Program Outlines

For the most current information on career and technical program offerings at SCC and SFCC, view our programs online at: <u>http://icatalog.ccs.spokane.edu/program/default.aspx</u>.

ACCOUNTING ASSISTANT/ACCOUNTING CLERK AAS, Certificate: SCC

As a paraprofessional in the accounting field, the accounting assistant analyzes and interprets the essential information about the operations of a business and contributes vitally to important policies and decisions.

An accounting assistant should have above–average aptitude for working with numbers and the ability to concentrate and communicate. Accounting affords a continuing challenge to creative, alert minds.

Students will earn an Accounting Clerk Certificate after completing the first three quarters of the AAS degree. All students graduating from this program must have a minimum grade of 2.0 in each of the accounting, economics and general business required courses. Students must also have a 2.0 cumulative minimum grade point average in all required courses in this program.

This degree is non-transferable to a four-year university. Students working toward the associate in arts degree for transfer to a four-year institution should consult individually with an adviser or counselor for planning the AA degree program. For information on AA degree requirements, refer to the Degree and Certificate Requirements section of the CCS catalog. More information on specific transfer programs can be found in the Academic Programs section of the CCS catalog.

AAS – Accounting Assistant

| BT BUS& | ter 151 152 101 103 | College Accounting I ¹ College and Career Strategies Intro to Business Basic Business Math and Electronic Calculators Total | 5 3 5 5 18 |
|--------------|-------------------------------------|--|-------------------------------|
| ACCT | uarte 141 152 204 | r QuickBooks College Accounting II ¹ Spreadsheet Design and Analysis Total | 5 5 5 15 |
| ACCT ACCT | rter 142 161 162 272 | Advanced QuickBooks Payroll Procedures Business Tax Accounting Business Correspondence ⁴ Total | 5 4 1 5 15 |
| ACCT | i arter 212 221 100 | Accounting Applications and Analysis ² Tax I: Individual Income Tax Fundamentals of Economics Total | 5 5 5 15 |
| | r ter 222 288 | Tax II: Taxation of Corporations, Partnerships and S Corps Cooperative Education Work Experience (No Seminar) | 5 2 |

| BUS& | 201 | Business Law Total | 5 12 |
|---|---|--|--|
| Sixth Qu ACCT BUS | arter 204 280 | Accounting Integration Human Relations in Business Business Electives ³ Total | 5 5 5 15 |
| 90 credit | s are i | required for the AAS | |
| Busines | | | - |
| BT | 160 | | 3 |
| BUS BUS | 100 217 | | 3 5 |
| CATT | 120 | | 2.5 |
| CATT | 238 | | 2.5 |
| CATT | 239 | | 2.5 |
| CATT | 241 | Microsoft Project | 2.5 |
| ECON& | 201 | | 5 |
| ECON& | 202 | Macro Economics | 5 |
| MMGT | 101 | | 5 |
| MMGT | 181 | | 1-5 |
| MMGT | 205 | 5 | 5 |
| MMGT MMGT | 223 243 | | 3 5 |
| ² This co ³ Select | ourse n course | es may be substituted with ACCT& 201 and nay be substituted with ACCT& 203. as from the list of approved business electiv counting department for additional options | es. |
| ² This cc ³ Select Please addition | ourse n course see a nal acc subst | nay be substituted with ACCT& 203. | es. and |
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| ² This cc ³ Select Please addition ⁴ May be instruct | ourse n course see a nal acc subst tor. t e – A | nay be substituted with ACCT& 203. es from the list of approved business electiv ccounting department for additional options counting co–op credits. tituted with BT 274; BT 105 or permission o | es. and f |
| These This cc Select Please addition May be instruct Certificat First Qua | ourse n course see a nal acc subst tor. te – A arter | nay be substituted with ACCT& 203. es from the list of approved business electiv ccounting department for additional options counting co–op credits. tituted with BT 274; BT 105 or permission o ccounting Clerk College Accounting I ¹ | es. and |
| ² This cc ³ Select Please additioi ⁴ May be instruct Certificat First Qua ACCT | ourse n course see a nal acc subst tor. te – Ac arter 151 | nay be substituted with ACCT& 203. es from the list of approved business electiv ccounting department for additional options counting co–op credits. tituted with BT 274; BT 105 or permission o ccounting Clerk College Accounting I ¹ College and Career Strategies | es. and f |
| These This cc Select Please addition May be instruct Certificat First Qua ACCT BT | ourse n course see a nal acc subst tor. te – Ac arter 151 152 | nay be substituted with ACCT& 203. es from the list of approved business electiv ccounting department for additional options counting co–op credits. tituted with BT 274; BT 105 or permission o ccounting Clerk College Accounting I ¹ College and Career Strategies Intro to Business Basic Business Math | es. and f 5 3 5 |
| This cc Select Please addition May be instruct Certificat First Qua ACCT BT BUS& | ourse n course see a anal acc subst tor. te – Ac arter 151 152 101 | nay be substituted with ACCT& 203. es from the list of approved business electiv ccounting department for additional options counting co–op credits. tituted with BT 274; BT 105 or permission o ccounting Clerk College Accounting I ¹ College and Career Strategies Intro to Business Basic Business Math and Electronic Calculators | es. and f 5 3 5 5 |
| This cc Select Please addition May be instruct Certificat First Qua ACCT BT BUS& | ourse n course see a anal acc subst tor. te – Ac arter 151 152 101 | nay be substituted with ACCT& 203. es from the list of approved business electiv ccounting department for additional options counting co–op credits. tituted with BT 274; BT 105 or permission o ccounting Clerk College Accounting I ¹ College and Career Strategies Intro to Business Basic Business Math | es. and f 5 3 5 |
| ² This cc ³ Select Please addition ⁴ May be instruct Certificat First Qua ACCT BT BUS& BUS Second (| ourse n course see a nal acc subst tor. te – Ac arter 151 152 101 103 Quarte | nay be substituted with ACCT& 203. es from the list of approved business electiv ccounting department for additional options counting co-op credits. tituted with BT 274; BT 105 or permission o ccounting Clerk College Accounting I ¹ College and Career Strategies Intro to Business Basic Business Math and Electronic Calculators Total | es. and f 5 3 5 5 18 |
| ² This cc ³ Select Please addition ⁴ May be instruct Certificat First Qua ACCT BUS& BUS Second Q ACCT | ourse n course see a nal acc subst tor. te – Ac arter 151 152 101 103 Quarte 141 | nay be substituted with ACCT& 203. es from the list of approved business electiv ccounting department for additional options counting co-op credits. tituted with BT 274; BT 105 or permission o ccounting Clerk College Accounting I ¹ College and Career Strategies Intro to Business Basic Business Math and Electronic Calculators Total er QuickBooks | es. and f 5 3 5 5 18 5 |
| ² This cc ³ Select Please addition ⁴ May be instruct Certificat First Qua ACCT BUS & BUS & Second C ACCT ACCT ACCT | Course n course see a nal acc subst tor. te – Ac arter 151 152 101 103 000000000000000000000000000000 | nay be substituted with ACCT& 203. es from the list of approved business electiv ccounting department for additional options counting co-op credits. tituted with BT 274; BT 105 or permission o ccounting Clerk College Accounting I ¹ College and Career Strategies Intro to Business Basic Business Math and Electronic Calculators Total er QuickBooks College Accounting II ¹ | es. and f 5 3 5 5 18 5 5 |
| ² This cc ³ Select Please addition ⁴ May be instruct Certificat First Qua ACCT BUS& BUS Second Q ACCT | ourse n course see a nal acc subst tor. te – Ac arter 151 152 101 103 Quarte 141 | nay be substituted with ACCT& 203. es from the list of approved business electiv ccounting department for additional options counting co-op credits. tituted with BT 274; BT 105 or permission o ccounting Clerk College Accounting I ¹ College and Career Strategies Intro to Business Basic Business Math and Electronic Calculators Total er QuickBooks | es. and f 5 3 5 5 18 5 |
| ² This cc ³ Select Please addition ⁴ May be instruct Certificat First Qua ACCT BUS& BUS& BUS Second Q ACCT ACCT BT | Course n course see a nal acc subst tor. te – Ac arter 151 152 101 103 Quarte 141 152 204 | nay be substituted with ACCT& 203. es from the list of approved business electiv ccounting department for additional options counting co-op credits. tituted with BT 274; BT 105 or permission o ccounting Clerk College Accounting I ¹ College and Career Strategies Intro to Business Basic Business Math and Electronic Calculators Total er QuickBooks College Accounting II ¹ Spreadsheet Design and Analysis | es. and f 5 3 5 5 18 5 5 5 5 5 |
| ² This cc ³ Select ⁴ Please addition ⁴ May be instruct Certificat First Qua ACCT BT BUS& BUS Second C ACCT BT BUS Second C ACCT BT Third Qu | Course n course see a nal acce subst tor. te – Ac arter 151 152 101 103 Quarte 141 152 204 arter | nay be substituted with ACCT& 203. es from the list of approved business electiv ccounting department for additional options counting co-op credits. tituted with BT 274; BT 105 or permission o ccounting Clerk College Accounting I ¹ College and Career Strategies Intro to Business Basic Business Math and Electronic Calculators Total fr QuickBooks College Accounting II ¹ Spreadsheet Design and Analysis Total | es. and f 5 3 5 5 18 5 5 5 18 |
| ² This cc ³ Select ⁴ Please addition ⁴ May be instruct Certificat First Qua ACCT BT BUS& BUS Second C ACCT BT BT Second C ACCT BT | Course n course see a nal acc subst tor. te – Ac arter 151 152 101 103 Quarte 141 152 204 arter 142 | nay be substituted with ACCT& 203. es from the list of approved business electiv ccounting department for additional options counting co-op credits. tituted with BT 274; BT 105 or permission o ccounting Clerk College Accounting I ¹ College and Career Strategies Intro to Business Basic Business Math and Electronic Calculators Total fr QuickBooks College Accounting II ¹ Spreadsheet Design and Analysis Total Advanced QuickBooks | es. and f 5 3 5 5 18 5 5 5 5 5 |
| ² This cc ³ Select ⁴ Please addition ⁴ May be instruct Certificat First Qua ACCT BUS Second Q ACCT BT BUS Second Q ACCT BT Third Qu ACCT ACCT | Course n course see a nal acce subst tor. te – Ac arter 151 152 101 103 Quarte 141 152 204 arter | nay be substituted with ACCT& 203. es from the list of approved business electiv ccounting department for additional options counting co-op credits. tituted with BT 274; BT 105 or permission o ccounting Clerk College Accounting I ¹ College and Career Strategies Intro to Business Basic Business Math and Electronic Calculators Total fr QuickBooks College Accounting II ¹ Spreadsheet Design and Analysis Total Advanced QuickBooks Payroll Procedures | es. and f 5 3 5 5 5 18 5 5 5 15 5 5 |
| ² This cc ³ Select ⁴ Please addition ⁴ May be instruct Certificat First Qua ACCT BT BUS& BUS Second C ACCT BT BT Second C ACCT BT | Course n course see a nal acc subst tor. te – Ac arter 151 152 101 103 Quarte 141 152 204 arter 142 161 | nay be substituted with ACCT& 203. es from the list of approved business electiv ccounting department for additional options counting co-op credits. tituted with BT 274; BT 105 or permission o ccounting Clerk College Accounting I ¹ College and Career Strategies Intro to Business Basic Business Math and Electronic Calculators Total fr QuickBooks College Accounting II ¹ Spreadsheet Design and Analysis Total Advanced QuickBooks | es. and f 5 3 5 5 18 5 5 5 15 5 4 |
| ² This cc ³ Select ⁴ Please addition ⁴ May be instruct Certificat First Qua ACCT BT BUS& BUS Second C ACCT BT BUS Second C ACCT BT BUS | Course n course see a nal acce subst tor. te – Ac arter 151 152 101 103 0 uarter 141 152 204 arter 142 161 162 | nay be substituted with ACCT& 203. es from the list of approved business electiv ccounting department for additional options counting co-op credits. tituted with BT 274; BT 105 or permission o ccounting Clerk College Accounting I ¹ College and Career Strategies Intro to Business Basic Business Math and Electronic Calculators Total r QuickBooks College Accounting II ¹ Spreadsheet Design and Analysis Total Advanced QuickBooks Payroll Procedures Business Tax Accounting | es. and f 5 3 5 5 5 5 18 5 5 5 15 5 4 1 |
| Thisse This cc Select Please addition May be instruct Certificat First Qua ACCT BT BUS& BUS Second C ACCT BT Third Qu ACCT BT Third Qu ACCT BT | arter 142 162 162 162 162 163 163 163 163 164 165 164 165 164 165 164 165 165 165 165 165 165 165 165 165 165 | nay be substituted with ACCT& 203. es from the list of approved business electiv ccounting department for additional options counting co-op credits. tituted with BT 274; BT 105 or permission o ccounting Clerk College Accounting I ¹ College and Career Strategies Intro to Business Basic Business Math and Electronic Calculators Total fr QuickBooks College Accounting II ¹ Spreadsheet Design and Analysis Total Advanced QuickBooks Payroll Procedures Business Tax Accounting Business Correspondence ² | es. and f 5 3 5 5 18 5 5 5 18 5 5 5 15 5 4 1 5 |

48 credits are required for the Certificate

¹ These courses may be substituted with ACCT& 201 and 202. ² May be substituted with BT 274, BT 105 or permission of

² May be substituted with BT 274; BT 105 or permission of instructor.

ACCOUNTING PRE-MAJOR AA-DTA, Associate in Business DTA/MRP: SCC/SFCC

The accountant analyzes and interprets the essential information about the operations of a business and contributes to important policies and decisions. Accountants are also asked to interpret tax laws and analyze how these laws may influence a business' future decisions.

An accountant should have above–average aptitude for working with numbers and the ability to concentrate and communicate. Accounting affords a continuing challenge to creative alert minds.

AA-DTA

| Suggested Courses to Consider ' Total | 90 90 |
|--|-----------------|
| 90 credits are required for the AA–DTA | |
| Associate in Business DTA/MRP | |
| Suggested Courses to Consider ¹ | 90 |
| Total | 90 |

90 credits are required for the Associate in Business DTA/MRP

¹ Consult a counselor or academic adviser for recommended courses specific to the student's choice of transfer institution.

ADDICTION STUDIES AAS, Certificate: SFCC

SFCC's Addiction Studies program provides two options for obtaining the educational requirements to become a Chemical Dependency Professional (CDP). Washington State requires an associate's degree in human services or related field; **or** successful completion of 90 quarter college credits. At least 45 quarter credits must be in courses relating to the chemical dependency profession and shall include specific competencies defined by the State. SFCC offers the approved educational programs:

- AAS Degree: A two-year educational training program for people who do not have at least 45 prior college credits.
- Certificate Program: A one-year program for students who already have a minimum of 45 college-level credits, and need specific chemical dependency courses.

Students will be required to have a grade of 2.0 or better in each Addiction Studies (AS) course in order to graduate from the program.

AAS

| First Qua | arter | | |
|-----------|--------|---|----|
| AS | 131 | Survey of Addictions | 5 |
| AS | 176 | Addiction Counseling Techniques | 5 |
| AS | 182 | Cultural Diversity; Risk Intervention | |
| | | for Health/HIV | 5 |
| | | Total | 15 |
| Second (| Quarte | er | |
| AS | 277 | Group Facilitation for Addiction Treatment | 5 |
| CAPPS | 100 | Beginning Computer Skills | 2 |
| ENGL& | 101 | English Composition I | 5 |
| IS | 120 | Business Computer Use | 3 |
| | | Total | 15 |
| Third Qu | arter | | |
| AS | 275 | Physiological Actions of Alcohol and Drugs | 5 |
| BUS | 123 | Practical Business Math Applications ² | 5 |

| PSYC& | 100 | General Psychology Total | 5 15 |
|----------|--------|---|----------------|
| Fourth Q | uartei | | |
| AS | 141 | Law, Ethics, and Professional Development for Addiction Counseling | 5 |
| AS | 221 | Treatment Theories for Addictions | 5 |
| AS | 279 | Case Management I: Screening, Diagnosis, Assessment, and ASAM | 5 |

15

15

Fifth Quarter

| Fifth Qua | arter | | |
|-----------|-------|--|----|
| AS | 172 | Family Systems and Adolescent Treatment | |
| | | in Addictions | 5 |
| AS | 280 | Case Management 2: Treatment Planning | |
| | | and Continuing Care | 5 |
| AS | 281 | Practicum I ¹ | 5 |
| | | Total | 15 |
| Sixth Qu | arter | | |
| AS | 282 | Practicum II ¹ | 5 |
| AS | 290 | Co-Occurring Behavioral Health Disorders | 5 |
| PSYC& | 200 | Lifespan Psychology | 5 |

90 credits are required for the AAS

Total

Total

- ¹ Practicum hours must be performed at an approved chemical dependency field site.
- ² MATH& 107 may be substituted for BUS 123.
- ³ Students will be required to have a grade of 2.0 or better in each Addiction Studies (AS) course in order to graduate from the program.

Certificate

The one year certificate program offers a certificate from our college, which is not a substitute for state certification. The one year curriculum assumes that students have completed other college work. The state of Washington has a minimum requirement of 90 credit hours of education of which this certificate is only a part. You will need to demonstrate to the Department of Health that, in addition to the certificate courses listed here, you have a MINIMUM total of 90 approved credit hours, half of which are the certificate courses.

Students will be required to have a grade of 2.0 or better in each Addiction Studies (AS) course in order to graduate from the program.

Prerequisites:

| – AS – BUS – ENGL& – PSYC& | | Survey of Addictions Practical Business Math English Composition I General Psychology | |
|-------------------------------------|-----|--|---|
| AS | 141 | Law, Ethics, and Professional Development for Addiction Counseling | 5 |
| AS | 172 | Family Systems and Adolescent Treatment in Addictions | 5 |
| AS | 176 | Addiction Counseling Techniques | 5 |
| AS | 182 | Cultural Diversity; Risk Intervention for Health/HIV | 5 |
| AS | 221 | Treatment Theories for Addictions | 5 |
| AS | 275 | Physiological Actions of Alcohol and Drugs | 5 |
| AS | 277 | Group Facilitation for Addiction Treatment | 5 |
| AS | 279 | Case Management I: Screening, Diagnosis, Assessment, and ASAM | 5 |
| AS | 280 | Case Management 2: Treatment Planning and Continuing Care | 5 |
| AS | 281 | Practicum I ¹ | 5 |
| AS | 290 | Co-Occurring Behavioral Health Disorders | 5 |
| | | | |

| PSYC& | 200 | Lifespan Psychology | |
|-------|-----|---------------------|--|
| | | Total | |

60 credits are required for the Certificate

Practicum hours must be performed at an approved chemical dependency field site.

5

60

Students will be required to have a grade of 2.0 or better in each Addiction Studies (AS) course in order to graduate from the program.

ADMINISTRATIVE ASSISTANT AAS: SCC

The Administrative Assistant degree is a two-year professional program. Students may participate in online or on-ground classes. The program offers expert business technology instruction giving students the diversified training and background needed to hold positions of responsibility and importance in many areas of the business world. The Administrative Assistant degree gives students a technical background through completion of computer application courses, provides students an understanding of professional responsibilities, and offers additional on-the-job training. Students develop competencies in office procedures; software applications; business writing and presentations; accounting and business math; organizational and supervisory skills; office, time, and calendar management; desktop publishing and project management. Students practice customer relations and the "soft" skills employers demand. Students will also have a strong foundation in Microsoft Office and other commonly used business software applications. Students will complete capstone courses which will integrate classroom learning into "real-world" office situations.

In order to earn an Administrative Assistant AAS degree, a student must maintain a 2.0 GPA in all individual courses.

AAS

| I II SL QUD | rter | | |
|---|--|---|---|
| BT | 105 | Basic Grammar for Business II | 5 |
| BT | 106 | Computing Essentials | 5 |
| BT | 152 | College and Career Strategies | 3 |
| CATT | 102 | Introduction to Outlook Total | 2.5 15.5 |
| | | lotal | 15.5 |
| Second C | Quarte | r | |
| BT | 127 | Human Relations | |
| | | and Professional Development | 3 |
| BT | 196 | | 1 |
| BUS | 103 | | 5 |
| CATT | 190 | and Electronic Calculators ¹ Introduction to PowerPoint | 5 2.5 |
| MMGT | 223 | | 2.5 |
| | 220 | Total | 14.5 |
| | | | |
| Third Qu | | | |
| DT | | Manal Das sessions | |
| BT | 165 | Word Processing | 5 |
| BT | 204 | Spreadsheet Design and Analysis | 5 |
| | | Spreadsheet Design and Analysis Business Correspondence ¹ | 5 5 |
| BT | 204 | Spreadsheet Design and Analysis | 5 |
| BT | 204 272 | Spreadsheet Design and Analysis Business Correspondence ¹ Total | 5 5 |
| BT BT | 204 272 | Spreadsheet Design and Analysis Business Correspondence ¹ Total | 5 5 15 3 |
| BT BT Fourth Q BT BT | 204 272 uarter | Spreadsheet Design and Analysis Business Correspondence ¹ Total | 5 5 15 3 5 |
| BT BT Fourth Q BT BT BT | 204 272 uarter 206 231 273 | Spreadsheet Design and Analysis Business Correspondence ¹ Total Electronic Records Management Office Procedures Business Research and Report Writing | 5 5 15 3 5 5 |
| BT BT Fourth Q BT BT | 204 272 uarter 206 231 | Spreadsheet Design and Analysis Business Correspondence ¹ Total Electronic Records Management Office Procedures Business Research and Report Writing Microsoft Access I | 5 5 15 3 5 2.5 |
| BT BT BT BT BT CATT | 204 272 uarter 206 231 273 122 | Spreadsheet Design and Analysis Business Correspondence ¹ Total Electronic Records Management Office Procedures Business Research and Report Writing | 5 5 15 3 5 5 |
| BT BT BT BT BT CATT Fifth Qua | 204 272 uarter 206 231 273 122 irter | Spreadsheet Design and Analysis Business Correspondence ¹ Total Electronic Records Management Office Procedures Business Research and Report Writing Microsoft Access I Total | 5 5 15 3 5 2.5 15.5 |
| BT BT BT BT BT CATT | 204 272 uarter 206 231 273 122 | Spreadsheet Design and Analysis Business Correspondence ¹ Total Electronic Records Management Office Procedures Business Research and Report Writing Microsoft Access I Total Current Trends in Technology | 5 5 15 3 5 2.5 |
| BT BT BT BT BT CATT Fifth Qua BT | 204 272 uarter 206 231 273 122 irter 251 | Spreadsheet Design and Analysis Business Correspondence ¹ Total Electronic Records Management Office Procedures Business Research and Report Writing Microsoft Access I Total | 5 5 15 3 5 2.5 15.5 5 5 |

CATT 128 Desktop Publishing 5 17.5 Total Sixth Quarter Job Preparation Techniques 3 BT 160 Integrated Office Applications 5 BT 263 Administrative Professional Internship 2 BT 285 CATT 241 Microsoft Project 2.5 Approved Electives ² 5

17.5

95.5 credits are required for the AAS

Total

| Approve | d Elec | tives | |
|---------|--------|---|-----|
| ACCT | 141 | QuickBooks | 5 |
| ACCT | 151 | College Accounting I | 5 |
| ACCT& | 201 | Prin of Accounting I | 5 |
| BT | 104 | Basic Grammar for Business I | 5 |
| BT | 251 | Current Trends in Technology | 5 |
| BT | 274 | Business Writing for the Web | 5 |
| BUS | 280 | Human Relations in Business | 5 |
| CATT | 123 | Microsoft Access II | 2.5 |
| CATT | 191 | Advanced PowerPoint | 2.5 |
| CATT | 220 | Advanced Microsoft Word I | 2.5 |
| CATT | 221 | Advanced Microsoft Word II | 2.5 |
| CATT | 222 | Advanced Microsoft Access I | 2.5 |
| CATT | 223 | Advanced Microsoft Access II | 2.5 |
| CATT | 238 | Advanced Microsoft Excel I | 2.5 |
| CATT | 239 | Advanced Microsoft Excel II | 2.5 |
| CATT | 242 | Advanced Microsoft Project | 2.5 |
| CMST | 127 | Leadership Development | 3-5 |
| CMST& | 210 | Interpersonal Communication | 5 |
| CMST | 287 | Business and Professional Communication | 3-5 |
| ECON | 100 | Fundamentals of Economics | 5 |
| MMGT | 125 | Social Media Marketing | 5 |
| MMGT | 212 | Retailing | 5 |
| MMGT | 244 | Introduction to Lean Six Sigma | 2.5 |

May be substituted with BT 274.

Select course from the list of approved electives.

ADMINISTRATIVE ASSISTANT AAS: SFCC

The Administrative Assistant program is a two-year program of study. Students may participate in online or on-ground classes. At the core of every business are administrative support personnel. Students completing this degree will be proficient in computer applications and learn the latest communication tools, procedures, and practices that are essential in today's business environment.

Students completing this degree will be competent in the following areas: oral and written communications, meeting and document preparation, travel arrangements, desktop publishing, bookkeeping procedures, spreadsheets, calendar management, office management, and survey design. Students will also have a strong foundation in Word, Excel, Access, Outlook, and PowerPoint and will have the opportunity to document their competency. Students will complete capstone courses which will integrate classroom learning into "real-world" office situations.

Students will have the opportunity to bridge the gap between the classroom and the business world by participating in a work experience internship as well as a model office simulation. Students may begin in entry-level positions and work toward advancement and promotion.

| AAS | | | |
|------------|------|--------------------------------|---|
| First Quar | rter | | |
| BT | 101 | Keyboarding | 5 |
| BT | 155 | Records Information Management | 3 |

| CAPPS GENST | 100 114 | Beginning Computer Skills Thriving In College Computation Elective Total | 2 2 3-5 15–17 |
|---|--------------------------|--|------------------------------------|
| Second Q | uarte | r | |
| BT CAPPS CAPPS CAPPS | 102 151 171 180 | Excel I PowerPoint I | 5 2 2 2 5 16 |
| Third Qua | arter | | |
| BT BT BT | 103 231 272 | Formatting Office Procedures Business Correspondence Computation Elective Total | 5 5 3-5 18–20 |
| Fourth Qu | | | |
| BT BT CAPPS | 232 258 152 | Office Procedures II Desktop Publishing Excel II Human Relations Leadership Elective Total | 5 2 5 17 |
| Fifth Qua | | | _ |
| BT BT BT CAPPS | 235 255 260 161 | Machine Transcription ¹ Business Productivity Tools Administrative Office Management Access I Total | 5 3 5 2 15 |
| Sixth Qua | arter | | |
| BT BT BT BT | 160 201 234 285 | Job Preparation Techniques Information Processing Administrative Professional Practicum Administrative Professional Internship Total | 3 5 2 15 |
| 96-100 cr | edits | are required for the AAS | |
| Communi | icatio | n Elective | |
| BT ENGL& | 107 101 | Business Communications English Composition I | 5 5 |
| Computat | | | |
| ACCT ACCT& BUS BUS BUS MATH& | 201 122 123 | Fundamental Bookkeeping Procedures Prin of Accounting I Practical Business Math Practical Business Math Applications Intermediate Business Math I Math in Society | 3 5 3 5 3 5 5 |
| Human P | olatio | ns Leadership Elective | |
| BUS CMST& | 280 210 | Human Relations in Business Interpersonal Communication | 5 5 |
| ¹ BT 235 Practice | | be substituted with BS 236 Virtual Business | 3 |
| ADMINIST AAS: SCO | | IVE OFFICE MANAGEMENT | |
| | | | |

The Administrative Office Management program is an associate degree program that prepares students to assume positions as office managers, supervisors, or as assistants to top executives. Students will develop administrative skills necessary to participate as part of the management team; assist in planning, organizing, and controlling information related activities; and in leading or directing people to attain the objectives of the

organization. They may handle a wide range of daily responsibilities including the supervision of support services.

This program is recommended to experienced office staff as well as entry-level office workers who are looking to increase their potential for promotion. Graduates with this degree receive training in a variety of office management functions including those in communications, information resources, and management.

In order to earn an Administrative Office Management AAS degree, a student must maintain a 2.0 GPA in all individual courses.

| AAS First Qua BT BT CATT CATT | rter 165 272 102 190 | Word Processing Business Correspondence ² Introduction to Outlook Introduction to PowerPoint Total | 5 5 2.5 2.5 15 |
|---|---|--|--|
| Second C | Quarte | r | |
| BT BT CATT | 231 251 128 | Office Procedures Current Trends in Technology Desktop Publishing Total | 5 5 5 15 |
| Third Qua | arter | | |
| ACCT BT BT CATT | 151 204 206 122 | College Accounting I ¹ Spreadsheet Design and Analysis Electronic Records Management Microsoft Access I Total | 5 5 2.5 15.5 |
| Fourth Q BT BT BUS CATT | uarter 205 273 217 241 | Database Design and Analysis Business Research and Report Writing | 5 5 2.5 17.5 |
| | | lotui | |
| Fifth Qua BT BT CATT MMGT MMGT | rter 260 280 242 244 256 | Administrative Office Management Project Management for the Office Advanced Microsoft Project Introduction to Lean Six Sigma Lean Leadership Total | 5 2.5 2.5 2.5 5 17.5 |
| Sixth Qua BT BT BT | 160 263 285 | Job Preparation Techniques Integrated Office Applications Administrative Professional Internship Electives Total | 3 5 2 5 15 |
| 95.5 credits are required for the AAS | | | |
| | | | |

| Electives | 5 | | |
|-----------|-----|---|-----|
| ACCT | 141 | QuickBooks | 5 |
| ACCT& | 201 | Prin of Accounting I | 5 |
| BT | 274 | Business Writing for the Web | 5 |
| BUS& | 101 | Intro to Business | 5 |
| BUS& | 201 | Business Law | 5 |
| BUS | 280 | Human Relations in Business | 5 |
| CATT | 191 | Advanced PowerPoint | 2.5 |
| CMST | 127 | Leadership Development | 3-5 |
| CMST& | 210 | Interpersonal Communication | 5 |
| CMST | 287 | Business and Professional Communication | 3-5 |
| ECON | 100 | Fundamentals of Economics | 5 |
| MMGT | 125 | Social Media Marketing | 5 |

MMGT 212 Retailing 243 Fundamentals of Project Management MMGT

May be substituted with ACCT& 201.

- 2 May be substituted with BT 274.
- 3 May be substituted with MATH 201 or BUS 104.
- 4 May be substituted with MMGT 243 for BT 280 and CATT 242.

ADMINISTRATIVE/COMPUTER SPECIALIST AAS: SFCC

The Administrative Computer Specialist is a two-year program of study. Students may participate in online or on-ground classes. The beginning classes provide students with computer and information technology concepts and skills. Students also gain a foundation of business practices, marketing, accounting, and communication skills. Advanced classes continue to develop skills in Word, Excel, Access, PowerPoint, and Outlook. Additional course work includes studies in web design, networking, troubleshooting, and operating systems.

This program is designed to prepare students for careers as management information specialists, software support assistants, technicians, business assistants, and sales associates for hardware, software, and digital devices.

AAS

| First Qua | arter | | |
|------------------------------|--------------------------|---|---|
| BT CAPPS | 101 100 | Keyboarding Beginning Computer Skills Communication Elective Computation Elective Total | 5 2 5 3 15 |
| Second | Quarte | er | |
| BUS& CAPPS CAPPS IS | 101 141 171 103 | Intro to Business Word I PowerPoint I Information Technology Fundamentals Total | 5 2 2 5 14 |
| Third Qu | | | |
| BT CAPPS CAPPS | 272 151 152 | Business Correspondence Excel I Excel II Computation Elective Human Relations Leadership Elective Total | 5 2 2 3-5 5 17–19 |
| Fourth Q | uartei | r | |
| BT | 258 | Desktop Publishing | 5 |
| CAPPS CAPPS | 161 162 | Access I Access II | 2 |
| IS | 144 | Programming Fundamentals | 2223 |
| IS | 162 | Data Communications and Networks Total | 3 15 |
| Fifth Qua | arter | | |
| BT BT | 255 260 | Business Productivity Tools | 3 |
| CAPPS | 260 180 | Administrative Office Management Outlook | 5 |
| IS | 262 | Network Management Total | 5 15 |
| Sixth Qu | arter | | |
| BT | 160 | Job Preparation Techniques | 3 |
| BT IS | 201 210 | Information Processing Internet Programming I | 5 |
| | | Internship/Practicum Elective Total | 3-5 14–16 |

5

5

| Commur | nicatio | n Elective | |
|-----------|---------|--|---|
| BT | 107 | Business Communications | 5 |
| ENGL& | 101 | English Composition I | 5 |
| Computa | ation E | Elective | |
| ACCT | 103 | Fundamental Bookkeeping Procedures | 3 |
| ACCT& | | Prin of Accounting I | 5 |
| BUS | 122 | Practical Business Math | 3 |
| BUS | 123 | Practical Business Math Applications | 5 |
| BUS | 124 | Intermediate Business Math I | 3 |
| MATH& | 107 | Math in Society | 5 |
| Human F | Relatio | ons Leadership Elective | |
| BUS | 280 | Human Relations in Business | 5 |
| CMST& | 210 | Interpersonal Communication | 5 |
| Internshi | ip/Pra | cticum Elective | |
| BT | 234 | Administrative Professional Practicum | 5 |
| BT | 285 | Administrative Professional Internship | 2 |
| AEROSP | ACE | COMPOSITE TECHNICIAN | |

Certificate: SCC

This program provides a common core of courses that all students enroll in before entering the job-specific coursework. The knowledge and skills gained through this program are those required for entry-level positions as aerospace composite technicians. The certificate also provides an opportunity for existing aircraft mechanics and service technicians to expand their education in the field of composite assembly and repair. Courses in this certificate are not FAA approved.

Students in the Aerospace Composite Technician program may transfer into either an A.A.S. degree or certificate program listed below.

| Aviation Maintenance Technology Airframe Maintenance General Aircraft/Powerplant Maintenance Computer Aided Design and Drafting (CAD) Electronics Engineering Technician–Avionics Electrical Maintenance and Automation Machinist–Computer Numerical Control (CNC) Mechanical Engineering Technology Hydraulic and Pneumatic Automation Technology | | | | |
|--|------------|--|------------------|--|
| Certificat | е | | | |
| First Qua | - | | | |
| APLED | 112 | Applied Mathematics ¹ | 2 | |
| APLED | 121 | Applied Written Communication ¹ | 4 | |
| CAD CAD | 120 134 | Basic Blueprint Reading Applied Precision Measuring | 2 3 | |
| MACH | 247 | CNC Theory | 5 | |
| | 271 | Total | 16 | |
| Second G | Quarte | r | | |
| APLED | 112 | Applied Mathematics ¹ | 3 | |
| ARCFT | 123 | Composite Technology | 5 | |
| CAD | 109 | Introduction to Computer Aided Drafting | 5 2 2 5 | |
| CAD | 247 | Shop Practices | 2 | |
| MACH | 248 | | 5 17 | |
| | | Total | 17 | |
| Third Qua | arter | | | |
| APLED | 125 | Employment Preparation ¹ | 3 | |
| ARCFT | 131 | Composite Structure Assembly | 5 | |
| ARCFT CAD | 132 241 | Applied Manufacturing Project CAD Solid Modeling/Graphics 1 | 2 3 | |
| MACH | 138 | Manufacturing Standards/Quality | 3 | |
| | 100 | Total | 16 | |
| | | | - | |

49 credits are required for the Certificate

¹ This related education requirement may be met by any course or combination of courses approved by the department dean.

AGRICULTURE BUSINESS AAS, Certificate: SCC

The Agriculture Business program is designed to train students for entry–level employment in the agricultural chemical and fertilizer industry as well as grain and farming operations. Program graduates are qualified for advancement into sales, service, field representative and branch management positions.

The following is a typical student schedule, individual student schedules may differ slightly depending on course availability. Courses may only be offered in the quarter indicated. It is recommended that students work closely with the program adviser when planning classes.

AAS

First Quarter AGHRT 102 Pesticides and Fertilizer Application Equipment 2 Principles of Pest Management 5 AGHRT 104 AgHort Occupational Preparation¹ 1 AGHRT 184 Intro to Business BUS& 101 5 English Composition I² ENGL& 101 5 Total 18 Second Quarter **Basic Crop Science** 5 AGHRT 101 AGHRT 185 AgHort Occupational Preparation¹ 1 **Basic Business Math** BUS 103 and Electronic Calculators 5 110 Plant Biology ENVS 5 Total 16 **Third Quarter** AGHRT Weed Biology and Control 5 225 Business Mathematics BUS 104 5 5 5 Introduction to Computer Applications³ CIS 110 ENVS 210 Environmental Soil Science Total 20 Fourth Quarter Plant Problem Diagnosis 5 AGHRT 230 AGHRT 232 Pest Management Project 2 Introduction to Communication ⁴ 5 CMST& 101 WATER 109 Introduction to Water Resources² 5 Total 17 **Fifth Quarter** AGHRT 219 Soil Management and Fertility 5 Human Relations in Business² BUS 280 5 Composition II 5 5 ENGL& 102 Total 15 Sixth Quarter College Accounting I⁶ 5 ACCT 151 ECON 100 Fundamentals of Economics 7 5 Supervised Volunteer Experience MMGT 100 1 Principles of Management 5 MMGT 101 Total 16 102 credits are required for the AAS

- ¹ AGHRT 185 and 184 are related education requirements.
- ² This related education requirement may be met by any course or combination of courses approved by the instructor.

- ³ Keyboard skills are required.
- ⁴ CMST& 101 may be substituted with CMST 287.
- ⁵ ENGL& 102 may be substituted with ENGL& 235 or BT 273.
- ⁶ This course may be substituted with ACCT& 201.
- ECON may be substituted with a higher level ECON course.

Certificate

| First Qua | rter | | |
|-----------|--------|--|----|
| AGHRT | 102 | Pesticides and Fertilizer | |
| | | Application Equipment | 2 |
| AGHRT | 104 | Principles of Pest Management | 5 |
| AGHRT | 184 | AgHort Occupational Preparation ¹ | 1 |
| BUS& | 101 | Intro to Business | 5 |
| ENGL& | 101 | English Composition I ² | 5 |
| | | Total | 18 |
| Second Q | Juarte | er . | |
| AGHRT | 101 | Basic Crop Science | 5 |
| AGHRT | - | | 1 |
| BUS | 103 | 5 I I | - |
| | | and Electronic Calculators | 5 |
| ENVS | 110 | Plant Biology | 5 |
| | | Total | 16 |
| Third Qu | arter | | |
| AGHRT | 225 | Weed Biology and Control | 5 |
| BUS | 104 | e , | 5 |
| CIS | 110 | | 5 |
| ENVS | 210 | | 5 |
| • | | Total | 20 |
| | | | |

54 credits are required for the Certificate

AGHRT 185 and 184 are related education requirements.

- ² This related education requirement may be met by any course or combination of courses approved by the instructional dean.
- ³ Keyboard skills are required.

Spray Technician

| First Quarter | | | |
|---------------|-----------------------------------|---|--|
| 56 Eq | uipment Operation and Maintenance | 2 | |
| 02 Pe | sticides and Fertilizer | | |
| Ар | plication Equipment ¹ | 2 | |
| 04 Pri | nciples of Pest Management | 5 | |
| То | tal | 9 | |
| | 56 Eq 02 Pe Ap 04 Pri | F Equipment Operation and Maintenance Pesticides and Fertilizer Application Equipment ¹ Principles of Pest Management Total | |

9 credits are required for the Certificate

¹ Students are advised to check with the instructional dean to determine which quarter this course will be offered.

AGRICULTURE PRE-MAJOR AA-DTA: SCC

Agriculture is one of the biggest businesses in the United States as well as Washington State. Although training in agriculture provides a good background for successful modern farming, it also prepares young men and women for several hundred different kinds of occupations having to do with agribusiness, technical and professional work in teaching, research and extension with state, federal, and private agencies.

AA-DTA

| Suggested Courses to Consider ¹ | 90 |
|--|----|
| Total | 90 |

90 credits are required for the AA-DTA

¹ Consult a counselor or academic adviser for recommended courses specific to student's choice of transfer institution.

ANTHROPOLOGY PRE-MAJOR AA-DTA: SCC/SFCC

Anthropology is the science of humans. It studies humans in relation to their distribution, origin, classification, culture, physical character, environment, and social relations. It strives to understand all humans and give us a better awareness of ourselves.

AA-DTA

| Suggested Courses to Consider ¹ | 90 |
|--|----|
| Total | 90 |

90 credits are required for the AA-DTA

¹ Consult a counselor or academic adviser for recommended courses specific to student's choice of transfer institution.

ARCHITECTURAL TECHNOLOGY AAS, AAS–T, Certificate: SCC

The Architectural Technology program prepares students to become CAD drafters for the building design industry. Students focus on gaining proficiency with Computer Aided Drafting (CAD), 3–D modeling and Building Information Modeling (BIM) applications utilizing principles of design, the design process, building codes and building materials as they relate to building projects. This program prepares the drafter to translate ideas, rough sketches, specifications, calculations and existing drawings into drawings used within each phase of the design and construction process.

Students enter the program in the fall quarter. Program classes are typically held 7:30 a.m. -2:30 or 3:30 pm, Monday through Thursday. Please note that the classes listed below are intended for program students only. Other students are only allowed to register upon the approval of the instructor after prerequisites have been met. Students are expected to do a significant amount of reading and should be able to work at a computer for seven hours per day.

The first year consists of developing residential building design drawings and documents used by architects and building design engineers. Students use the most commonly used software utilized in the building design industry to gain proficiency in 2-D and 3-D Computer Aided Drafting (CAD). In addition, the first year consists of manual drafting, orthographic projections, freehand sketching, presentation graphics (isometric and perspective pictorial drawing), light construction principles (materials and methods), use of drafting expressions, international residential codes and sustainability issues. Emphasis is placed on architectural construction documents, which include site plans, floor plans, roof plans, footing and foundation plans, framing plans, exterior elevations, building and wall sections, window and door schedules, stair design, interior elevations, details and plumbing, HVAC, electrical and lighting plans. Graphic representation using computer software is used in the production of documents of the common phrases of architectural design including programming, schematic design, design development and construction documents. Utilization of the above is finalized in the development of residential working drawings.

Students will receive a Residential Architectural Technology Certificate after completing the first three quarters of the AAS degree. Prior to taking courses in this program, students in this program who intend to further their education at a university should consult an academic adviser at SCC or their future university to determine which of the courses in this program are transferable to their intended university. Students who want to continue on in the second year will be permitted to do so and upon successful completion of the second year, will receive an AAS degree. Additionally, students who want an AAS–T transfer degree may take five additional SCC courses and are eligible to apply for acceptance into Washington State University Architecture program with a junior standing. A 3.0 GPA or higher is required in all courses for acceptance at WSU. Prior to taking courses in this program, students in this program who intend to further their education at a university should consult an academic adviser at SCC or their future university.

The second year consists of developing architectural working drawings using Computer Aided Drafting (CAD) and Building Information Modeling (BIM) related to commercial building design. Class projects will be developed from a preliminary design utilizing drafting techniques, standards and practices of the profession, including office procedure knowledge, use of building materials; structural framing systems as used in the building industry and study of the International Building Code.

AAS

| First Qua | rter | | |
|------------|---------|---|-----|
| ARCHT | 112 | Introduction to Architectural Drafting | 5 |
| ARCHT | 120 | Residential Architecture Theory ¹ | 5 |
| ARCHT | 126 | Introduction to Computer Aided Drafting | 5 |
| | | Total | 15 |
| Second G | Quarte | | |
| ARCHT | 114 | Architectural Math ² | 3 |
| ARCHT | 122 | Architectural Design 1 ¹ | 7 |
| ARCHT | 130 | Residential Building Materials ¹ | 4 |
| ARCHT | 134 | Electrical and Mechanical Systems ¹ | 4 |
| | | Total | 18 |
| Third Qua | | | |
| ARCHT | 124 | Advanced Architectural Math ² | 2 |
| ARCHT | 125 | Residential Building Codes ¹ | 2 |
| ARCHT | 132 | Introduction to Construction Documents/CAD | |
| ARCHT | 139 | Delineation | 5 |
| | | Total | 17 |
| Fourth Q | uarter | · | |
| ARCHT | 238 | Introduction to Commercial Drafting/Design | 6 |
| ARCHT | 242 | Commercial Construction Documents/CAD | 4 |
| ARCHT | 246 | Commercial Architecture Theory | 5 |
| | | Total | 15 |
| Fifth Qua | rter | | |
| ARCHT | 225 | Portfolio | 1 |
| ARCHT | 240 | Commercial Building Codes | 3 |
| ARCHT | 250 | Introduction to Commercial Building Materials | s 4 |
| ARCHT | 252 | Advanced Commercial Construction | |
| | | Documents/CAD | 8 |
| | | Total | 16 |
| Sixth Qua | arter | | |
| ARCHT | 215 | Issues in Sustainable Architecture | 5 |
| ARCHT | 262 | Electrical Mechanical Systems | |
| | | Application/CAD ³ | 6 |
| ARCHT | 263 | Advanced Commercial Building Materials ⁴ | 4 |
| | | Total | 15 |
| 96 credits | s are r | required for the AAS | |

ElectiveARCHT266Cooperative Education Seminar1-2ARCHT267Cooperative Education Work Experience1-18

¹ This related education requirement may be met by any course or combination of courses approved by the instructional dean.

² ARCHT 114 and ARCHT 124 may be substituted with COMPASS scores of M2=77, M3=60, and M4=44. Students meeting these test score requirements and seeking Prior Learning Assessment evaluation should work with their instructor and the Prior Learning Assessment area for credit evaluation.

- ³ Select ARCHT 262 for either 6 credits and no elective credits or 2–4 credits with the remainder of the 6 credits from the elective group consisting of: ARCHT 266,267 for a total of 15 required credits for the sixth guarter.
- ⁴ ARCHT 266 and ARCHT 267 or ARCHT 288 (no seminar) may be substituted for one or more of these courses with permission of the instructor.

AAS-T

| First Qua | rter | | |
|------------|--------|---|-----|
| ARCHT | 112 | Introduction to Architectural Drafting | 5 |
| ARCHT | 120 | Residential Architecture Theory | 5 |
| ARCHT | 126 | Introduction to Computer Aided Drafting | 5 |
| | • | Total | 15 |
| | | | |
| Second C |)uarte | r | |
| ARCHT | 122 | Architectural Design 1 | 7 |
| ARCHT | 130 | Residential Building Materials | 4 |
| ARCHT | 130 | | 4 |
| | | Electrical and Mechanical Systems | - |
| ART& | 100 | Art Appreciation | 5 |
| | | Total | 20 |
| TUINO | | | |
| Third Qua | | | ~ |
| ARCHT | 125 | Residential Building Codes | 2 |
| ARCHT | 132 | Introduction to Construction Documents/CAD | |
| ARCHT | 139 | Delineation | 5 |
| MATH& | 141 | Precalculus I ¹ | 5 |
| | | Total | 20 |
| | | | |
| Fourth Q | | | |
| ARCHT | 238 | Introduction to Commercial Drafting/Design | 6 |
| ARCHT | 242 | Commercial Construction Documents/CAD | 4 |
| ARCHT | 246 | Commercial Architecture Theory | 5 |
| PHYS | 101 | General Physics | 5 |
| | | Total | 20 |
| | | | |
| Fifth Qua | rter | | |
| ARCHT | 225 | Portfolio | 1 |
| ARCHT | 240 | Commercial Building Codes | 3 |
| ARCHT | 250 | Introduction to Commercial Building Materials | - |
| ARCHT | 252 | Advanced Commercial Construction | 5 4 |
| / | 202 | Documents/CAD | 8 |
| ENGL& | 101 | English Composition I | 5 |
| LINGLO | 101 | Total | 21 |
| | | lotal | 21 |
| Sixth Qua | arter | | |
| ARCHT | 215 | Issues in Sustainable Architecture | 5 |
| ARCHT | 262 | Electrical Mechanical Systems | Ŭ |
| / | 202 | Application/CAD | 6 |
| ARCHT | 263 | Advanced Commercial Building Materials | 4 |
| CMST& | 203 | Public Speaking | 5 |
| CIVISTA | 220 | Total | 20 |
| | | lotal | 20 |
| 116 credi | ts are | required for the AAS-T | |
| 1 | | | |
| IVIATHO | | s a prerequisite of PHYS 101 and must have | |
| been co | omplet | ed with a 2.0 or better. | |
| Contificat | • | | |
| Certificat | | | |
| First Qua | | | - |
| ARCHT | 112 | Introduction to Architectural Drafting ¹ | 5 |
| ARCHT | 120 | Residential Architecture Theory | 5 |
| ARCHT | 126 | Introduction to Computer Aided Drafting | 5 |
| | | Total | 15 |
| | | | |

| Second | Quarter |
|--------|---------|
| | |

| ARCHT | 114 | Architectural Math ² | 3 |
|-------|-----|---|---|
| ARCHT | 122 | Architectural Design 1 ¹ | 7 |
| ARCHT | 130 | Residential Building Materials ¹ | 4 |

| ARCHI | 134 | Total | 4 18 |
|----------|-------|--|---------|
| Third Qu | arter | | |
| ARCHT | 124 | Advanced Architectural Math ² | 2 |
| ARCHT | 125 | Residential Building Codes ¹ | 2 |
| ARCHT | 132 | Introduction to Construction Documents/CAE | 8 (|
| ARCHT | 139 | Delineation | 5 |
| | | Total | 17 |

124 Electrical and Machanical Systems ¹

50 credits are required for the Certificate

ADCUT

¹ This related education requirement may be met by any course or combination of courses approved by the instructional dean.

² ARCHT 114 and ARCHT 124 may be substituted with COMPASS scores of M2=77, M3=60, and M4=44. Students meeting these test score requirements and seeking Prior Learning Assessment evaluation should work with their instructor and the Prior Learning Assessment area for credit evaluation.

ART (ASSOCIATE IN FINE ARTS DEGREE) AFA: SFCC

The Associate in Fine Arts (AFA) program offers a solid foundation of art courses and some general undergraduate requirements for the student intending to pursue a liberal arts degree or a Fine Arts degree (BFA) at a four–year institution or for the student who will transfer to a professional art school. The AFA prepares students to transfer to a four–year institution with a minimum of 90 credits, which include many general university requirements. Art schools and university art departments may require that portfolios be submitted for admission into art programs. The AFA provides the student an opportunity to prepare a portfolio of original work. In addition, the AFA provides the student an opportunity to develop his/her skills and explore various avenues of creative image making.

Faculty coaching of studio and academic work is essential for this degree. At least 30 credits in art must be earned at Spokane Falls Community College, including the final quarter of the program. A cumulative grade point of 2.0 or better must be maintained. Students should meet with their art adviser to review the catalog and/or transfer manual of the school to which they plan to transfer before selecting courses.

Contact the SFCC Art Department for articulated AFA agreements with Washington State University and The Evergreen State College.

AFA

| First Qua | rter | | |
|-----------|-------|--|------|
| ART& | 100 | Art Appreciation ¹ | 5 |
| ART | 101 | Fundamentals of Drawing | 4 |
| ART | 105 | Color and Design | 5 |
| ART | 122 | Health and Safety in Art | 1 |
| | | Additional Studio Class Recommended ² | 0-5 |
| | | Total 1 | 5–20 |
| Second Q | uarte | r | |
| ART | 102 | Drawing Composition ³ | 4 |
| ART | 106 | 3-D Design | 4 |
| ART | 112 | Non-Western Art ⁴ | 5 |
| ENGL& | 101 | English Composition I | 5 |
| | | Total | 18 |
| Third Qua | arter | | |
| ART | 110 | Modern Art ⁵ | 5 |
| ART | 161 | Portfolio I ⁶ | 1 |
| ART | 180 | Watercolor ⁷ | 4 |
| ART | 202 | Figure Drawing | 3 |
| | | | |

| | Lab Sc Total | ience Elective | 5 18 |
|------------------------|---|--|---|
| CMST& 10 | 30 Sculptu 01 Introdu 07 Math in | ction to Communication ⁹ Society nal Studio Class Recommended ² | 4 5 0-5 –19 |
| Fifth Quarte ART 20 | 05 Cerami Addition Non-Ar | nal Studio Class Recommended ² t Humanities Elective Sciences Elective | 4 0-5 5 - 19 |
| | 36 Oil Pair 51 Exhibit Addition Art Elec | 6 nal Studio Class Recommended ² ctive ¹² Sciences Elective | 4 1 0-5 3-4 5 –19 |

92-113 credits are required for the AFA

- ¹ ART& 100 may be substituted with ART 108 or 112.
- ² The faculty recommend that you take one (1) additional studio class during this quarter to build a stronger portfolio.
 ³ ADT 102 may be substituted with ADT 102
- ³ ART 102 may be substituted with ART 103.
- ⁴ ART 112 may be substituted with ART& 100 or ART 109.
- ⁵ ART 110 should be taken in the first year of the two-year program and is offered spring quarter only. Student cannot complete ART 161 without completing ART 110.
- ⁶ ART 161 and 261 are required classes. ART 161 is taught fall and spring quarters only and must be taken PRIOR to ART 261, which is taught spring quarter only.
- ⁷ ART 180 may be substituted with ART 186 or 188.
- ⁸ ART 130 may be substituted with ART 147, 189, 202 or 205.
- ⁹ CMST& 101 may be substituted with ENGL& 102
- ¹⁰ ART 205 may be substituted with ART 130 or 194.
- ¹¹ ART 186 may be substituted with ART 180, 188, 190, 191, 192 or 193.
- ¹² Any art course will serve as an art elective. Some classes can be repeatable courses. See college catalog for listing of courses and repeatable courses.

ART (CERTIFICATE IN FINE ARTS) CFA-2D, CFA-3D: SFCC

The Certificate in Fine Arts (CFA) affirms completion of work and is suitable for art professionals, but is not a transfer certificate. However, the courses are above 100 and are listed in many catalogs for four-year colleges and universities. Most courses will transfer. The program can be completed in two years. To develop a better assimilation of concepts and skills, a longer time span may be suggested for some students.

Each CFA student is assigned an art adviser who helps plan his or her program. Students must submit a portfolio and participate in an exhibition during their final quarter. A candidate for a Certificate in Fine Arts must complete a minimum of 96 quarter hours with a grade point average of 2.0 or better. The art adviser and art faculty will work with and evaluate the work of the student before final approval and recommendation to award the Certificate in Fine Arts.

The faculty recommends that you take one additional studio class during the first quarter to build a stronger portfolio. Not all art classes are offered every quarter. Please contact the art department for course offerings.

CFA-2D **First Quarter** ART& 100 Art Appreciation¹ 5 ART 101 Fundamentals of Drawing 4 Color and Design 5 ART 105 ART 122 Health and Safety in Art 1 Additional Studio Class Recommended ² 0-5 Total 15-20 Second Quarter Drawing Composition³ ART 102 4 3-D Design ART 106 4 **Communication Elective** 5 **Repeatable Painting Course** 4 Total 17 Third Quarter Modern Art⁴ 5 ART 110 Portfolio I⁵ ART 161 1 Figure Drawing 3 ART 202 Art Elective 6 4 4 Repeatable Required Course - List 1 Total 17 **Fourth Quarter** 147 Advanced Design ART 3 Experimental Drawing⁷ ART 201 3 Printmaking Elective 4 Repeatable Painting Course 4 Repeatable Required Course - List 1 4 Total 18 **Fifth Quarter** ART Screen Printing 4 191 Art Elective 6 5 Computation Elective ⁸ 3-5 **Repeatable Painting Course** 4 Total 16-18 Sixth Quarter ART Figure Drawing 3 202 Exhibit 5 ART 261 1 Art Elective 6 6 Human Relations Elective 3-5 Total 13-15 96-105 credits are required for the CFA-2D **Computation Elective**

| BUS | 104 | Business Mathematics ⁸ | 5 | |
|----------|----------------------------|---|---|--|
| BUS | 111 | Math Skills ⁸ | 1 | |
| BUS | 112 | Advanced Calculator Skills ⁸ | 1 | |
| BUS | 113 | Essential Business Applications ⁸ | 1 | |
| BUS | 114 | Basic Retail Application ⁸ | 1 | |
| BUS | 123 | Practical Business Math Applications ⁸ | 5 | |
| Human R | elatio | ns Elective | | |
| BUS | 105 | Principles of Leadership | 3 | |
| HS | 136 | Improving Interpersonal Communication | 5 | |
| Printmak | ing El | ective | | |
| ART | | Printmaking | 4 | |
| ART | 190 | Printmaking Relief | 4 | |
| ART | 192 | Printmaking, Intaglio | 4 | |
| Repeatab | Repeatable Ceramics Course | | | |
| ART | 205 | Ceramics | 4 | |
| ART | 206 | Advanced Ceramics | 4 | |

| | | inting Course | |
|--|--|---|--|
| ART | | Watercolor Oil Deinting | 4 |
| ART ART | | Oil Painting Acrylic Painting | 4 |
| | | quired Course – List 1 | |
| ART | 130 | Sculpture Ceramics | 4 |
| ART | 205 | | 4 |
| | | quired Course – List 2 | |
| ART ART | 127 194 | Visual Arts Special Workshops Jewelry | 1-15 3 |
| • | | quired Course – List 3 | |
| ART | | Visual Arts Special Workshops | 1-15 |
| ART ART | 147 194 | Advanced Design Jewelry | 3 3 |
| ² The factorial class du ³ ART 102 ⁴ ART 110 ⁴ ART 110 ⁵ ART 16⁵ and spritorial completed in the series ⁶ Any art of the repeation of the repeation of the series ⁷ ART 200⁸ May be CFA–3D First Quartical class of the series | ulty re rring t 2 may 0 shou and e AR ⁻ 1 and taugl course atable and r 1 may subst | ay be substituted with ART 108 or 112. commend that you take one (1) additional his quarter to build a stronger portfolio. be substituted with ART 103. uld be taken in the first year of the two-year is offered spring quarter only. Student can T 161 without completing ART 110. 261 are required classes. ART 161 is taug larters only and must be taken prior to AR ht spring quarter only. e will serve as an art elective. Some classes courses. See college catalog for listing of repeatable courses. / be substituted with ART 202. ituted with any MATH course 100 level or a | ar not ght fall T 261, es may f |
| ART& ART ART ART | 100 101 105 122 | Art Appreciation ¹ Fundamentals of Drawing Color and Design Health and Safety in Art Additional Studio Class Recommended ² Total | 5 4 5 1 0-5 15–20 |
| Second Q | uarte | | |
| ART | 102 | Drawing Composition ³ | 4 |
| ART | 106 | 3-D Design | 4 |
| | | Communication Elective Repeatable Painting Course | 5 4 |
| | | Total | 17 |
| Third Qua ART ART ART ART | 110 161 202 | Modern Art ⁴ Portfolio I ⁵ Figure Drawing Art Elective ⁶ Repeatable Required Course - List 1 ⁶ Total | 5 1 3 4 4 17 |
| Fourth Qu ART ART ART ART | iarter 130 147 202 | Sculpture Advanced Design Figure Drawing Repeatable Ceramics Course Repeatable Required Course - List 2 Total | 4 3 3 4 3 17 |
| Fifth Quar | | | |
| ART | 130 | Sculpture Art Elective ⁶ Computation Elective ⁸ Repeatable Ceramics Course | 4 2 3-5 4 |

| | Repeatable Required Course - List 3 Total | 3 16–18 |
|---|--|--|
| Sixth Quarter ART 261 | Exhibit ⁵ Art Elective ⁶ Human Relations Elective Total | 1 10 3-5 14–16 |
| 96-105 credits | are required for the CFA-3D | |
| Computation E BUS 104 BUS 111 BUS 112 BUS 113 BUS 114 BUS 123 Human Relation 104 | Business Mathematics ⁸ Math Skills ⁸ Advanced Calculator Skills ⁸ Essential Business Applications ⁸ Basic Retail Application ⁸ Practical Business Math Applications ⁸ | 5 1 1 1 5 |
| BUS 105 | Principles of Leadership | 3 |
| HS 136 | Improving Interpersonal Communication | 5 |
| Printmaking E ART 189 | lective Printmaking | 4 |
| ART 109 ART 190 | | 4 |
| ART 192 | Printmaking, Intaglio | 4 |
| Repeatable Ce | ramics Course | |
| | Ceramics | 4 |
| ART 206 | Advanced Ceramics | 4 |
| Repeatable Pa | • | |
| | Watercolor Oil Painting | 4 4 |
| ART 188 | 5 | 4 |
| Panastabla Pa | quired Course – List 1 | |
| ART 130 | | 4 |
| ART 205 | | 4 |
| Repeatable Re | quired Course – List 2 | |
| ART 127 | Visual Arts Special Workshops | 1-15 |
| ART 194 | Jewelry | 3 |
| Repeatable Re | quired Course – List 3 | |
| ART 127 ART 147 | Visual Arts Special Workshops Advanced Design | 1-15 |
| ART 147 ART 194 | Jewelry | 3 3 |
| ² The faculty reclass during faculty reclass during faculty and the second sec | ay be substituted with ART 108 or 112. commend that you take one (1) additionation this quarter to build a stronger portfolio. y be substituted with ART 103. uld be taken in the first year of the two-ye is offered spring quarter only. Student ca T 161 without completing ART 110. 261 are required classes. ART 161 is tau aarters only and must be taken prior to AF ht spring quarter only. e will serve as an art elective. Some class e courses. See college catalog for listing of repeatable courses. y be substituted with ART 202. tituted with any MATH course 100 level or | ear nnot ught fall RT 261, ses may of |

ART PRE-MAJOR AA-DTA: SFCC

A primary purpose of the Art Department is to offer a solid foundation of academic and studio art courses for transfer to a four-year institution. The AA degree is one of two options in art for transfer. The AA degree might be chosen by the student pursuing a liberal arts degree with an art minor or major. He/she may complete all basic art requirements at Spokane Falls Community College. An art pre-major could lead to a degree in art education, art therapy, art history, arts administration, or museum studies.

The core of art courses will provide a foundation for a liberal arts degree at a four-year institution. Some four-year institutions and most art schools, however, require many more studio courses and a portfolio of original art for admission into a fine arts program. If the SFCC student, after having checked the requirements of the transfer institution, needs to build a portfolio and strengthen his/her skills, that student might best select the AFA program.

AA-DTA

| Suggested Courses to Consider ¹ | 90 |
|--|----|
| Total | 90 |

90 credits are required for the AA-DTA

¹ A total of 35 credits of the AA degree may be fulfilled by a careful selection of art courses. Consult an art adviser for recommended art courses specific to a student's professional interest and choice of transfer institution.

AUDIO ENGINEERING AAS, Certificate: SFCC

The objective of this program is to prepare students for entry– level jobs and for self–employment in the entertainment industry in the areas of audio production, recording, live sound engineering and as broadcast and audio equipment technicians.

The certificate and first year of the AAS degree provides a basic understanding of the music technology/audio engineering field. Students learn principles and procedures of studio recording live sound reinforcement, location recording, basic principles of synthesis and MIDI technology and gain a thorough understanding of the delivery formats used in music production. Students also receive training on state of the art digital audio workstations. Starting the first year and again in the second year of study, each student completes a major studio–recording project that involves recording, editing and mixing a student or professional band and culminates in developing an audio portfolio for inclusion in their professional resume. The first year also includes basic music theory, functional piano skills and study of the business aspects of the music and entertainment industries.

The second year of the degree program provides intensive study of digital audio workstations as well as advanced study and implementation of recording techniques and live sound engineering as students develop their recording, editing and mixing skills. Students will also hone their audio production skills with classes in advanced MIDI production and arrangement techniques, contemporary harmony, song writing and scoring for film, TV and multi-media. System set up and maintenance is also addressed in the second year providing students with an understanding of electronics and maintenance procedures relative to the recording industry. Finally, in the sixth quarter of study, students participate in an audio internship where they gain experience working on location at a professional recording studio, post-production facility or live sound venue.

Admission Requirements

- Admission to Audio Engineering requires students to complete an application process, which includes a college application, placement scores in reading, writing and math, an essay and an interview. So long as there is room in the program, ALL students who complete the application process are admitted. If the number of applicants exceeds the number of available slots, students are selected for admission based on their placement scores (reading, writing, and math), knowledge of audio engineering and music, communication skills (written and spoken) and goals.
- For detailed information regarding the application process, visit the Audio Engineering website and see tab labeled "Apply".

AAS

First Quarter Music Basics for Audio Professionals¹ 5 AUDIO 116 AUDIO Introduction to Music Technology 4 117 AUDIO Introduction to Recording 5 155 MUSC 166 Functional Piano I² 2 Total 16 Second Quarter 3 AUDIO 113 Live Sound and Location Recording I AUDIO 120 Digital Audio I 4 Contemporary Harmony MUSC 3 114 MUSC 167 Functional Piano II² 2 **Computation Related Instruction** Requirement 4 5 Total 17 Third Quarter AUDIO **Digital Audio II** 4 121 Audio Project I AUDIO 151 1 AUDIO 156 Audio Engineering I 4 Human Relations/Leadership Related Instruction Req⁴ 5 Total 14 **Fourth Quarter** 213 AUDIO Live Sound II 4 AUDIO System Setup and Maintenance 3 217 AUDIO 218 Digital Audio III 5 Contemporary Harmony II/Songwriting 5 MUSC 214 Total 17 **Fifth Quarter** 205 5 AUDIO **MIDI** Arranging Digital Audio IV AUDIO 219 5 AUDIO 255 Audio Engineering II 4 Communication Related Instruction Requirement 4 5 Total 19 Sixth Quarter AUDIO 206 Scoring for Film and Multi-Media ³ 5 AUDIO 220 Digital Audio V 5 Audio Projects II AUDIO 251 1 AUDIO Audio Portfolio 260 1 AUDIO **Cooperative Education Seminar** 266 1 AUDIO 267 **Cooperative Education Work Experience** 1-3 Total 14 - 16

97-99 credits are required for the AAS

Communication Related Instruction Requirement

| CMST& | 101 | Introduction to Communication | 5 |
|-------|-----|-------------------------------|---|
| CMST | 121 | Job Communication Skills | 5 |
| CMST& | 210 | Interpersonal Communication | 5 |
| CMST | 226 | Gender Communication | 5 |
| CMST | 227 | Intercultural Communication | 5 |

| ENGL& | 101 | | 5 |
|---------------|------------|--|--------|
| JOURN | 220 | Introduction to News Writing | 5 |
| Computa | ation F | Related Instruction Requirement | |
| BUS | 104 | Business Mathematics | 5 |
| BUS | 123 | Practical Business Math Applications | 5 |
| MATH | 090 | Pre-Algebra | 5 |
| MATH | 093 | Algebra I | 5 |
| MATH | 094 | Algebra II | 5 |
| MATH | 098 | J • • • • | 5 |
| MATH& | 107 | Math in Society | 5 |
| Human F | Relatio | ons/Leadership Related Instruction Req | |
| ANTH& | 206 | Cultural Anthropology | 5 |
| AUDIO | 159 | Business of Music | 5 |
| BUS | 280 | Human Relations in Business | 5 |
| HS | 136 | Improving Interpersonal Communication | 5 |
| HUM | 107 | Introduction to Cultural Studies | 5 |
| MMGT | 101 | Principles of Management | 5 |
| MMGT POLS | 125 125 | Social Media Marketing Introduction to Global Issues | 5 5 |
| POLS PSYC& | 125 | General Psychology | 5 5 |
| SOC& | 100 | Intro to Sociology | 5 5 |
| SOC& | 201 | 0, | 5 |
| SOCA | 201 | | 5 |
| SOC | 230 | Sociology of Gender | 5 |
| | | | U |
| | | nay be substituted with MUSC& 141. | |
| | | It with AUDIO faculty adviser prior to selecting | g |
| • | | ctional piano. | |
| AUDIC | | nay be substituted with AUDIO 256. | |
| A IIIIIII | | f 5 credits of related instruction must be taken competency; Communications, Computation, | i In |
| | | ions/Leadership. Please consult with faculty | |
| | | to selecting related instruction courses. A class | |
| | | ed to fulfill more than one area. | |
| cannot | 20 00 | | |
| Certificate | | | |

Certificate

First Quarter AUDIO Music Basics for Audio Professionals¹ 116 AUDIO Introduction to Music Technology 117 Introduction to Recording AUDIO 155 MUSC 166 Functional Piano I² Total Second Quarter AUDIO 113 Live Sound and Location Recording I AUDIO 120 Digital Audio I MUSC 114 **Contemporary Harmony** Functional Piano II MUSC 167 Total **Third Quarter**

| AUDIO | 121 | Digital Audio II | 4 |
|-------|-----|--|----|
| AUDIO | 151 | Audio Project I | 1 |
| AUDIO | 156 | Audio Engineering I | 4 |
| | | Program Elective - See adviser for options | 3 |
| | | Total | 12 |
| | | | |

40 credits are required for the Certificate

AUDIO 116 may be substituted with MUSC& 141.

Please consult with AUDIO faculty adviser prior to selecting course in functional piano.

AUTOMOTIVE COLLISION AND REFINISHING TECHNICIAN AAS, Certificate: SCC

The Automotive Collision and Refinishing Technician program teaches the skills necessary to succeed in the automotive collision repair industry. Instruction is primarily in a shop situation where field conditions are simulated. Students are able to learn

by demonstration and direct hands on experience.

Students are instructed in a wide range of skills, including welding, sheet metal repair and replacement, fabrication and restoration techniques, frame and unibody repair, as well as repair and replacement of structural components.

The refinishing portion of our program provides students with a comprehensive education in modern refinishing techniques and materials, as well as material and damage estimation. Students will learn all phases of substrate preparation, color matching and application of the latest paint materials including water born products.

Students must complete each ABF and related course with a 2.0

grade or better before advancing to subsequent quarters. AAS **First Quarter** Shop Procedures 7 ABF 111 ABF 115 **Basic Metal Straightening** and Panel Alignment 4 ABF Parts Identification 4 116 Automotive Collision MIG Welding 3 ABF 117 Applied Mathematics ¹ APLED 112 4 Total 22 Second Quarter 112 Unibody and Frame Alignment and Repair 10 ABF ABF 244 Advanced Metal Straightening and Panel Alignment Methods 5 Applied Written Communication¹ APLED 121 4 Total 19 **Third Quarter** ABF Major Panel Replacement 5 123 ABF **Mechanical Components** 3 124 ABF 125 Major Unibody and Frame Repair 5 Employment Preparation APLED 125 3 Total 16 **Fourth Quarter** Introduction to Industrial Safety and Hygiene ARF 133 3 ABF 134 Introduction to Interior and Exterior Surface Preparation 4 ABF 135 Basic Polishing and Detailing 3 Introduction to Topcoat Systems ABF 136 and Application Procedures 3 Basic Color Matching ABF 137 and Paint Mixing Fundamentals 3 APLED 112 Applied Mathematics¹ 4 Total 20 **Fifth Quarter** ABF 138 Intermediate Interior and Exterior Surface Preparation 4 ABF 139 Intermediate Paint Application, Color Matching, and Paint Mixing 4 ABF 140 Materials and Cost Estimation 3 ABF Intermediate Finessing, Compounding, 141 and Detailing 5 APLED 121 Applied Written Communication¹ 4

| Sixth Quarter | | | |
|---------------|-----|--|----|
| ABF | 270 | Sheet Metal Restoration Welding | 4 |
| ABF | 271 | Sheet Metal Shaping | 4 |
| ABF | 272 | Bucks and Forms | 3 |
| ABF | 273 | Sheet Metal and Restoration and Repair | 5 |
| APLED | 125 | Employment Preparation ¹ | 3 |
| | | Total | 19 |
| | | | |

Total

5

4

5

2

16

3

4

3

2

12

20

116-124 credits are required for the AAS

- This related education requirement may be met by any course or combination of courses approved by the instructional dean. APLED 112 for second year students will substitute with APLED 123 for 4 credits. APLED 121 for second year students will substitute with APLED 113. Automotive Collision Technician certificate students will take APLED 125 in third quarter; AAS students will take APLED 125 in sixth quarter.
- ABF 266 and 267 may be substituted for ABF courses in the sixth guarter with permission of the instructor.
- 3 AUTO 131 and 132 for Automotive Collision and Refinishing Technician students desiring to receive additional training in suspension may be taken during the summer guarter either after the 3rd or 6th quarter. Instructor permission required. Completion of these courses will entitle the student to a certificate of completion issued by the dean of instruction for technical education.

Certificate – Automotive Collision Technician **First Quarter**

| ABF | 111 | Shop Procedures | 7 | | |
|----------------|-----|----------------------------------|----|--|--|
| ABF | 115 | Basic Metal Straightening | | | |
| | | and Panel Alignment | 4 | | |
| ABF | 116 | Parts Identification | 4 | | |
| ABF | 117 | Automotive Collision MIG Welding | 3 | | |
| APLED | 112 | Applied Mathematics ¹ | 4 | | |
| | | Total | 22 | | |
| | | | | | |
| Second Quarter | | | | | |

Second Quarter

| ABF | | Unibody and Frame Alignment and Repair | 10 |
|----------|-------|--|----|
| ABF | 244 | Advanced Metal Straightening | _ |
| | | and Panel Alignment Methods | 5 |
| APLED | 121 | Applied Written Communication ¹ | 4 |
| | | Total | 19 |
| Third Qu | arter | | |
| ABF | 123 | Major Panel Replacement | 5 |
| ABF | 124 | Mechanical Components | 3 |

| ABF | 123 | Major Panel Replacement | 5 |
|-------|-----|--------------------------------|----|
| ABF | 124 | Mechanical Components | 3 |
| ABF | 125 | Major Unibody and Frame Repair | 5 |
| APLED | 125 | Employment Preparation | 3 |
| | | Total | 16 |

57 credits are required for the Certificate

This related education requirement may be met by any course or combination of courses approved by the instructional dean.

Certificate - Automotive Refinishing Technician First Quarter

| | not qua | | | |
|---|----------|--------|---|----|
| 1 | ABF | 133 | Introduction to Industrial Safety and Hygiene | 3 |
| 1 | ABF | 134 | Introduction to Interior and Exterior | |
| | | | Surface Preparation | 4 |
| | ٩BF | 135 | Basic Polishing and Detailing | 3 |
| | ٩BF | 136 | Introduction to Topcoat Systems | |
| | | | and Application Procedures | 3 |
| | ٩BF | 137 | Basic Color Matching | |
| | | | and Paint Mixing Fundamentals | 3 |
| | APLED | 112 | Applied Mathematics ¹ | 4 |
| | | | Total | 20 |
| | | | | |
| ; | Second C | Quarte | er | |
| | ٩BF | 138 | Intermediate Interior and Exterior | |
| | | | Surface Preparation | 4 |
| | ٩BF | 139 | Intermediate Paint Application, | |
| | | | Color Matching, and Paint Mixing | 4 |
| | ٩BF | 140 | Materials and Cost Estimation ¹ | 3 |
| | | | | |

| ABF | 141 | Intermediate Finessing, Compounding, | |
|-------|-----|--|----|
| | | and Detailing | 5 |
| APLED | 121 | Applied Written Communication ¹ | 4 |
| | | Total | 20 |

40 credits are required for the Certificate

This related education requirement may be met by any course or combination of courses approved by the instructional dean.

Certificate - Sheet Metal Restoration and Fabrication

| ABF | 270 | Sheet Metal Restoration Welding | 4 |
|-----|-----|--|----|
| ABF | 271 | Sheet Metal Shaping | 4 |
| ABF | 272 | Bucks and Forms | 3 |
| ABF | 273 | Sheet Metal and Restoration and Repair | 5 |
| | | Total | 16 |

16 credits are required for the Certificate

AUTOMOTIVE MAINTENANCE AND LIGHT REPAIR **Certificate: SCC**

This program prepares students for the ASE G1 test and an entry-level automotive general service technician position.

Certificate

| First Qu | arter | | |
|----------|--------|---------------------------------|----|
| AUTO | 100 | Introduction to Automotive | 4 |
| AUTO | 116 | Diagnosis of Electrical Systems | 4 |
| AUTO | 150 | Chassis Maintenance | 4 |
| | | Total | 12 |
| | | | |
| Second | Quarte | er | |
| AUTO | 111 | Theory of Brakes | 6 |
| AUTO | 151 | Drive Train Maintenance | 6 |
| | | Total | 12 |
| | | | |

24 credits are required for the Certificate

AUTOMOTIVE TECHNOLOGY AAS, Certificate: SCC

The Automotive Technology program prepares students for employment in many areas of the automotive field including dealerships, independent garages, fleet shops, service stations and specialty shops which cover areas such as tune-ups and brakes. Students may enter the program only in the first quarter. The one-year certificate requires completion of any three quarters of the automotive technology program and the three related classes identified in footnote 1. This flexible schedule also enables students to receive short-term certificates while pursuing their degree. Students must complete all courses with a 2.0 grade or better before advancing to subsequent quarters.

AAS **First Quarter** AGGEN 161 Advanced Maintenance Welding 1 APLED 112 Applied Mathematics¹ 4 Applied Written Communication¹ APLED 121 4 APLED Leadership Skills for Business and Industry 123 4 Introduction to Automotive AUTO 100 4 Total 17 Second Quarter AUTO Theory of Electrical Systems 6 115 AUTO **Diagnosis of Electrical Systems** 116 4 Theory of Electronic Systems 5 AUTO 215 AUTO 216 **Diagnosis of Electronic Systems** 3 Total 18

| Third Qu | larter | | | | |
|--|--|--|----------------|--|--|
| AUTO | 119 | Theory of Heating and Air Conditioning | 4 | | |
| AUTO | 120 | Application of Heat and AC | 2 | | |
| AUTO | 211 | Theory of Engines | 7 | | |
| AUTO | 212 | Application of Engine Repair | 5 | | |
| | | Total | 18 | | |
| | | | | | |
| Fourth G | Juarter | | | | |
| AUTO | 111 | Theory of Brakes | 6 | | |
| AUTO | 112 | Applications of Brakes | 4 | | |
| AUTO | 131 | Theory of Suspension and Steering | 5 | | |
| AUTO | 132 | Application of Suspension and Steering | 3 | | |
| //010 | 102 | Total | 18 | | |
| | | | 10 | | |
| Fifth Qu | artor | | | | |
| APLED | 125 | Employment Preparation ¹ | 3 | | |
| AUTO | 113 | Theory of Auto Transmissions/Transaxles ² | 6 | | |
| AUTO | 114 | Application of Auto Transmissions/Transactes | | | |
| AUTO | 129 | Theory of Manual Drive Train/Transmission | | | |
| AUTO | 130 | Application of Manual | 5 0 | | |
| AUTO | 130 | Drive Train/Transmission ² | 2 | | |
| | | Total | 3 21 | | |
| | | TOLAI | 21 | | |
| Civel Or | | | | | |
| Sixth Qu | | The end of English Devicements | 7 | | |
| AUTO | 117 | Theory of Engine Performance | 7 | | |
| AUTO | 118 | Application of Engine Performance | 5 | | |
| AUTO | 227 | Theory of Hybrids | 4 | | |
| AUTO | 228 | Diagnosis of Hybrids | 2 | | |
| | | Total | 18 | | |
| • | • | | | | |
| Seventh | Quart | | | | |
| | | Optional Summer Course - | ~ | | |
| | | J | 0-18 | | |
| | | Total | 0–18 | | |
| 110-128 credits are required for the AAS | | | | | |
| • • • | | | | | |
| | | ner Course – High Performance Engines | | | |
| AUTO | 270 | High Performance Engines | 18 | | |
| ¹ Thio ro | | | | | |
| THISTE | | education requirement may be met with any | | | |
| | | nbination of courses approved by the | | | |
| instructional dean. | | | | | |
| Auto Z | 66 and | 267 or 288 (no seminar) may be substituted | . A | | |
| maximum of 18 credits of cooperative education is allowed. | | | | | |
| AUTO | | r automotive technology students desiring to | | | |
| receive | receive additional training may be taken summer quarter either | | | | |

receive additional training may be taken summer quarter either after the 3rd or 6th quarter. Instructor permission required. Completion of this course will entitle the student to a certificate of completion issued by the dean of instruction for technical education.

Certificate - A1 Engine Repair

This short-term engine repair certificate program provides students with theory and operation fundamentals of engine diagnosis. Students gain practical shop experience in engine repair, inspection of cylinder heads, valve trains, engine blocks, and lubrication and cooling systems.

| AUTO | 211 | Theory of Engines | 7 |
|------|-----|------------------------------|----|
| AUTO | 212 | Application of Engine Repair | 5 |
| | | Total | 12 |

12 credits are required for the Certificate

Certificate – A2 Auto Transmissions/Transaxles

This short-term certificate program introduces students to the theory and operation of automatic transmissions/transaxles Students learn the principles of late model transmissions, transaxles and sub-assemblies Practical applications include

the diagnosis and repair of all types of automatic transmissions/ transaxle components.

| AUTO | 113 | Theory of Auto Transmissions/Transaxles | 6 |
|------|-----|---|----|
| AUTO | 114 | Application of Auto Transmissions/Tranaxles | 4 |
| | | Total | 10 |

10 credits are required for the Certificate

Certificate - A3 Manual Drive Train & Axles

This short-term certificate program introduces students to the theory and operation of manual transmissions/transaxles, differential, drive line, transfer case, and constant velocity joints. Students learn the principles of late model manual transmissions, transaxles and sub-assemblies. Practical applications include the diagnosis and repair of all types of manual transmissions/transaxles, transfer case, and differential components.

| AUTO | 129 | Theory of Manual Drive Train/Transmissions | 5 |
|------|-----|--|---|
| AUTO | 130 | Application of Manual | |
| | | Drive Train/Transmission | 3 |
| | | Total | 8 |

8 credits are required for the Certificate

Certificate - A4 Suspension and Steering

This short-term certificate provides students with both theory and practical lab applications in automotive suspension and steering systems Students gain experience in the diagnosis and repair of the following systems and components: power steering and suspension systems including MacPherson struts and fourwheel alignment.

| AUTO | 131 | Theory of Suspension and Steering | 5 |
|------|-----|--|---|
| AUTO | 132 | Application of Suspension and Steering | 3 |
| | | Total | 8 |

8 credits are required for the Certificate

Certificate – A5 Brakes

This short-term certificate provides students with both theory and practical lab applications in automotive brake and hydraulic systems. Students gain experience in the diagnosis and repair of the following systems and components: master cylinder and hydraulic systems, drum and disc brakes, parking brakes, machining of brake drums and rotors, power brake units, and anti-lock brake systems.

| AUTO | 111 | Theory of Brakes | 6 |
|------|-----|------------------------|----|
| AUTO | 112 | Applications of Brakes | 4 |
| | | Total | 10 |

10 credits are required for the Certificate

Certificate – A6 Electronics/Electrical Systems

This short-term certificate program introduces students to basic electrical concepts including Ohm's Law, magnetism, analog and digital meters, and test equipment. Students gain practical shop experience in the testing of such equipment as test lamps, voltmeters and ammeters. Hookup and testing of electronics and electrical components and circuits also are included.

| AUTO | 115 | Theory of Electrical Systems | 6 |
|------|-----|---------------------------------|----|
| AUTO | 116 | Diagnosis of Electrical Systems | 4 |
| AUTO | 215 | Theory of Electronic Systems | 5 |
| AUTO | 216 | Diagnosis of Electronic Systems | 3 |
| | | Total | 18 |

18 credits are required for the Certificate

Certificate – A7 Engine Heating and Air Conditioning

This short-term certificate program emphasizes heating and air conditioning systems and components. Students are introduced to heating and air conditioning systems and gain practical shop experience in their diagnosis and repair procedures.

| AUTO | 119 | Theory of Heating and Air Conditioning | 4 |
|------|-----|--|---|
| AUTO | 120 | Application of Heat and AC | 2 |
| | | Total | 6 |

6 credits are required for the Certificate

Certificate - A8 Engine Performance

This short-term certificate program emphasizes engine performance systems and components Content areas include ignition systems, fuel and exhaust/emissions systems, theory of carburetion and ignition systems Students are introduced to drivability systems and gain practical shop experience in their diagnosis and repair procedures An electronics/electrical certificate must be earned before taking these courses.

| AUTO | 117 | Theory of Engine Performance | 7 |
|------|-----|-----------------------------------|----|
| AUTO | 118 | Application of Engine Performance | 5 |
| | | Total | 12 |

12 credits are required for the Certificate

Automotive Technology Certificate

The one-year certificate requires completion of any three quarters of the automotive technology program and the three related classes identified in footnote 1. This flexible schedule also enables students to receive short-term certificates while pursuing their degree. 56–58 credits are required for the certificate.

| APLED | 112 | Applied Mathematics ¹ | 4 |
|-------|-----|---|-------|
| APLED | 121 | Applied Written Communication ¹ | 4 |
| APLED | 125 | Employment Preparation ¹ | 3 |
| | | Any Three Quarters of AAS Degree ² | 45-47 |
| | | Total | 56–58 |

56-58 credits are required for the Certificate

- ¹ This related education requirement may be met with any course or combination of courses approved by the instructional dean.
- ² The one–year certificate requires completion of any three quarters of the automotive technology program and the three related classes identified in the certificate option.

Automotive Technology Short–Term Certificate

The automotive technology short-term certificate program prepares students for employment in many areas of the automotive field including dealerships, independent garages, fleet shops, service stations and specialty shops which cover areas such as tune-ups and brakes Students must complete all courses with a 2.0 grade or better.

| | | Advanced Maintenance Welding | 1 |
|-------|-----|--|----|
| APLED | 112 | Applied Mathematics ¹ | 4 |
| | | Applied Written Communication ¹ | 4 |
| APLED | 123 | Leadership Skills for Business and Industry ¹ | 4 |
| AUTO | 100 | Introduction to Automotive | 4 |
| | | Total | 17 |

17 credits are required for the Certificate

¹ This related education requirement may be met with any course or combination of courses approved by the instructional dean.

AUTOMOTIVE: TOYOTA T-TEN AAS: SCC

The Automotive Technology program prepares students for employment in many areas of the automotive field including dealerships, independent garages, fleet shops, service stations and specialty shops which cover areas such as tune–ups and brakes. Students may enter the program in any of the first five quarters.

Students interested in receiving special training in Toyota T–TEN (Technical Education Network) may substitute specialized courses specifically catering to Toyota T–TEN option. Entrance into the program requires an interview with and permission of the instructor. Continuation within the course program requires permission of the instructor. Students must complete each AUTO course with a 2.0 grade or better before advancing to subsequent quarters.

AAS

| First Qua | rter | | |
|-----------|--------|--|----|
| AGGEN | 158 | Oxy-acetylene Welding | 1 |
| AUTO | 101 | Electrical Circuitry Theory | 5 |
| AUTO | 102 | Electrical Circuitry Applications ¹ | 3 |
| AUTO | 103 | Electrical Wiring Diagrams ¹ | 5 |
| AUTO | 104 | Advanced Diagnosis of Electronics | 4 |
| AUTO | 110 | Introduction to Toyota | 1 |
| | | Total | 19 |
| Second C | Quarte | r | |
| APLED | 121 | Applied Written Communication ¹ | 4 |
| AUTO | 133 | Toyota Applications of Steering | |
| | | and Suspension Systems | 4 |
| AUTO | 136 | Toyota Theory of Brakes | 5 |
| AUTO | 137 | Toyota Brake Applications | 4 |
| AUTO | 142 | Principles of Steering | |
| | | and Suspension Systems | 4 |
| | | Total | 21 |
| Third Qua | arter | | |
| AGGEN | 161 | Advanced Maintenance Welding | 1 |
| AUTO | 134 | Heating and Air Conditioning Lecture | 5 |
| AUTO | 135 | Heating and Air Conditioning Application | 4 |
| AUTO | 219 | Toyota Hybrid Service and Repair | 3 |
| AUTO | 226 | Hybrid Safety Service and Repair | 4 |
| | | Total | 17 |
| Fourth Q | uarter | | |
| APLED | 112 | Applied Mathematics ¹ | 4 |
| AUTO | 108 | Engine Theory | 6 |
| AUTO | 109 | Engine Repair Applications | 2 |
| AUTO | 125 | Toyota Engine Repair | 4 |
| AUTO | 126 | Toyota Engine Repair Lab | 5 |
| | | Total | 21 |
| Fifth Qua | rtor | | |
| APLED | 125 | Employment Preparation ¹ | 3 |
| AUTO | 123 | Toyota Engine Performance I | 4 |
| AUTO | 124 | Toyota Engine Performance I Lab | 4 |
| AUTO | 220 | Toyota Engine Performance II | 3 |
| AUTO | 223 | Toyota Engine Performance II Lab | 5 |
| | | Total | 19 |
| Sixth Qua | arter | | |
| AUTO | 138 | Manual Transmissions Lecture | 4 |
| AUTO | 139 | Toyota Manual Transmission Application | 3 |
| AUTO | 140 | Automatic Transmissions Lecture | 4 |
| AUTO | 141 | Toyota Automatic Transmission Applications | 5 |
| | | Total | 16 |
| | | | |

| Seventh Quarter | |
|---|---------------------|
| Optional Summer Course - High Performance Engines ² Total | 0-18 0–18 |

113-131 credits are required for the AAS

| Optional | Sumn | ner Course – High Performance Engines | |
|----------|------|---------------------------------------|----|
| AUTO | 270 | High Performance Engines | 18 |

- This related education requirement may be met with any course or combination of courses approved by the instructional dean.
- 2 AUTO 270 for automotive technology students desiring to receive additional training may be taken summer quarter either after the 3rd or 6th quarter. Instructor permission required. Completion of this course will entitle the student to a certificate of completion issued by the dean of instruction for technical education.

AVIATION MAINTENANCE TECHNOLOGY AAS, Certificate: SCC

Approved courses in both airframe and powerplant mechanics are offered to meet the Federal Aviation Administration requirements. General aircraft courses offered the first two quarters are prerequisites to both the airframe and powerplant phase of the program. Students receive a well-rounded education in general aircraft mechanics the first two quarters of the program. Third-and fourth-quarter course offerings include both lecture and lab courses in airframe repair, and fifth-and sixth-quarter offerings include lecture and lab courses in powerplant repair. Courses to satisfy the requirements for an AAS degree will be by arrangement.

Graduates of the program are eligible to take the FAA examination for both the Airframe and Powerplant licenses. A minimum of 1,900 attendance hours is required to take these exams.

AAS

First Quarter

| ARCFT | 115 | Introduction to General Aircraft Maintenan | ce 5 |
|-------|-----|---|-------|
| ARCFT | 116 | Introduction to General Aircraft | |
| | | Maintenance Shop | 4 |
| ARCFT | 117 | General Aircraft Maintenance | 5 |
| ARCFT | 118 | General Aircraft Maintenance Shop | 4 |
| MATH | 100 | Vocational Technical Mathematics ¹ | 3-4 |
| | | Total | 21–22 |

Second Quarter

| ARCFT | 119 | Advanced General Aircraft Maintenance | 5 |
|----------|--------|--|-------|
| ARCFT | 120 | Advanced General Aircraft | |
| | | Maintenance Shop | 4 |
| ARCFT | 135 | Basic Airframe Maintenance | 5 |
| ARCFT | 136 | Basic Airframe Maintenance Shop | 5 |
| | | Related Education Requirement ² | 3-4 |
| | | Total | 22–23 |
| Think Or | | | |
| Third Qu | arter | | |
| ARCFT | 137 | Airframe Structures | 5 |
| ARCFT | 138 | Airframe Structures Shop | 5 |
| ARCFT | 139 | Airframe Systems | 5 |
| ARCFT | 140 | Airframe Systems Shop | 5 |
| | | Related Education Requirement ² | 3-4 |
| | | Total | 23–24 |
| Fourth Q | uarter | | |

| ARCFT | 235 | Advanced Airframe Systems | 5 |
|-------|-----|--|---|
| ARCFT | 236 | Advanced Airframe Systems Shop | 5 |
| ARCFT | 237 | Integrated Airframe Powerplant Maintenance | 5 |

| ARCFT | 238 | Integrated Airframe Powerplant Maintenance Shop Related Education Requirement ² Total | 5 3 23 |
|----------|--------|--|---------------------|
| Fifth Qu | arter | | |
| ARCFT | 245 | Aircraft Engines I | 5 |
| ARCFT | 246 | Aircraft Engines Shop I | 5 5 |
| | | Aircraft Engines II | 5 |
| ARCFT | 248 | | 5 |
| | | Total | 20 |
| Sixth Q | uarter | | |
| ARCFT | 255 | Powerplant Systems and Components I | 5 |
| ARCFT | 256 | Powerplant Systems | |
| | | and Components I Shop | 5 |
| ARCFT | - | | 5 |
| ARCFT | 258 | | _ |
| | | and Components II Shop | 5 |
| | | Total | 20 |
| Seventh | Quart | er | |
| | | Additional Credits | |
| | | to Satisfy FAA Requirements ³ | 0-20 |

129-152 credits are required for the AAS

Total

Additional Credits to Satisfy FAA Requirements

| ARCFT | 275 | Theory and Review - | |
|-------|-----|--|------|
| | | Airframe or Powerplant ³ | 1-10 |
| ARCFT | 276 | Airframe or Powerplant Shop ³ | 1-10 |

- This course may be substituted with any course from the department pre-approved substitution list or any related course or combination of courses approved by the instructional dean.
- 2 This course may be chosen from a pre-approved departmental elective list or any related course or combination of courses approved by the instructional dean. A subtotal of 15 credits (a minimum of 3 in each category) in the related education areas of computation, written communication, and human relations/leadership is required for the AAS degree.
- 3 Available for students who have not accumulated 1900 hours or satisfied other FAA requirements.

Airframe Maintenance Certificate

This two-quarter certificate provides students with both theory and practical lab application on advanced aircraft construction, rigging and repair, aircraft operation systems, aircraft warning systems, and advanced aircraft electrical systems. This certificate in conjunction with the General Aircraft Maintenance Certificate would allow a student to be eligible to apply for a Federal Aviation Administration Maintenance Airframe License. Completion of the General Aircraft Maintenance Certificate is required before Airframe and/or Powerplant Certificate programs are taken. FAA requires 750 hours of attendance.

First Quarter

| ARCFT | 137 | Airframe Structures | 5 |
|----------|--------|--|----|
| ARCFT | 138 | Airframe Structures Shop | 5 |
| ARCFT | 139 | Airframe Systems | 5 |
| ARCFT | 140 | Airframe Systems Shop | 5 |
| | | Total | 20 |
| Second G | Quarte | r | |
| ARCFT | 235 | Advanced Airframe Systems | 5 |
| ARCFT | 236 | Advanced Airframe Systems Shop | 5 |
| ARCFT | 237 | Integrated Airframe Powerplant Maintenance | 5 |
| ARCFT | 238 | Integrated Airframe Powerplant | |
| | | Maintenance Shop | 5 |
| | | Total | 20 |
| | | | |

40 credits are required for the Certificate

0-20

General Aircraft Maintenance Certificate

This two-quarter certificate provides students with both theory and practical lab applications in aviation physics and aerodynamics, aircraft weight and balance, aircraft ground handling, basic aircraft electrical circuits, aircraft inspection techniques, aircraft materials and construction, and Federal Aviation Administration regulations and maintenance entries. Completion of this certificate is required before Airframe and/or Powerplant Certificate programs are taken. FAA requires 400 hours of attendance.

| MATH | 100 | Vocational Technical Mathematics ¹ Total | 3 3 |
|-----------|--------|--|---------------|
| First Qua | arter | | |
| ARCFT | 115 | Introduction to General Aircraft Maintenance | 5 |
| ARCFT | 116 | Introduction to General Aircraft | |
| | | Maintenance Shop | 4 |
| ARCFT | 117 | General Aircraft Maintenance | 5 |
| ARCFT | 118 | General Aircraft Maintenance Shop | 4 |
| | | Total | 18 |
| Second | Quarte | er | |
| ARCFT | 119 | Advanced General Aircraft Maintenance | 5 |
| ARCFT | 120 | Advanced General Aircraft | |
| | | Maintenance Shop | 4 |
| ARCFT | 135 | Basic Airframe Maintenance | 5 |
| ARCFT | 136 | Basic Airframe Maintenance Shop | 5 |
| | | Total | 19 |

40 credits are required for the Certificate

¹ Required by FAA.

Powerplant Maintenance Certificate

This two-quarter certificate provides students with both theory and practical lab application in powerplant theory and construction both for reciprocating and turbine engines, and theory and repair of powerplant accessories. This certificate in conjunction with the General Aircraft Maintenance Certificate allows students to be eligible to apply for a Federal Aviation Administration Maintenance Powerplant License. Completion of the General Aircraft Maintenance Certificate is required before Airframe and/or Powerplant Certificate programs are taken. FAA requires 750 hours of attendance.

First Quarter

| 245 | Aircraft Engines I | 5 |
|------------|---|---|
| 246 | Aircraft Engines Shop I | 5 |
| 247 | Aircraft Engines II | 5 |
| 248 | Aircraft Engines Shop II | 5 |
| | Total | 20 |
| • | | |
| Juarte | er en | |
| 255 | Powerplant Systems and Components I | 5 |
| 256 | Powerplant Systems | |
| | | _ |
| | and Components I Shop | 5 |
| 257 | and Components I Shop Powerplant Systems and Components II | 5 5 |
| 257 258 | | - |
| | 246 247 248 Quarte 255 | 247 Aircraft Engines II 248 Aircraft Engines Shop II Total Quarter 255 Powerplant Systems and Components I 256 Powerplant Systems |

20

40 credits are required for the Certificate

BACHELOR OF APPLIED SCIENCE APPLIED MANAGEMENT BAS: SFCC

Total

The BASAM builds on technical skills that entering students bring from their associate degrees (90 credits), adding theoretical knowledge, general education, and business management skills.

- Adapt effective communication skills across all levels of the organization and to diverse audiences, using language, tools, concepts and managerial principles necessary to achieve desired outcomes within specific professional contexts (e.g., healthcare management or manufacturing).
- Identify and appraise human behavior and psychology in an organizational setting.
- Think critically and creatively when making decisions within a managerial context.
- Integrate sound ethical principles related to managerial behaviors.
- Develop and/or improve management and leadership strategies within the organizational contexts.
- Successfully analyze and synthesize information for effective planning and decision-making.
- Facilitate a group-or team-based approach to problem solving.
- Apply the principles of successful human resource development to design programs which maximize the human potential within the organization.
- Apply ethical and legal principles related to employee relationships to improve organizational outcomes.
- Apply the principles of accounting and financial management to solve problems within the organizational context.
- Demonstrate competence in current and emerging information technologies.

Within the four years of an applied baccalaureate degree, general education credits must include a minimum of:

- Ten (10) credits of communication skills, including one English composition course, e.g. ENGL& 101;
- Five (5) credits of quantitative/symbolic reasoning skills;
- Ten (10) credits of humanities;
- Ten (10) credits of social sciences;
- Ten (10) credits of natural science, including at least five (5) credits in physical, biological and/or earth sciences, including at least one course with a lab;
- 15 credits of remaining general education courses to achieve the required 60 credits.

Typically, at least 15 general education credits are satisfied at the associate degree level as confirmed by entrance prerequisites, and the remaining 45 credits are satisfied with courses in quantitative skills, humanities, social sciences and natural sciences. General education requirements and courses recommendation are outlined in the following table.

| BAS | | AA or AAS Degree Total | 90 90 |
|-----------|-------|--|-----------------|
| First Qua | | | _ |
| ENGL | 335 | Technical and Professional Writing | 5 |
| MMGT | 341 | Applied Principles of Management Computation Elective Group | 5 5 |
| | | Total | 15 |
| Second C | uarte | r | |
| CMST | 430 | Organizational Communication | 5 |
| MMGT | 342 | Project Management | 5 |
| | | Non-Lab Science | 5 |
| | | Total | 15 |

| Third Qua | arter | | |
|------------|--------|--|--------|
| CMST | 227 | Intercultural Communication | 5 |
| CMST | 320 | Professional Communication | 5 |
| | | Lab Science | 5 |
| | | Total | 15 |
| | | | |
| Fourth Qu | | | _ |
| PSYC | 333 | Motivation | 5 |
| | | Fourth Quarter Management Elective Group PHILOSOPHY 330 - Professional Ethics | 5 5 |
| | | Total | 15 |
| | | lotal | 13 |
| Fifth Qua | rter | | |
| MMGT | 344 | Business Information Systems | 5 |
| MMGT | 428 | Human Resource Management | |
| | | & Employment Law | 5 |
| | | Fifth Quarter Management Elective Group | 5 |
| | | Total | 15 |
| Sixth Qua | rter | | |
| MMGT | 325 | Legal Issues for Managers | 5 |
| MMGT | 491 | Capstone Project | 5 |
| | | Sixth Quarter Management Elective Group | 5 |
| | | Total | 15 |
| 180 credit | ts are | required for the BAS | |
| 0 | | leating One we | |
| BUS | | lective Group Business Statistics | 5 |
| MATH& | 107 | | 5 5 |
| MATH | 201 | Introduction to Finite Mathematics | 5 |
| | 201 | | 0 |
| Fifth Qua | | anagement Elective Group | |
| MMGT | 343 | | 5 |
| MMGT | 350 | Marketing for Managers | 5 |
| Fourth Qu | Jarter | Management Elective Group | |
| ACCT | 320 | Accounting for Managers | 5 |
| MMGT | 350 | Marketing for Managers | 5 |
| MMGT | 435 | Operations Management | 5 |
| Lab Scier | | | |
| BIOL | 100 | Environmental Biology | 5 |
| PHYS | 100 | Introductory Physics | 5 |
| | | | 0 |
| Non-Lab | | | |
| ASTR& | 100 | | 5 |
| GEOL | 116 | Environmental Geology | 5 |
| BACHELO | DR OF | APPLIED SCIENCE | |
| | | | |

INFORMATION SYSTEMS AND TECHNOLOGY **BAS: SFCC**

The baccalaureate in IST builds on technical skills that entering students bring from their associate degrees (90 credits), adding theoretical knowledge, general education, and advanced technical skills. Successful graduates of the Information Systems and Technology degree will be able to:

- Apply a broad understanding of information systems and technology, creative problem solving techniques and systems thinking to developing organizational solutions;
- Apply core competencies learned to function as a successful professional in the field of Information Systems and Technology;
- Work independently and cooperatively to deliver reports, programs, projects, and other deliverables that document a business organization's information technology requirements:
- Demonstrate proficiency in selecting, implementing, and operating information technology solutions to meet organizational requirements;

- Demonstrate the ability to search, analyze, and synthesize current information and solutions in the rapidly changing information technology profession;
- Base decisions and actions on the legal, ethical, and professional guidelines and practices of the information technology field;
- Engage in continuing professional development through lifelong learning;
- Analyze and apply sustainable business practices;
- Demonstrate the breadth and depth of the educational preparation through the completion of a capstone project.

Within the four years of an applied baccalaureate degree, general education credits must include a minimum of:

- Ten (10) credits of communication skills, including one English composition course, e.g. ENGL& 101;
- Five (5) credits of quantitative/symbolic reasoning skills;
- Ten (10) credits of humanities;
- Ten (10) credits of social sciences;
- Ten (10) credits of natural science, including at least five (5) credits in physical, biological and/or earth sciences, including at least one course with a lab;
- 15 credits of remaining general education courses to achieve the required 60 credits.

Typically, at least 15 general education credits are satisfied at the associate degree level as confirmed by entrance prerequisites, and the remaining 45 credits are satisfied with courses in quantitative skills, humanities, social sciences and natural sciences. All graduates of the IST baccalaureate program are expected to have core technical knowledge across the information systems and technology space. These following subject areas are required (Associate or higher degree): Unix / Linux, Programming, Ethics & Law in Information Technology, Database Theory and Development, Networking and Security. This knowledge has to be acquired before entering the BAS IST program. General education requirements and courses recommendation are outlined in the following table.

BAS

| | | AA or AAS Degree Total | 90 90 |
|-----------------------------------|---------------------------|---|--------------------------|
| First Qua ISIT ISIT PSYC | rter 310 344 333 | Routing and Switching in the Enterprise Virtualization and Storage Motivation Total | 5 5 5 15 |
| Second C | ••••• | - | |
| CMST ISIT | 430 332 | Organizational Communication Data Warehousing Non Lab Science Total | 5 5 5 15 |
| Third Qua | | | |
| CMST ISIT | 320 360 | | 5 5 5 15 |
| Fourth Q | uarter | | |
| ECON& ISIT PHIL& | 202 444 120 | | 5 5 5 15 |
| Fifth Qua | rter | | |
| ISIT ISIT | 410 470 | Enterprise Server Administration Systems Analysis and Design | 5 5 |

| MMGT | 342 | Project Management Total | 5 15 | | |
|--------------------------------------|----------------------------|--|--------------------------|--|--|
| Sixth Qua CMST ISIT | arter 227 475 | Intercultural Communication Capstone Internship General Education ¹ Total | 5 5 5 15 | | |
| 180 credi | ts are | required for the BAS | | | |
| MATH Ele MATH& MATH& | 107 | Math in Society | 5 5 | | |
| ¹ See Adviser – 5 Credits | | | | | |

BAKING: PROFESSIONAL PASTRIES AND SPECIALTY CAKES Certificate: SCC

This program prepares students for employment in independent, specialty bakeries and professional cake decorating environments. The certificate provides practical and theoretical training in personal hygiene in the baking industry, baking machinery usage, and production training in the baking of artisan breads and pastries. Students learn decorating, including proper piping procedures, tube usage, flower creation and decoration, color mixing and design principles.

Students must complete all courses with a 2.0 grade or better before advancing to subsequent quarters.

Certificate

First Quarter

| BAK | 101 | Introduction to Baking and Pastries | 1 |
|--------|--------|--------------------------------------|-----|
| BAK | 110 | Artisan Breads | 5 |
| BAK | 111 | Pastries | 7 |
| HM | 112 | Hospitality Mathematics ¹ | 3 |
| | | Total | 16 |
| | | | |
| Second | Quarte | er | |
| BAK | 120 | Special Occasion Cakes | 2 |
| BAK | 121 | Tortes and Gateau | 2.5 |
| BAK | 130 | Sculptured Cakes | 2.5 |
| BAK | 131 | Rolled Fondant | 2.5 |
| BAK | 248 | Wedding Cakes | 2.5 |
| HM | 115 | Food Sanitation | 3 |

Third Quarter

| APLED | 121 | Applied Written Communication ¹ | 4 |
|-------|-----|--|----|
| APLED | 123 | Leadership Skills for Business and Industry ¹ | 3 |
| BAK | 288 | Cooperative Education Work Experience | |
| | | (No Seminar) ² | 7 |
| | | Total | 14 |

15

45 credits are required for the Certificate

Total

 ¹ This course may be substituted with any course or combination of courses approved by the instructional dean.
 ² BAK 288 may be substituted with BAK 266 and 267 for 7 credits.

BIOLOGICAL SCIENCE PRE-MAJOR AA-DTA, Associate in Biology DTA/MRP: SCC/SFCC

The Life Science Department offers courses in the fields of environmental biology, general biology, anatomy and physiology, nutrition, microbiology, botany and zoology. These courses allow students to investigate the scientific world either as a major area of study, part of the liberal arts curriculum or just to satisfy a curiosity.

Students in Biology can specialize in a wide array of areas such as Science Education, Zoology, Botany, Wildlife, Forestry, Fisheries, Ecology, Environment Science, Microbiology, and Biotechnology. Positions can be found in a variety of areas such as public and private educational institutions, private companies, and local, state, and federal government agencies. Entry level positions are very competitive, so student should consider graduate degrees.

AA-DTA

| Suggested Courses to Consider ¹ Total | 90 90 |
|--|-----------------|
| 90 credits are required for the AA-DTA | |
| Associate in Biology DTA/MRP | |

Suggested Courses to Consider 190Total90

90 credits are required for the Associate in Biology DTA/MRP

¹ Consult a counselor or academic adviser for recommended courses specific to student's choice of transfer institution.

BIOMEDICAL EQUIPMENT TECHNICIAN AAS: SCC

This program is designed to prepare students for employment in the specialized field of biomedical electronics in a hospital or in the medical electronics industry.

The curriculum has been planned to give comprehensive training in circuit analysis, laboratory techniques and the use of modern test equipment. A balanced study of peripheral subjects that make the biomedical equipment technician unique also is included. These subjects include fundamentals of physics, chemistry, physiology, medical terminology, hospital ethics and hospital safety. The curriculum provides special lectures and laboratories in repair, and preventive maintenance of medical electronic equipment.

Graduates are prepared for employment as entry–level biomedical equipment technicians. To qualify for graduation, the student must have successfully completed five quarters of basic electronics including the additional required courses (i.e., chemistry and physics) and the six and seventh quarter biomedical sequence. Entrance to each quarter of basics is contingent upon satisfactory completion of the previous quarter. Students may enroll fall and winter quarters only. The clinical practicum is available during summer quarter only.

The goal of the program is to provide the health care field with biomedical equipment technicians who have a thorough understanding of electronic fundamentals; a practical ability to design, construct and troubleshoot electronic circuits; and knowledge about the theory of operation, physiological principles, and the safe and practical applications of biomedical equipment.

Prerequisites: appropriate ASSET or COMPASS scores in math, reading and writing (or alternative courses) must be met before admission into the program is granted. Written permission of the department chair or the technical division dean may supersede requirements.

To qualify for this degree, the student must successfully complete specific core electronics courses, as well as the biomedical classes during the sixth and seventh quarter of study. The seventh quarter of study includes a Clinical Experience at a medical facility. Since there are a limited number of Clinical sites in the Spokane area, students must be willing to go out of town to an available clinical site. The student must also successfully complete specific related classes including medical terminology, chemistry and physics. Successful completion will be determined by meeting the following criteria:

- A student must achieve an overall grade point average of 2.75 in all of the required electronics classes, biomedical electronics classes, and required specific related classes.
- A student must pass each of the electronics classes during the first three quarters of the program with a minimum grade of 1.7
- A student must pass each of the electronics classes during the fourth through seventh quarters with a minimum grade of 2.0
- A student must pass each required related course with a minimum grade of 2.0

Note: upon review, the department chairperson and/or Technical Education Dean may waive any or all of the previous criteria when extenuating circumstances arise.

AAS

First Quarter ELECT 110 Computer Fundamentals for Electronics 2 DC Circuits 2-7 ELECT 111 ELECT 112 DC Circuit Lab 2-5 113 DC/AC Circuit Math 1-5 **FIFCT** Total 7-19 Second Quarter APLED 121 Applied Written Communication¹ 4 ELECT 121 AC Circuits 2-9 AC Circuit Lab ELECT 122 2-5 123 ELECT Advanced DC/AC Circuit Math 1-5 Total 9-23 **Third Quarter** ELECT 136 Solid State Devices/Circuits 5 ELECT 137 Solid State Devices/Circuits Lab 4 5 138 Linear Devices/Circuits ELECT ELECT Linear Devices/Circuits Lab 4 139 PHYS 100 Introductory Physics 5 Total 23 Fourth Quarter CHEM& 121 Intro to Chemistry: w/Lab¹ 5 **Digital Concepts** 5 ELECT 211 Digital Concepts Lab 4 ELECT 212 ELECT 213 **Basic Computer Systems** 5 Basic Computer Systems Lab ELECT 4 214 Total 23 **Fifth Quarter** APLED 125 Employment Preparation² 3 ELECT 221 **Communication Fundamentals** 5 **Communication Fundamentals Lab** ELECT 222 4 5 ELECT 223 Advanced Computer Systems ELECT 224 Advanced Computer Systems Lab 4 Total 21 Sixth Quarter BIOEQ 199 Medical Terminology for Biomedical Equipment Technology ³ 2 BIOEQ Physiology for Biomedical 242 Equipment Technology 3 BIOEQ **Biomedical Instrumentation Patient** 251 Monitoring and Clinical 10 BIOEQ 252 Biomedical Instrumentation Laboratory 6 Total 21

Seventh Quarter

| BIOEQ | 271 | Biomedical Equipment Technology | |
|-------|-----|---------------------------------|----|
| | | Clinical Rotation | 10 |
| BIOEQ | 272 | Biomedical Seminar | 4 |
| | | Total | 14 |

118-144 credits are required for the AAS

- It is recommended that students starting fall quarter should take APLED 121, CHEM& 121 and PHYS 100 during summer quarter to lighten their credit load for the third and fourth quarters. APLED 121 may be substituted by any course or combination of courses approved by the instructional dean.
- This course may be substituted by any course or combination of courses approved by the instructional dean.
- This course is offered spring quarter only.

BUSINESS ADMINISTRATION PRE-MAJOR AA-DTA, Associate in Business DTA/MRP: SCC/SFCC

More people earn their living in business than in any other field of endeavor. Regardless of their basic training-whether it be in design, social services, health fields, the arts or a vocational area-most persons seeking employment turn to private business. The profit or loss within a company can depend on good business "know-how." Even those who do not earn their living through business enterprise directly (such as lawyer, small business owner and government employee) usually find it necessary to know something about business operations. Hence, the importance of business administration can hardly be overemphasized.

AA-DTA

| Suggested Courses to Consider ¹ | 90 |
|--|----|
| Total | 90 |

90 credits are required for the AA-DTA

| Associate in Business DTA/MRP | |
|-------------------------------|--|
|-------------------------------|--|

| Suggested Courses to Consider ¹ | 90 |
|--|----|
| Total | 90 |

90 credits are required for the Associate in Business DTA/MRP

Consult a counselor or academic adviser for recommended courses specific to student's choice of transfer institution.

BUSINESS AND SOFTWARE APPLICATIONS Certificate: SFCC

The Business and Software Applications certificate is a threequarter program of study. Students may participate in online or on-ground classes. Students learn about the broad field of business organization, operation, and management. Students apply a variety of written and oral communications, human relations and customer service techniques, and software skills throughout the program. Students explore the importance of social media in business marketing. This certificate is intended to provide students with essential skills and knowledge required to enter a business career.

Certificate

| First Qua | arter | | |
|-----------|-------|---------------------------|-------|
| BT | 101 | Keyboarding | 5 |
| BUS& | 101 | Intro to Business | 5 |
| CAPPS | 100 | Beginning Computer Skills | 2 |
| | | Computation Elective | 3-5 |
| | | Total | 15–17 |

| Second C CAPPS CAPPS | | Excel I Excel I Communication Elective Electives Human Relations - Leadership Elective Total | 2 2 5 3-5 14–16 |
|--|---|---|--|
| Third Qua BT CAPPS CAPPS MMGT | arter 272 161 171 125 | Business Correspondence Access I PowerPoint I Social Media Marketing Computation Elective Total | 5 2 2 5 3 17 |
| 46-50 cre | dits a | re required for the Certificate | |
| Commun BT ENGL& | icatio 107 101 | n Elective Business Communications English Composition I | 5 5 |
| Computa ACCT ACCT& BUS BUS CAPPS MATH& | 103 201 122 123 124 | Fundamental Bookkeeping Procedures Prin of Accounting I Practical Business Math Practical Business Math Applications Intermediate Business Math I | 3 5 3 5 3 2 5 |
| Electives ACCT BT CAPPS CAPPS CAPPS CAPPS CAPPS IS IS | 141 172 141 142 162 172 180 144 210 | QuickBooks Publisher Word I Word II Access II PowerPoint II Outlook Programming Fundamentals Internet Programming I | 1-5 2 2 2 2 2 3 1-5 |
| BUS BUS MMGT | 105 280 223 S MA | Customer Service NAGEMENT | 3 5 3 |
| The shell | | | |

The challenge of management! It takes a special kind of person with a special knack to be a good business manager. The Business Management program at SFCC is designed to teach the basic principles of business management in order to prepare students to potentially become middle managers and junior executives.

Courses in the program include management, marketing, professional sales, principles of leadership, social media marketing, and human relations. Students are required to complete an additional fifteen credits from one of four areas of emphasis in the Business Management degree: Marketing, Small Business Management, Social Media, or General Business. Select courses from the area of emphasis that best meet your needs.

Only one AAS Degree in Business Management will be awarded.

| AAS First Qua | arter | | |
|------------------|-------|-----------------------------|---|
| BUS& | 101 | Intro to Business | 5 |
| BUS | 280 | Human Relations in Business | 5 |

| MMGT | 125 | Social Media Marketing Total | 5 15 |
|--|---|---|------------------------------------|
| Second G BUS MMGT MMGT | tuarte 123 211 231 | Practical Business Math Applications | 5 5 5 15 |
| Third Qua BUS MMGT MMGT | arter 105 101 223 | Principles of Leadership Principles of Management Customer Service Computation Elective Total | 3 5 3 5-6 16–17 |
| Fourth Q BUS& | uarter 201 | Business Law Area of Emphasis Communication Elective Total | 5 5 5 15 |
| Fifth Qua BUS BUS MMGT | rter 100 106 150 | Money Management Applied Leadership Principles of Retail Merchandising Area of Emphasis Total | 3 3 5 5 16 |
| Sixth Qua ECON | arter 100 | Fundamentals of Economics Area of Emphasis Human Relations Leadership Elective Total | 5 5 5 15 |
| 92-93 cre | dits a | re required for the AAS | |
| Area of E BUS | mpha 100 | sis: General Business Money Management | 3 |
| Area of E BUS MMGT MMGT MMGT | 140 105 128 | 0 | 3 2 5 5 |
| Area of E ACCT MMGT MMGT MMGT | mpha 219 105 106 220 | sis: Small Business Management Payroll and Business Taxes Small Business Marketing How to Start a Small Business Professional Sales | 5 2 5 3 |
| Area of E MMGT MMGT MMGT | mpha 126 128 218 | sis: Social Media Search Engine Marketing Social Media Marketing Campaign Fundamentals of Advertising | 5 5 5 |
| Commun BT BT CMST& ENGL& | icatio 107 272 101 101 | n Elective Business Communications Business Correspondence Introduction to Communication English Composition I | 5 5 5 5 |
| Computa ACCT ACCT& BUS BUS BUS MATH& MATH | tion E 141 201 124 125 217 107 201 | Elective QuickBooks Prin of Accounting I Intermediate Business Math I Consumer Math Business Statistics Math in Society Introduction to Finite Mathematics | 1-5 5 3 3 5 5 5 |

Human Relations Leadership Elective

| CMST& | 210 | Interpersonal Communication | 5 |
|-------|-----|-----------------------------|---|
| CMST | 227 | Intercultural Communication | 5 |
| PSYC& | 100 | General Psychology | 5 |

¹ General Business Area of Emphasis: Any college level courses (numbered 100 or above). Not restricted to business courses. Please see adviser for options.

Certificate

The Business Management certificate serves as an introduction to business management. The certificate can also serve as preparation for furthering one's education in the business management field. The curriculum spans a variety of business topics that can also be applied towards the two–year AAS degree in Business Management. All of the courses will help aid students in acquiring a better understanding of small business management.

First Quarter

| BUS& | 101 | Intro to Business | 5 |
|----------|--------|---|----|
| CMST | 227 | Intercultural Communication ³ | 5 |
| ECON | 100 | Fundamentals of Economics | 5 |
| | | Total | 15 |
| Second | Quarte | | |
| BUS | 123 | Practical Business Math Applications ² | 5 |
| MMGT | 211 | Marketing | 5 |
| MMGT | 231 | Human Resource Management | 5 |
| | | Total | 15 |
| Third Qu | arter | | |
| BT | 107 | Business Communications ¹ | 5 |
| BUS | 105 | Principles of Leadership | 3 |
| MMGT | 101 | Principles of Management | 5 |
| MMGT | 223 | Customer Service | 3 |
| | | Total | 16 |

46 credits are required for the Certificate

| ¹ May substitute | CMST& | 101 | or ENGL& | 101 |
|-----------------------------|-------|-----|----------|-----|
|-----------------------------|-------|-----|----------|-----|

- ² May substitute MATH& 107 or MATH 201
- ³ May substitute CMST& 210 or PSYC& 100

BUSINESS OCCUPATIONS Certificate: SCC

The Business Occupations Certificate is designed to provide a balanced survey of business knowledge and skills that are core to the General Business Associate in Applied Science degree program and most other business AAS degree programs. All students graduating from this program must have a minimum grade of 2.0 on each of the accounting, management, economics and general business required courses. Students must also have a 2.0 cumulative minimum grade point average on all required courses in the program.

| Certificate |
|-------------|
|-------------|

| First Qua | First Quarter | | | | | | |
|-----------|---------------|------------------------------------|------|--|--|--|--|
| BT | 152 | College and Career Strategies | 3 | | | | |
| BUS | 103 | Basic Business Math | | | | | |
| | | and Electronic Calculators | 5 | | | | |
| BUS | 280 | Human Relations in Business | 5 | | | | |
| CATT | 120 | Microsoft Word I | 2.5 | | | | |
| | | Total | 15.5 | | | | |
| | | | | | | | |
| Second (| Quarte | er | | | | | |
| ACCT | 151 | College Accounting I ¹ | 5 | | | | |
| CATT | 138 | Microsoft Excel I | 2.5 | | | | |
| ENGL& | 101 | English Composition I ³ | 5 | | | | |
| MMGT | 223 | Customer Service | 3 | | | | |
| | | Total | 15.5 | | | | |

Third Quarter

| 5 |
|----|
| 5 |
| 5 |
| 15 |
| |

46 credits are required for the Certificate

- ¹ ACCT 151 may be substituted with ACCT& 201.
- ² ECON 100 may be substituted with a higher level ECON course.
- ³ ENGL& 101 may be substituted with BT 272, 274.

BUSINESS SOFTWARE SPECIALIST AAS: SCC

The Business Software Specialist degree is a two-year program with classes offered online or on-campus. This program combines training in information processing systems and office administration to give students the diversified training and background needed to hold positions of responsibility in business offices. Upon completion students will be prepared for administrative positions that require advanced spreadsheet, database, presentation, and project management software. This program provides students with one or more of the following additional areas: basic computer hardware troubleshooting, online collaboration, MOS certification, or basic network administration.

In order to earn a Business Software Specialist AAS degree, a student must maintain a 2.0 GPA in all individual courses.

AAS **First Quarter** Basic Grammar for Business II 5 ΒT 105 ΒT **Computing Essentials** 5 106 College and Career Strategies 3 BT 152 102 Introduction to Outlook 2.5 CATT Total 15.5 Second Quarter Human Relations BT 127 and Professional Development 3 ΒT Skillbuilding 196 1 Basic Business Math BUS 103 and Electronic Calculators¹ 5 Introduction to PowerPoint CATT 190 2.5 MMGT 223 **Customer Service** 3 Total 14.5 **Third Quarter** Word Processing 5 BT 165 ΒT 204 Spreadsheet Design and Analysis 5 Business Writing for the Web BT 274 5 Total 15 **Fourth Quarter** Database Design and Analysis 5 ΒT 205 Advanced PowerPoint 2.5 CATT 191 241 Microsoft Project CATT 2.5 CATT 242 Advanced Microsoft Project 2.5 Mobile Devices CIS 103 5 Total 17.5 Fifth Quarter ΒT Current Trends in Technology 5 251 BT Project Management for the Office 280 2.5 Desktop Publishing CATT 128 5 CIS 201 IT Essentials - A+ 5 Total 17.5

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| Sixth C | | | |
|---------|-----|--|----|
| BT | 160 | Job Preparation Techniques | 3 |
| BT | 285 | Administrative Professional Internship | 2 |
| CIS | 112 | Web Graphics with Photoshop | 3 |
| | | Elective | 7 |
| | | Total | 15 |

95 credits are required for the AAS

| Elective | | | |
|----------|-----|---|-----|
| ACCT | 141 | QuickBooks | 1-5 |
| ACCT | 151 | College Accounting I | 5 |
| ACCT& | 201 | Prin of Accounting I | 5 |
| BT | 104 | Basic Grammar for Business I | 5 |
| BT | 206 | Electronic Records Management | 3 |
| BT | 274 | Business Writing for the Web | 5 |
| BUS& | 201 | Business Law | 5 |
| BUS | 204 | Introduction to Law | 5 |
| BUS | 280 | Human Relations in Business | 5 |
| CATT | 122 | Microsoft Access I | 2.5 |
| CATT | 222 | Advanced Microsoft Access I | 2.5 |
| CATT | 223 | Advanced Microsoft Access II | 2.5 |
| CIS | 104 | Mobile Device Management | 5 |
| CIS | 130 | HTML5/CSS II | 5 |
| CIS | 234 | Network Scripting | 3 |
| CMST | 127 | Leadership Development | 3-5 |
| CMST& | 210 | Interpersonal Communication | 5 |
| CMST | 287 | Business and Professional Communication | 3-5 |
| MMGT | 244 | Introduction to Lean Six Sigma | 2.5 |

¹ May be substituted with BT 272.

BUSINESS TECHNOLOGY AND SOFTWARE SPECIALIST AAS: SFCC

The Business and Technology Software Specialist is a two-year program of study. Students may participate in online or onground classes. Students learn about business and software technology, business organization, and management. Students apply a variety of written and oral communications, social media concepts and applications, and human relations throughout the program.

Students also gain a foundation of web page design, accounting, survey design, and management skills. Advanced classes continue to develop skills in Word, Excel, Access, and PowerPoint. Students explore current online technologies and digital devices.

This program is designed to prepare students for careers as software support specialists, business assistants, sales associates for hardware, software, and digital devices, information specialists, business assistants, and administrative assistants.

AAS

| First Quarter | | | | | | |
|---------------|---|---|--|--|--|--|
| 101 | Keyboarding | 5 | | | | |
| 101 | Intro to Business | 5 | | | | |
| 122 | Practical Business Math ¹ | 3 | | | | |
| 100 | Beginning Computer Skills | 2 | | | | |
| | Total | 15 | | | | |
| | | | | | | |
| Quarte | er | | | | | |
| 107 | Business Communications ² | 5 | | | | |
| 280 | Human Relations in Business ³ | 5 | | | | |
| 151 | Excel I | 2 | | | | |
| 152 | Excel II | 2 | | | | |
| 171 | PowerPoint I | 2 | | | | |
| | Total | 16 | | | | |
| | 101 101 122 100 Quarte 107 280 151 152 | 101 Keyboarding 101 Intro to Business 122 Practical Business Math ¹ 100 Beginning Computer Skills Total Quarter 107 Business Communications ² 280 Human Relations in Business ³ 151 Excel I 152 Excel II 171 PowerPoint I | | | | |

Third Quarter 5 **Business Correspondence** BT 272 CAPPS 161 Access I 2 5 MMGT 125 Social Media Marketing 2 **Business Technology Electives** Computation Elective 3 Total 17 **Fourth Quarter Desktop Publishing** 5 BT 258 CAPPS 180 Outlook 2 3 Internet Programming I 210 IS MMGT Search Engine Marketing 5 126 Total 15 **Fifth Quarter Business Productivity Tools** 3 BT 255 Administrative Office Management ΒT 5 260 CAPPS Access II 2 162 Electives 5 Total 15 Sixth Quarter Job Preparation Techniques 3 BT 160 **Business Elective** 5 Electives 6-8 Total 14 - 1692-94 credits are required for the AAS **Business Elective** 5 236 Virtual Business Practice BT MMGT 106 How to Start a Small Business 5 **Business Technology Electives** ACCT 141 QuickBooks 1-5 ACCT& 201 Prin of Accounting I 5 Prin of Accounting II 5 ACCT& 202 2 Publisher ΒT 172 Information Processing 5 BT 201 BUS& 201 **Business Law** 5 **Computation Elective** ACCT 103 Fundamental Bookkeeping Procedures 3 5 ACCT& Prin of Accounting I 201 BUS 100 Money Management 3 MATH& Math in Society 5 107 Electives QuickBooks ACCT 141 1-5 ACCT& 201 Prin of Accounting I 5 2 BT 172 Publisher 5 BT 201 Information Processing BT 235 Machine Transcription 5 3 BUS 105 Principles of Leadership BUS& 201 Business Law 5 CAPPS 141 Word I 2 2 CAPPS 142 Word II 2 CAPPS 241 Word III CAPPS 251 Excel III 2 2 2 CAPPS 261 Access III CAPPS PowerPoint III 271 5 IS 103 Information Technology Fundamentals IS 132 Computer Ethics & Law 5 IS **Programming Fundamentals** 3 144 Social Media Marketing Campaign MMGT 128 5 ¹ BUS 122 may be substituted with BUS 123 or MATH& 107. If taking MATH& 107, program credits increase by 2 credits. BT 107 may be substituted with ENGL& 101. BUS 280 may be substituted with CMST& 210.

BUSINESS, GENERAL AAS: SCC

The objective of this program is to permit the student maximum flexibility in designing a two-year program of study in business. The student may specialize in a particular area of business such as marketing, management, or accounting; or select courses that provide a general exposure to several areas of business.

The General Business curriculum serves the student who is uncertain about transferring to a four-year institution or who wants a curriculum that maximizes transferability and at the same time permits emphasis on business courses to a greater extent than is possible when taking the general two-year transfer program.

Such a curriculum does not permit a student to complete all the courses normally required by a four-year institution in the freshman-sophomore years; however, it is possible for the student to undertake a curriculum where many of these requirements are met and where all other completed courses taken could be accepted for elective credit by the four-year institution. All students graduating from this program must have a minimum grade of 2.0 on each of the Management, Accounting, Economic, and General Business required courses. Students must also have a 2.0 cumulative minimum grade point average on all required courses in the program.

| AAS – Option 1 | | | | | |
|-------------------------------------|--------|---|-----|--|--|
| ACCT | 151 | College Accounting I ¹ | 5 | | |
| BT | 152 | | 3 | | |
| BUS& | 101 | Intro to Business | 5 | | |
| BUS | 103 | Basic Business Math | | | |
| | | and Electronic Calculators | 5 | | |
| BUS | 104 | Business Mathematics ² | 5 | | |
| BUS | 280 | Human Relations in Business | 5 | | |
| CATT | 120 | Microsoft Word I | 2.5 | | |
| CATT | 138 | | 2.5 | | |
| ECON | 100 | Fundamentals of Economics ³ | 5 | | |
| ENGL& | 101 | English Composition I | 5 | | |
| MMGT | | | 1 | | |
| MMGT | - | | 5 | | |
| MMGT | 211 | Marketing | 5 | | |
| | | Group A,B,C,D or E Elective | 8 | | |
| | | Group A-Written Communication Elective | 5 | | |
| | | Group B-Marketing & Management Elective | | | |
| | | Group C-Computing Elective | 5 | | |
| | | Group D-Quantitative Analysis Elective | 5 | | |
| | | Total | 92 | | |
| 92 credits are required for the AAS | | | | | |
| Group A- | -Writt | en Communication Elective | | | |
| BT | 272 | Business Correspondence | 5 | | |
| BT | 274 | - | 5 | | |
| ENGL& | 102 | 0 | 5 | | |
| ENGL& | 235 | Technical Writing | 5 | | |
| | | - | | | |

Group B-Marketing & Management Elective

| BUS | 120 | International Business | 5 |
|-------|-----|-------------------------------|-----|
| BUS | 140 | International Marketing | 3 |
| BUS& | 201 | Business Law | 5 |
| BUS | 204 | Introduction to Law | 5 |
| BUS | 284 | Special Business Topics | 1-5 |
| BUS | 285 | Special Business Topics | 1-5 |
| BUS | 286 | Special Business Topics | 1-5 |
| CATT | 241 | Microsoft Project | 2.5 |
| CATT | 242 | Advanced Microsoft Project | 2.5 |
| CMST& | 101 | Introduction to Communication | 5 |
| MMGT | 125 | Social Media Marketing | 5 |
| MMGT | 205 | Small Business Planning | 5 |
| MMGT | 212 | Retailing | 5 |
| MMGT | 218 | Fundamentals of Advertising | 5 |

| MMGT MMGT MMGT MMGT | 223 231 243 288 | Customer Service Human Resource Management Fundamentals of Project Management Cooperative Education Work Experience (No Seminar) | 3 5 5 1-5 |
|--|---|---|---|
| Group C- CATT CATT CATT CATT CATT CIS CIS | | Microsoft Excel II | 2.5 2.5 5 2.5 2.5 5 3 |
| Group D- ACCT ACCT ACCT ACCT ACCT& ACCT& ACCT& ACCT& ACCT& ACCT BUS ECON& ECON& | -Quan 141 142 152 161 162 201 202 203 204 212 217 201 202 | titative Analysis Elective QuickBooks Advanced QuickBooks College Accounting II Payroll Procedures Business Tax Accounting Prin of Accounting I Prin of Accounting II Prin of Accounting III Accounting Integration Accounting Applications and Analysis Business Statistics Micro Economics Macro Economics | 5 5 5 4 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 |
| BUS BUS CMST& CMST CMST MMGT MMGT MMGT MMGT MMGT MMGT MMGT M | 100 103 210 227 287 100 181 182 183 191 192 193 100 101 121 151 mi 03 or p 100 m course or pei 141 or 151 or 099 wi ent sc | mission of instructor. permission of instructor. ACCT 201 or permission of instructor. th a 2.0 or better or appropriate | 3 555211111555 |
| AAS – Or ACCT BT BUS& BUS BUS CATT CATT ECON ENGL& | otion 2 151 152 101 103 104 280 120 138 100 101 | College Accounting I ¹ College and Career Strategies Intro to Business Basic Business Math and Electronic Calculators Business Mathematics ² Human Relations in Business Microsoft Word I Microsoft Excel I Fundamentals of Economics ³ | 5 3 5 5 5 2.5 2.5 5 5 |

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| IBE | 201 | Integrated Business | |
|------|-----|--|----|
| | | and Entrepreneurship Principles I | 10 |
| IBE | 202 | Integrated Business | |
| | | and Entrepreneurship Principles II | 10 |
| IBE | 203 | Integrated Business | |
| | | and Entrepreneurship Principles III | 10 |
| MMGT | 100 | Supervised Volunteer Experience | 1 |
| MMGT | 101 | Principles of Management | 5 |
| MMGT | 211 | Marketing | 5 |
| MMGT | 288 | Cooperative Education Work Experience | |
| | | (No Seminar) | 1 |
| | | Group A-Written Communication Elective | 5 |
| | | Total | 90 |
| | | | |

90 credits are required for the AAS

Group A–Written Communication Elective

| BT | 272 | Business Correspondence | 5 |
|-------|-----|------------------------------|---|
| BT | 274 | Business Writing for the Web | 5 |
| ENGL& | 102 | Composition II | 5 |
| ENGL& | 235 | Technical Writing | 5 |
| | | - | |

¹ ACCT 151 may be substituted with ACCT& 201.

- ² BUS 103 or proficiency test is required.
- ³ ECON 100 may be substituted with a higher level ECON course.
- ⁴ IBE 202 is taught over two quarters (winter and spring) for 5 credits each quarter.
- ⁵ BT 105 or permission of instructor.

CAD DESIGN AND DRAFTING AAS, Certificate: SCC

The CAD Design and Drafting program prepares students with the skills necessary for drafting and design using both CAD drafting and solid modeling techniques. The course of study prepares students to work in a wide range of engineering disciplines, including engineering teams for large and small manufacturing firms, consultant engineering firms, testing, and research companies to gain employment as computer aided drafters and engineering designers.

Students not only learn to draft using CAD and solid modeling techniques, but also get "hands-on" practical experience in rapid prototyping, engineering design projects, and by learning fabrication processes used in industry. Coursework includes a balance of basic skills in math and communications, as well as practical application of relevant computer assisted drafting skills in several engineering disciplines, including: mechanical, civil and structural engineering; architectural drafting; electrical and fluid power schematics; and fabrication/piping drafting.

Students are offered several options within the CAD Design and Drafting program. They may choose to complete an AAS degree in one of the following areas: CAD Design and Drafting or Mechanical Design Technology. A CAD Drafting Certificate and a Mechanical Design Technology Certificate is also available.

Disclaimer: The college cannot guarantee courses will be offered in the quarters indicated. During the period this guide is in circulation, there may be curriculum revisions and program changes. Students are responsible for consulting the appropriate academic unit or adviser for more current and specific information. The information in this guide is subject to change and does not constitute an agreement between the college and the student.

| AAS – CAD Design and Drafting First Quarter | | | | |
|--|------------|--|---------|--|
| APLED | 121 | Applied Written Communication ¹ | 4 | |
| CAD | 101 | | 3 | |
| CAD | 111 | Applied Technical Math 1 ³ | 3 | |
| CAD | 114 | Engineering Graphics/CAD 1 ⁴ | 5 | |
| | | Total | 15 | |
| Second | Quarte | | | |
| APLED | 123 | Leadership Skills for Business and Industry | | |
| CAD | 120 | Basic Blueprint Reading | 3 | |
| CAD | 121 | Applied Technical Math 2 ³ | 3 | |
| CAD | 124 | Engineering Graphics/CAD 2 | 5 | |
| | | Total | 15 | |
| Third Qu | arter | | | |
| CAD | 133 | Introduction to Design | 5 | |
| CAD | 137 | Applied Technical Math and Physics | 3 | |
| CAD | 141 | Shop Practices | 2 5 | |
| CAD | 142 | CAD Solid Modeling Total | 5 15 | |
| Fourth Q | uarte | | 15 | |
| CAD | 243 | Building Systems Mechanical | | |
| O/ (D | 240 | CAD Applications ⁵ | 3 | |
| CAD | 244 | Structural CAD Applications ⁵ | 3 | |
| CAD | 246 | Manufacturing Processes | | |
| | | and Precision Measuring | 2 | |
| CAD | 252 | CAD Solid Modeling/Graphics 2 | 4 | |
| CAD | 261 | Project Design and Management | 4 | |
| | | Total | 16 | |
| Fifth Qua | arter | | | |
| CAD | 242 | Mechanical Design Fundamentals | 4-5 | |
| CAD | 251 | Applied Tolerances and GDT | 3 | |
| CAD | 255 | Technical Applications I ⁶ | 4 | |
| CAD | 256 | Mechanical CAD Applications | 3 | |
| | | Total 1 | 4–15 | |
| Sixth Qu | arter | | | |
| APLED | 125 | Employment Preparation ¹ | 3 | |
| CAD | 260 | Fabrication and Piping CAD Applications ⁵ | 3 4 | |
| CAD | 264 | Technical Applications II ⁶ | 4 | |
| CAD CAD | 265 268 | Manufacturing and Measuring Systems Schematics/Advanced CAD | 2 3 | |
| CAD | 20ŏ | Total | ں 15 | |
| | | i otai | 15 | |
| 90-91 credits are required for the AAS | | | | |

Approved Electives

| ARCHT | 122 | Architectural Design 1 | 5-7 |
|-------|-----|--|-----|
| CAD | 258 | Schematic CAD Applications | 4 |
| CAD | 269 | Civil CAD Applications | 4 |
| ELMT | 243 | Introduction to Programmable Controllers | 4 |
| | | | |

¹ This related education requirement may be met by any course or combination of courses approved by the department dean.

- ² CAD 101 may be substituted with CIS 105,106, or 110.
 ³ This related education requirement may be met by any course or combination of courses approved by the department dean. This course may be substituted as approved by the CAD instructor or department dean with APLED 112.
- ⁴ This course may be substituted with ENGR 103 Engineering Graphics/CAD.
- ⁵ This course may be substituted with an approved elective or with co-op credits CAD 266 and 267 or CAD 288. This course may also be substituted with equivalent courses or approved Technical Design Electives form the Mechanical Design Technology certificate.
- ⁶ This course may be substituted with co-op credits CAD 266 and 267 or CAD 288.

AAS – Mechanical Design Technology

Mechanical Design Technology prepares students for advanced mechanical drafting and design using both CAD drafting and Solid Modeling techniques The course of study prepares students to work in engineering teams for large and small manufacturing firms, consultant engineering firms, testing and research companies.

Students learn the design and manufacturing processes required for a product to be developed from initial concept to final production. Students not only learn to draft using CAD and Solid Modeling techniques, but also get "hands–on" practical experience in Rapid Prototyping, live design projects, and by learning fabrication processes used in industry Coursework includes design and assembly techniques as well as shop practice techniques and shop safety The course of study includes advanced disciplines of engineering technology such as math, physics, electrical theory, statics, and strength of materials.

Disclaimer: The college cannot guarantee courses will be offered in the quarters indicated During the period this guide is in circulation, there may be curriculum revisions and program changes Students are responsible for consulting the appropriate academic unit or adviser for more current and specific information. The information in this guide is subject to change and does not constitute an agreement between the college and the student.

First Quarter

| CAD 1 CAD 1 | 121 101 111 114 | Applied Written Communication ¹ Introduction to Technology ² Applied Technical Math 1 ³ Engineering Graphics/CAD 1 ⁴ Total | 4 3 5 15 |
|-----------------------------|--|---|---|
| CAD 1 CAD 1 | larte 123 120 121 124 | r Leadership Skills for Business and Industr Basic Blueprint Reading Applied Technical Math 2 ³ Engineering Graphics/CAD 2 Total | ry ¹ 4 3 3 5 15 |
| CAD 1 CAD 1 | r ter 133 137 141 142 | Introduction to Design Applied Technical Math and Physics Shop Practices CAD Solid Modeling Total | 5 3 2 5 15 |
| CAD 2 Measuring CAD 2 | arter 244 246 252 261 | Structural CAD Applications ⁵ Manufacturing Processes and Precision 2 CAD Solid Modeling/Graphics 2 Project Design and Management Approved Technical Design Electives Total | 3 4 4-5 17–18 |
| CAD 2 CAD 2 | 242 251 255 256 | Mechanical Design Fundamentals Applied Tolerances and GDT Technical Applications I ⁶ Mechanical CAD Applications Approved Technical Design Electives Total | 4-5 3 4 3 4-5 18–20 |
| CAD 2 CAD 2 | ter 125 264 265 268 | Employment Preparation ¹ Technical Applications II ⁶ Manufacturing and Measuring Systems Schematics/Advanced CAD | 3 4 2 3 |

| ELMT | 112 | Electrical Theory ¹ | 5 |
|------|-----|--------------------------------|----|
| | | Total | 17 |

97-100 credits are required for the AAS

Approved Technical Design Electives

| CAD | 136 | Statics | 5 |
|------|-----|--|---|
| CAD | 139 | Hydraulics/Pneumatics | 3 |
| CAD | 245 | Applied Physics | 5 |
| CAD | 253 | Strength of Materials/Materials Science | 5 |
| CAD | 258 | Schematic CAD Applications | 4 |
| CAD | 260 | Fabrication and Piping CAD Applications | 3 |
| CAD | 263 | Machine Controls | 2 |
| CAD | 269 | Civil CAD Applications | 4 |
| CET | 136 | Statics | 6 |
| CET | 253 | Strength of Materials | 5 |
| ELMT | 112 | Electrical Theory | 5 |
| ELMT | 243 | Introduction to Programmable Controllers | 4 |
| FLPT | 136 | Applied Hydraulics/Pneumatics | 3 |
| PHYS | 101 | General Physics | 5 |

¹ This related education requirement may be met by any course or combination of courses approved by the instructional dean.

- ² CAD 101 may be substituted with CIS 105,106, or 110.
- ³ This related education requirement may be met by any course or combination of courses approved by the department dean. This course may be substituted as approved by the CAD instructor or department dean with APLED 112.
- ⁴ This course may be substituted with ENGR 103 Engineering Graphics/CAD.
- ⁵ This course may be substituted with an approved elective or with co-op credits CAD 266 and 267 or CAD 288. This course may also be substituted with equivalent courses or approved Technical Design Electives from the Mechanical Design Technology certificate.
- ⁶ This course may be substituted with co-op credits CAD 266 and 267 or CAD 288.

CAD Design and Drafting Certificate

| First Quarter | | |
|---|--|--|
| APLED 121 CAD 101 CAD 111 CAD 114 | Introduction to Technology ² Applied Technical Math 1 ³ | 4 3 5 15 |
| Second Quart | er | |
| APLED 123 CAD 120 CAD 121 CAD 124 | Basic Blueprint Reading Applied Technical Math 2 ³ | try ¹ 4 3 3 5 15 |
| Third Quarter | | |
| CAD 133 CAD 142 | Introduction to Design | 5 5 3-5 13–15 |
| Fourth Quarte | ar . | |
| APLED 125 CAD 252 | Employment Preparation ¹ | 3 4 6-8 13–15 |
| 56-60 credits | are required for the Certificate | |
| Approved CA ARCHT 122 | | 5-7 |
| CAD 242 | Mechanical Design Fundamentals | 5-7 4-5 |
| CAD 243 | Building Systems Mechanical CAD Applications | 3 |
| | | |

| CAD | 244 | Structural CAD Applications | 4 |
|------|-----|--|---|
| CAD | 246 | Manufacturing Processes | |
| | | and Precision Measuring | 3 |
| CAD | 254 | Materials Science | 2 |
| CAD | 258 | Schematic CAD Applications | 4 |
| CAD | 260 | Fabrication and Piping CAD Applications | 3 |
| CAD | 268 | Schematics/Advanced CAD | 3 |
| CAD | 269 | Civil CAD Applications | 4 |
| CET | 122 | Surveying Theory | 4 |
| ELMT | 243 | Introduction to Programmable Controllers | 4 |

This related education requirement may be met by any course or combination of courses approved by the instructional dean.

2 CAD 101 may be substituted with CIS 105,106 or 110.

- 3 This related education requirement may be met by any course or combination of courses approved by the department dean. This course may be substituted as approved by the CAD instructor or department dean with APLED 112.
- This course may be substituted with ENGR 103 Engineering Graphics/CAD.
- This course may be substituted with an approved elective or with co-op credits CAD 266 and 267 or CAD 288. This course may also be substituted with equivalent courses or approved Technical Design Electives from the Mechanical Design Technology certificate.

Mechanical Design Technology Certificate

Mechanical Design Technology Certificate is an advanced certificate available to CAD Design and Drafting students. The course of study adds advanced disciplines of engineering technology such as math, physics, electrical theory, statics, and strength of materials to the basic design skills developed in the CAD Design and Drafting degree.

Prerequisite: CAD Design and Drafting AAS degree See CAD Design and Drafting outline for individual courses that may be substituted with courses from this certificate.

First Quarter

| CAD 261 | Project Design and Management Approved Technical Design Electives ¹ Total | 4 8-10 12–14 |
|--|---|---------------------------------|
| Second Quar CAD 242 CAD 255 | Mechanical Design Fundamentals | 4-5 5 4-5 13–15 |
| Third QuarterCAD142CAD26438-45 credits | CAD Solid Modeling | 5 4 4-7 13–16 |

Approved Technical Design Electives

| CAD | 136 | Statics | 5 |
|------|-----|--|---|
| CAD | 139 | Hydraulics/Pneumatics | 3 |
| CAD | 245 | Applied Physics | 5 |
| CAD | 253 | Strength of Materials/Materials Science | 5 |
| CAD | 258 | Schematic CAD Applications | 4 |
| CAD | 260 | Fabrication and Piping CAD Applications | 3 |
| CAD | 263 | Machine Controls | 2 |
| CAD | 269 | Civil CAD Applications | 4 |
| CET | 136 | Statics | 6 |
| CET | 253 | Strength of Materials | 5 |
| ELMT | 112 | Electrical Theory | 5 |
| ELMT | 243 | Introduction to Programmable Controllers | 4 |
| FLPT | 136 | Applied Hydraulics/Pneumatics | 3 |
| PHYS | 101 | General Physics | 5 |
| | | | |

- This course may be substituted with a course from the Approved Technical Design Electives list or the CAD Design and Drafting AAS program to keep each quarter within the credit range and within the overall program credits required for a certificate.
- 2 This course may be substituted with CAD 266 and 267 or CAD 288.

CERTIFIED ASSOCIATE IN HEALTHCARE INFORMATION/ MANAGEMENT SYSTEMS (CAHIMS) PREP **Certificate: SCC**

This certificate offers an overview of healthcare, health information technology, and health information management systems. The focus is on the role and responsibilities of entrylevel IT specialists in each phase of the health information management systems lifecycle. The curriculum is aligned to the new CAHIMS (Certified Associate in Healthcare Information and Management Systems) certification administered by HIMSS (Health Information Management Systems Society). This certificate is designed for students who have previous degree orexperience in IT or in healthcare and is designed as a career pathway into health IT careers.

"Those who sit for the (CAHIMS) exam and pass it will become armed with a valuable credential, qualifying them to facilitate and improve the quality of health IT and business management systems across the healthcare setting." From the CAHIMS site: http://www.himss.org/asp/certification_cahims.aspx

Students entering this certificate program should have a background in either information technology and/or health care. Successful applicants will likely:

- have a minimum of 3 years recent experience in either health care or informational technology, or
- have recently successfully completed either a health carerelated or information technology-related degree or certificate program, or
- in the case of a current health care or information technology student, be very close to completion of their program.

Certificate

| First Qu | larter | | |
|----------|--------|---|-----|
| HIM | 219 | Healthcare Environment | |
| | | and Professional Skills | 5 |
| HIM | 220 | Health Technology Environment and Securit | у 5 |
| HIM | 221 | HIMS Systems Analysis, Implementation | |
| | | and Maintenance | 5 |
| | | Total | 15 |
| | | | |

15 credits are required for the Certificate

CHEMISTRY PRE-MAJOR AA-DTA, AS-T 1: SCC/SFCC

Chemistry is the "central science" of a wide range of studies, exploring the structures and transformations of matter down to the molecular level. Since chemistry is foundational to all technology advances, Chemistry majors find employment in a variety of professions. Majoring in Chemistry also provides excellent background for graduate studies in pharmacy, environmental sciences, chemical engineering, biotechnology, nutrition, medicine, and dentistry, among others.

Recent employment surveys show that about two-thirds of chemists work in various industrial fields. These include, but are not limited to, development of pharmaceutical drugs, computer technology, petroleum processing, environmental toxicology, and forensic sciences. About one-fourth of the chemists teach

and/or do research in academic institutions. Chemists also work in less technical fields, serving as managers, attorneys, journalists, etc., either in government agencies or the private sector.

| AA-DTA | Suggested Courses to Consider ¹ Total | 90 90 |
|----------------|--|-----------------|
| 90 credits are | required for the AA–DTA | |

| AS–T 1 | | |
|--------|--|----|
| | Suggested Courses to Consider ¹ | 90 |
| | Total | 90 |

90 credits are required for the AS-T 1

¹ Consult a counselor or academic adviser for recommended courses specific to student's choice of transfer institution.

CHIROPRACTIC PRE-MAJOR AA–DTA, Associate in Biology DTA/MRP: SCC/SFCC

Chiropractic is a system of treatment based on the principle that a person's health is determined largely by the nervous system, and that interference with this system impairs normal functions and lowers resistance to disease. Chiropractors treat their patients primarily by manual manipulation of parts of the body, especially the spinal column.

AA-DTA

| Suggested Courses to Consider ¹ | 90 |
|--|----|
| Total | 90 |

90 credits are required for the AA–DTA

Associate in Biology DTA/MRP

| Suggested Courses to Consider ¹ | 90 |
|--|----|
| Total | 90 |

90 credits are required for the Associate in Biology DTA/MRP

¹ Consult a counselor or academic adviser for recommended courses specific to student's choice of transfer institution.

CLERICAL ASSISTANT Certificate: SCC

The Clerical Assistant program is a two quarter program where students learn general office skills needed for entry–level office positions. Students may select one of three "tracks" in the second quarter. The first track will offer an introduction to the medical clerical assistant office, the second track an introduction to the legal clerical assistant office, and the third track an introduction to the administrative clerical assistant office.

Students develop effective written communication, oral communication, customer service, keyboarding, document formatting, office procedures, telephone, scheduling and calendaring, and job preparation skills. In addition, students who select the medical clerical assistant track will understand basic medical terminology; students who select the legal clerical assistant track will understand basic legal terminology; and students who select the administrative clerical assistant track will have additional grammar, editing, and proofreading experience.

Certificate – Administrative Clerical Assistant First Quarter

| BT | 105 | Basic Grammar for Business II | 5 |
|----|-----|-------------------------------|---|
| BT | 106 | Computing Essentials | 5 |

| BT | 152 | College and Career Strategies | 3 |
|------|-----|-------------------------------|------|
| CATT | 102 | Introduction to Outlook | 2.5 |
| | | Total | 15.5 |

Second Quarter

| BT | 127 | Human Relations | |
|------|-----|------------------------------|------|
| | | and Professional Development | 3 |
| BT | 196 | Skillbuilding | 1 |
| BUS | 103 | Basic Business Math | |
| | | and Electronic Calculators | 5 |
| CATT | 190 | Introduction to PowerPoint | 2.5 |
| MMGT | 223 | Customer Service | 3 |
| | | Total | 14.5 |

30 credits are required for the Certificate

Certificate – Legal Clerical Assistant First Quarter

| BT | 105 | Basic Grammar for Business II | 5 |
|------|-----|-------------------------------|------|
| BT | 106 | Computing Essentials | 5 |
| BT | 152 | College and Career Strategies | 3 |
| CATT | 102 | Introduction to Outlook | 2.5 |
| | | Total | 15.5 |

Second Quarter

| BT | 127 | Human Relations | |
|------|-----|------------------------------|----|
| | | and Professional Development | 3 |
| BT | 196 | Skillbuilding | 1 |
| BUS | 103 | Basic Business Math | |
| | | and Electronic Calculators | 5 |
| LSEC | 236 | Legal Terminology | 5 |
| | | Total | 14 |

29.5 credits are required for the Certificate

Certificate – Medical Clerical Assistant

| First Qua | rter | | |
|-----------|------|-------------------------------|------|
| BT | 105 | Basic Grammar for Business II | 5 |
| BT | 106 | Computing Essentials | 5 |
| BT | 152 | College and Career Strategies | 3 |
| CATT | 102 | Introduction to Outlook | 2.5 |
| | | Total | 15.5 |

Second Quarter

| 0000114 | a uui tu | , , , , , , , , , , , , , , , , , , , | |
|---------|----------|---------------------------------------|----|
| BT | 127 | Human Relations | |
| | | and Professional Development | 3 |
| BT | 196 | Skillbuilding | 1 |
| HED | 104 | Medical Terminology and Anatomy | 5 |
| MSEC | 108 | Medical Office Computing | 5 |
| | | Total | 14 |
| | | | |

29.5 credits are required for the Certificate

COMMUNICATION STUDIES PRE-MAJOR AA-DTA: SCC/SFCC

Speaking and listening are the most used means of communication. Career opportunities for students trained in communication studies are found in the areas of public relations, personnel, human resource management, drama, education, intercultural communication, diversity training, and speech correction. A broad training in communication studies also provides an excellent background for human services, legal, political, and business careers.

The communication studies courses meet the needs of students desiring to improve interpersonal, group, and public speaking skills to fulfill graduation requirements, or to complete the first two years of a transfer program to a four–year institution with a major or minor in communication studies, drama or radio–television.

| Suggested Courses to Consider ¹ | 90 |
|--|----|
| Total | 90 |

90 credits are required for the AA-DTA

¹ Consult a counselor or academic adviser for recommended courses specific to student's choice of transfer institution.

COMPUTER AND NETWORK SUPPORT Certificate: SFCC

This certificate concentrates on the practical operation, maintenance and use of computers, computer networks and their peripherals. This intensive hands—on program prepares the certificate holder to maintain the hardware and software of small to medium computer and network systems. Computers are networked in LANs and on the Internet in homes, industries and offices. This program teaches students to maintain and keep these systems running. Students also learn to assist and train computer users in the use of modern software and hardware.

This certificate is intended to prepare students for entry–level positions in computer/network support departments or as the computer/network specialist in a small to medium size office. Students are expected to have other skills needed to integrate this certificate with the skills necessary for the nature of employment they have or seek.

Certificate

It is recommended that students take IS 103 – Information Technology Fundamentals, IS 144 – Programming Fundamentals and IS 160 – Internet Fundamentals.

First Quarter

| IS IS IS | 132 162 260 | | 5 3 5 13 |
|----------------|-------------------|--|--------------------------|
| Second C | Quarte | er | |
| IS | 140 | Computer and Network Support | 5 |
| IS | 244 | Network Security I | 5 |
| IS | 262 | | 5 |
| | | Total | 15 |
| Third Qu | arter | | |
| BUS | 280 | Human Relations in Business ¹ | 5 |
| CS | 121 | UNIX/Linux | 3 |
| IS | 210 | Internet Programming I | 3 |
| IS | 228 | Internet Servers | 5 |
| | | Total | 16 |

44 credits are required for the Certificate

¹ BUS 280 may be substituted with HS 136.

COMPUTER FORENSICS/NETWORK SECURITY Certificate: SFCC

The Computer Forensics/Network Security program is designed to provide students with capabilities in several areas of computing:

- Digital evidence recovery
- · Forensic laboratory analysis
- Legal and technical issues regarding seizure and acquiring computer evidence, and chain of custody
- Computer network protocols and security, intrusion detection, and network forensics

This certificate is intended to provide students with the essential skills, knowledge and experience necessary to deal with computer forensics and computer/network security.

NOTE: This certificate is not for beginners; please contact the department for more information.

| Cer | ti | fica | ite |
|-----|----|------|-----|
| | | - | |

| | - | | |
|-----------|-------|----------------------------------|----|
| First Qua | rter | | |
| IS | 132 | Computer Ethics & Law | 5 |
| IS | 162 | Data Communications and Networks | 3 |
| IS | 210 | Internet Programming I | 3 |
| IS | 260 | Database Theory | 5 |
| | | Total | 16 |
| Second Q | uarte | r | |
| IS | 234 | Computer Forensics I | 5 |
| IS | 244 | Network Security I | 5 |
| IS | 262 | Network Management | 5 |
| | | Total | 15 |
| Third Qua | arter | | |
| CS | 121 | UNIX/Linux | 3 |
| IS | 236 | Computer Forensics II | 5 |
| IS | 245 | Network Security II | 5 |
| | | Total | 13 |

44 credits are required for the Certificate

COMPUTER SCIENCE PRE-MAJOR AS-T 2: SFCC

The Associate in Computer Science (AS-T #2) degree is an articulated transfer agreement for computer science majors between community colleges and most four-year institutions within the state of Washington. This degree shall only be granted to students who have earned a cumulative grade point average of 2.0. Students will enter the four-year institution at junior standing. Admission to Washington four-year institutions' schools of education is not guaranteed to students holding an Associate in Computer Science AS-T #2 degree. It is highly recommended that students meet with a counselor or academic adviser at Spokane Falls Community College on a regular basis to be sure that the requirements specified in this degree are met. Students should also seek academic advising at the four-year institution to which they plan to transfer early in their educational planning to learn about additional requirements and procedures for admission. To earn this degree, students must complete a minimum of 90 credits in academic courses numbered 100 or above and meet specific distribution requirements. Courses must be chosen from the following specified distribution areas: communication -5 credits, humanities/social sciences -15 credits, mathematics -25 credits, science -20 credits, and 25 credits in computer science courses. At least 5 credits must be W-designated (writing-intensive). At least 30 credits must be earned from Spokane Community College or Spokane Falls Community College with at least 15 credits earned in residence at the college awarding the degree or certificate. At SFCC, all prior college-level credits and grade points are transferred for calculating total credits and GPA. This degree does not fulfill all general education requirements of fouryear institutions.

Use this program outline in conjunction with the degree worksheet which shows a full course listing for each distribution area. Consult a counselor or academic adviser for recommended courses specific to student's choice of transfer institution.

AS-T 2 First Quarter

| FIISt Qua | rter | | |
|-----------|------|--------------------------------------|---|
| CHEM& | | General Chem: w/Lab I | 5 |
| CS& | 141 | Computer Science I Java ¹ | 5 |

| MATH& | 151 | Calculus I Total | 5 15 | | |
|--------------|--|--|----------------|--|--|
| Second C | luarte | | | | |
| CS | 142 | | 5 | | |
| MATH& | 152 | Calculus II Humanities/Social Sciences Elective | 5 5 | | |
| | | Total | 15 | | |
| Third Qua | arter | | | | |
| ENGL& | 101 | English Composition I | 5 | | |
| MATH& | 153 | Calculus III ² Humanities/Social Sciences Elective | 5 5 | | |
| | | Total | 15 | | |
| Fourth Q | | | | | |
| CS | 211 | C for Programmers ¹ | 5 5 | | |
| MATH PHYS | 220 201 | Elementary Linear Algebra ¹ Engineering Physics I ¹ | ว 5 | | |
| | 201 | Total | 15 | | |
| Fifth Qua | rter | | | | |
| CS | 253 | Object-Oriented Programming with C++ ¹ | 5 | | |
| PHYS | 202 | Engineering Physics II ¹ Humanities/Social Sciences Elective | 5 5 | | |
| | | Total | 15 | | |
| Sixth Qua | arter | | | | |
| CS | 280 | Data Structures ¹ | 5 | | |
| MATH PHYS | 245 203 | Discrete Mathematics ² Engineering Physics III ¹ | 5 5 | | |
| 1115 | 203 | Total | 15 | | |
| 90 credits | 90 credits are required for the AS-T 2 | | | | |

¹ This course offered at SFCC only.

² Math 221 may be taken instead of Math& 153 or MATH 245. Consult a counselor or adviser for recommended course.

CORRECTIONS AAS: SCC

The Corrections and Security curriculum is made up of courses designed to prepare students for a career in the corrections arena with an emphasis on developing skills and knowledge that pertain to working in correctional facilities.

The Corrections program is an outgrowth of recognition of the increasing need for trained personnel in the field. This area of criminal justice is experiencing a great deal of change and expansion. New trends in inmate management and new standards for offender care have contributed to an increased need for employment of more people who possess skills and knowledge applicable to a variety of job requirements.

Students in this field are encouraged to seek academic counseling. Only a portion of this two-year curriculum is transferable to four-year institutions. Students interested in a four-year degree should inquire at the college to which they plan to attend or transfer for specific information.

This is a recommended course of study. Students may take required courses any time they are offered. (Not all classes are offered every quarter.)

Program Requirements: admittance to the Criminal Justice core classes requires the student's age to be 18 or with instructor's permission. All students are required to carry student accident insurance throughout their enrollment in the Criminal Justice program. Any student with an arrest record must have the department chair approval to take any Criminal Justice classes and/or to enter the Criminal Justice program. AAS 102 Administration of Justice 5 CJ CJ& 105 Intro to Corrections 5 106 Introduction to Juvenile Control 3 CJ 5 **Dynamics of Deviant Behavior** CJ 107 5 CJ Criminal Justice Report Writing 150 CJ Introduction to Criminal Law 5 205 CJ 209 Human Relations 3 **Professional Development** CJ 212 1 Corrections-Security-Practice and Procedure CJ 215 5 Advanced Report Writing ³ CJ 217 5 Advanced Techniques CJ 225 in Correctional Programming 5 CJ 227 **Minority Studies** 5 228 Ethics - Standards of Conduct 3 CJ CJ 230 Institutional Programming 3 Criminal Justice Self-defense² 3 1 237 CJ CJPE Criminal Justice Physical Training¹ 132 Introduction to Communication ³ CMST& 5 5 2 5 101 CMST& Interpersonal Communication³ 210 EMS 120 Basic First Aid in the Workplace English Composition I³ ENGL& 101 Math Electives 4 5 Recommended Corrections Electives ⁶ 3 Recommended Liberal Arts Electives ⁵ 15 Recommended PE Electives 2 Total 104

104 credits are required for the AAS

Recommended Corrections Electives

| CJ | 266 | Cooperative Education Seminar | 1 |
|--------|-------|---------------------------------------|-----|
| CJ | 267 | Cooperative Education Work Experience | 1-2 |
| | | | |
| Recomm | ended | PE Electives | |
| CJPE | 133 | Criminal Justice Physical Training | 1 |
| CJPE | 241 | Criminal Justice Physical Training | 1 |
| CJPE | 242 | Criminal Justice Physical Training | 1 |
| CJPE | 243 | Criminal Justice Physical Training | 1 |
| PE | 186 | Fast Fitness, Beginning | 1 |

¹ Requires medical insurance; a doctor's release if needed and a fitness assessment. Repeating this CJPT course is authorized for graduation.

- ² Students must pass one quarter of CJPT to enroll in this course.
- ³ This course may be substituted with any course or combination of courses approved by the instructional dean.
- ⁴ This math course may be substituted with APLED 112, BUS 103 or any math course numbered 100 or above.
- ⁵ Any course acceptable for an AA degree, except physical education and aquatics courses. Any business, business technology, computer information systems, management or marketing courses numbered 100 or higher.
- ⁶ CJ 266 and 267 must be taken concurrently or may be substituted with any criminal justice course.

COSMETOLOGY AAS: SCC

Cosmetology is a diverse field that offers a variety of employment opportunities. SCC's Cosmetology program provides the education and training needed to successfully compete in today's job market. Upon successful completion of the 1,600 hour program, students are prepared to take the Washington State Board Exams. After passing this exam, they will be qualified to receive a license for Cosmetology.

This program includes haircutting, trimming of facial hair, hair styling, permanent waving, chemical relaxing, tinting and bleaching, and temporary superfluous hair removal; artificial hair; manicuring and pedicuring of natural nails; basic skin care and

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theory of diseases and disorders of the scalp, skin, hair and nails; and anatomy as it relates to cosmetology. In addition, safety and sanitation measures are stressed throughout the program. Students also must complete a first aid class. Students will be given review testing and simulated performance evaluations in preparation for the state licensing examination.

Students must complete the program and pass the exit exams in order to be prepared to take the Washington State examination for Cosmetology.

Additional requirements for the AAS degree consist of general education requirements in the areas of written communication, human relations/leadership and computation. Students should check with the counseling department for assistance in planning their schedules.

Program Requirements:

- Students must maintain a 2.1 in all professional classes to complete the program and pass exit exams with a minimum score of 2.1 to be prepared to take the Washington state licensing exam for cosmetology.
- Upon successful completion of the coursework, the student will be prepared to take the Washington State Examination of Cosmetology.

Physical Requirements:

- Normal or corrected vision
- Physical dexterity, i.e., small grasp manipulation
- Must be able to work with arms at shoulder level for extended periods of time
- Must be able to stand for extended periods of time

AAS

| First Qua APLED APLED CIS COS | arter 112 121 110 101 | Applied Mathematics ¹ Applied Written Communication ¹ Introduction to Computer Applications ² Introduction to Cosmetology ³ Total | 5 4 5 2 16 |
|---|-----------------------------------|--|-------------------------------|
| Second (| Quarte | er | |
| COS | 111 | Cosmetology, Esthetics | |
| COS | 112 | and Manicuring Concepts I Cosmetology, Esthetics and Manicuring Applications I Total | 5 12 17 |
| Third Qu | arter | | |
| COS | 121 | Cosmetology, Esthetics | |
| | | and Manicuring Concepts II | 5 |
| COS | 122 | Cosmetology, Esthetics and Manicuring Applications II Total | 11 16 |
| Fourth Q | uarter | | |
| COS | 131 | | 5 |
| COS | 132 | Intermediate Cosmetology Applications I Total | 11 16 |
| Fifth Qua | arter | | |
| COS | 241 | Intermediate Cosmetology II | 5 |
| COS | 242 | Intermediate Cosmetology Applications II | 10 |
| EMS | 120 | Basic First Aid in the Workplace Total | 2 17 |
| Sixth Qu | arter | | |
| APLED | 125 | Employment Preparation ⁴ | 3 |
| COS | 251 | Advanced Cosmetology I | 5 |

| COS | 252 | Advanced Cosmetology Applications I ⁵ Total | 10 18 |
|----------|--------|---|-----------------|
| Seventh | | | _ |
| COS | 261 | Advanced Cosmetology II | 5 |
| COS | 262 | Advanced Cosmetology Applications II ⁵ | 10 |
| MMGT | 205 | Small Business Planning ⁶ | 5 |
| | | Total | 20 |
| Eighth Q | uarter | | |
| | | Approved Cosmetology Electives ⁷ Approved Credits | 0-13 |
| | | for Additional Coursework ⁸ | 0-5 |
| | | Total | 0–18 |
| | | | 0 10 |

120-138 credits are required for the AAS

Approved Cosmetology Electives

| COS | | Cooperative Education Work Experience | |
|------|-----|--|-----|
| | | (No Seminar) ⁹ | 1-3 |
| FILM | 207 | Basic Movie Making Techniques ⁷ | 5 |

- ¹ This related education requirement may be met by any course or combination of courses approved by the instructional dean or department chair. A minimum grade of 1.5 must be achieved in APLED 112 and 2.0 in APLED 121.
- ² CIS 110 is offered online and/or can be taken as CIS 105 for five credits. A minimum grade of 1.5 must be achieved in CIS 110.
- ³ A minimum grade of 2.1 must be achieved in COS 101.
- ⁴ APLED 125 is offered online. This related education requirement may be met by any course or combination of courses approved by the instructional dean or department chair. APLED 125 may be substituted with HUM 207 if seeking additional eighth guarter dean issued certificate.
- ⁵ COS 252 or COS 262 may be substituted with COS 288. Washington State licensure requirements allow up to 10% of student academic instruction to be met by an on-site instructional experience at a beauty salon.
- ⁶ MMGT 205 may be substituted with HUM 141 if seeking additional eighth guarter dean issued certificate.
- ⁷ Approved electives: COS 288 and HUM 141, FILM 207 may be taken by currently enrolled AAS degree Cosmetology students desiring to receive additional training during the summer quarter (8th quarter) instructor permission required. Completion of these courses will entitle the student to a certificate of completion issued by the dean of instruction for technical education only and not a state issued certificate.
- ⁸ COS 275 is available for students who have not accumulated enough hours to satisfy the Cosmetology AAS degree requirements.
- ⁹ Co-Op enrollment is available with permission of the instructor.

CRIMINAL JUSTICE AAS, Certificate: SCC

The Criminal Justice curriculum is made up of courses and a carefully selected group of general education requirements designed to prepare each student for a career in the field of criminal justice. These courses prepare students with theory and practical skills in the areas of patrol procedures, criminal law, criminal procedures, marksmanship, physical training, investigations, interview, communications and human relations.

Students are carefully counseled in order to ensure they are able to enter a law enforcement agency of their choice. This counseling process includes physical, mental and emotional areas, as well as background requirements. Students are required to take various examinations common to the field of criminal justice. These examinations include quarterly physical training assessments. Passing these physical training assessments is a prerequisite to CJ 237.

Students in this field are encouraged to seek academic counseling. Only a portion of this two-year AAS degree is transferable to four-year institutions. Students interested in fouryear degrees should inquire at the college to which they plan to transfer for specific information.

Credits from the police academy training can apply toward meeting the course requirements of this program.

A prior criminal, traffic or drug history may exclude individuals from employment. For further information, contact a program instructor.

This is a recommended course of study. Students may take required courses any time they are offered. (Not all classes are offered every quarter.)

Program Requirements: admittance to the Criminal Justice core classes requires the student's age to be 18 or with instructor's permission. All students are required to carry student accident insurance throughout their enrollment in the Criminal Justice program. Any student with an arrest record must have the department chair approval to take any Criminal Justice classes and/or to enter the Criminal Justice program.

AAS

| AQUAT | 101 | Beginning Swimming | 1 |
|-------|-----|---|----------------|
| CJ& | 101 | Intro to Criminal Justice | 5 |
| CJ | 102 | Administration of Justice | 5 |
| CJ | 103 | Police Organization and Administration | 3 |
| CJ | 104 | Crime Scene Diagramming | 5 |
| CJ | 108 | Introduction to Traffic Investigation ¹ | 3 |
| CJ | 150 | Criminal Justice Report Writing | 5 |
| CJ | 200 | Officer's Survival ³ | 5 |
| CJ | 201 | Laws of Arrest, Search and Seizure ⁴ | 5 |
| CJ | 203 | Police Interviewing Techniques | 3 |
| CJ | 205 | Introduction to Criminal Law ⁴ | 5 |
| CJ | 209 | Human Relations | 3 |
| CJ | 210 | Police Psychology | 3 |
| CJ | 211 | Crime Scene Investigations ⁵ | 6 |
| CJ | 212 | Professional Development | 1 |
| CJ | 217 | Advanced Report Writing | 5 |
| CJ | 228 | Ethics - Standards of Conduct | 3 |
| CJ | 235 | Firearms Safety ⁶ | 2 2 |
| CJ | 236 | Firearms Qualifications ⁶ | 2 |
| CJ | 237 | Criminal Justice Self-defense ⁷ | 3 |
| CJPE | 132 | Criminal Justice Physical Training ² | 1 |
| CJPE | 133 | Criminal Justice Physical Training ² | 1 |
| CJPE | 241 | Criminal Justice Physical Training ² | 1 |
| CJPE | 242 | Criminal Justice Physical Training ² | 1 |
| CJPE | 243 | Criminal Justice Physical Training ² | 1 |
| CMST& | 101 | Introduction to Communication | 5 |
| CMST& | 210 | Interpersonal Communication | 5 |
| ENGL& | 101 | English Composition I | 5 |
| | | Math ⁸ | 5 |
| | | Recommended Criminal Justice Electives ¹ | ⁰ 3 |
| | | Recommended Liberal Arts Electives ⁹ | 15 |
| | | Total | 116 |

116 credits are required for the AAS

Recommended Criminal Justice Electives

| CJ | 266 | Cooperative Education Seminar | 1 |
|----|-----|---------------------------------------|-----|
| CJ | 267 | Cooperative Education Work Experience | 1-2 |

¹ CJ 101, 102 and 104.

² Requires medical insurance and a doctor's release if needed; requires fitness assessment. Repeating these CJPT courses are authorized for graduation.

- ³ CJ 150, 201, 205 and 237.
- ⁴ CJ 101 and 102.
- ⁵ CJ 104, 150, 201, 203 and 205.
- ⁶ CJ 235 and 236 must be taken concurrently.
- Passing one quarter of CJPT is required before taking this course.
- ⁸ This math course may be substituted with APLED 112, BUS 103 or any math course numbered 100 or above.
- ⁹ Any course acceptable for an AA degree, except physical education and aquatics courses. Any business, business technology, computer information systems, management or marketing courses numbered 100 or higher.
- ¹⁰ CJ 266 and CJ 267 must be taken concurrently or may be substituted with any criminal justice course.

Law Enforcement Certificate

This Law Enforcement Certificate program is designed for students who wish to obtain skills in law enforcement as minimum entry requirements for the industry. Permission of the instructor is required for admission to the program.

First Quarter

| CJ CJ CJ& CJ& | 101 104 108 150 | Crime Scene Diagramming Introduction to Traffic Investigation ¹ | 5 5 3 5 18 |
|------------------------|--------------------------|---|-------------------------------|
| Second C | Quarte | r | |
| CJ | 200 | | 5 |
| CJ | 201 | Laws of Arrest, Search and Seizure ³ | 5 |
| CJ | 205 | Introduction to Criminal Law ³ | 5 |
| CJ | 237 | Criminal Justice Self-defense ⁴ | 3 |
| | | Total | 18 |
| Third Qua | arter | | |
| CJ | 235 | Firearms Safety ⁵ | 2 |
| CJ | 236 | Firearms Qualifications ⁵ | 2 |
| CMST& | 210 | | 5 |
| ENGL& | 101 | English Composition I | 5 |
| | | Math ⁶ | 5 |
| | | Total | 19 |

55 credits are required for the Certificate

¹ CJ& 101 and 104.

² CJ 150, 201, 205 and 237.

- ⁴ Passing one quarter of CJPT is required before taking this course.
- ⁵ CJ 235 and 236 must be taken concurrently.
- ⁶ This math course may be substituted with APLED 112, BUS 103 or any math course numbered 100 or above.

CULINARY ARTS AAS: SCC

Basic and advanced procedures in food preparation are included in the two-year Culinary Arts program. A detailed study is made of the various cooking methods for meats, fish, poultry, vegetables, soups and sauces. Menu terminology and cooking terms are defined and illustrated. Students are given the opportunity to study management factors affecting food cost control, specifications and standards for foods, sanitation, kitchen planning, kitchen equipment, and personnel policies.

This program is accredited by the American Culinary Federation (ACF).

Students must complete all courses with a 2.0 grade or better before advancing to subsequent quarters.

³ CJ& 101.

| AAS | | | |
|-----------|--------|---|----|
| First Qua | rter | | |
| CUL | 110 | Introduction to Culinary Arts | 5 |
| CUL | 115 | | 3 |
| EMS | 120 | Basic First Aid in the Workplace | 2 |
| HM | 112 | Hospitality Mathematics | 3 |
| HM | 130 | Human Relations | 5 |
| | | Total | 18 |
| Second C | luarte | er | |
| APLED | 121 | Applied Written Communication | 4 |
| CUL | 124 | | 10 |
| CUL | 126 | Food Science | 5 |
| | | Total | 19 |
| Third Qua | arter | | |
| CUL | 253 | Advanced Cooking Theory | 5 |
| CUL | 254 | A la Carte Cooking I | 10 |
| HM | 116 | Nutrition for Chefs and Restaurant Managers | |
| | | Total | 18 |
| Fourth Q | uarter | | |
| CUL | 255 | Menu Planning | 3 |
| CUL | 260 | | 1 |
| CUL | 263 | , | 5 |
| CUL | 264 | A la Carte Cooking II | 9 |
| | | Total | 18 |
| Fifth Qua | rter | | |
| BAK | 140 | Yeast Doughs | 1 |
| CUL | 243 | Theory of Restaurant Baking | 5 |
| CUL | 244 | Restaurant Baking Applications | 10 |
| CUL | 265 | Hospitality Cost Controls | 5 |
| | | Total | 21 |
| Sixth Qua | | _ | |
| CUL | 123 | Espresso | 2 |
| CUL | 127 | Banquet Service | 2 |
| CUL | 131 | A la Carte Service | 9 |
| | | Total | 13 |
| 107 credi | ts are | required for the AAS | |

¹ This course may be substituted with any course or combination of courses approved by the instructional dean.

 ² This course is required for certification by the Educational Foundation of the National Restaurant Association.

CUSTOMER SERVICE REPRESENTATIVE AAS: SCC

The Customer Service degree is a two-year professional program. The Customer Service Representative program provides the business background and human relations skills needed to work successfully with clients and customers. Students may participate in online or on-ground classes. This degree prepares students for jobs as customer service representatives. An associate's degree in customer service introduces students to techniques used to deliver quality customer service care. Students develop their communication, marketing, personnel supervision and customer relations skills. Subjects taught during a customer service training program are a combination of business and customer service specific courses. These individuals are the face of the company and are the ones who deal with customers in a friendly and courteous manner. Customer service professionals are required to interact with customers before, during, and after the sale has been made as well. Customer service training program graduates will also have a better chance of reaching the supervisory or management levels in this field.

College credit toward degree completion may be earned by articulating from a high school business program, by prior learning assessment, or by completing comprehensive tests administered by the Business Technology Department.

In order to earn a Customer Service Representative AAS degree, a student must maintain a 2.0 GPA in all individual courses.

| AAS | | | |
|-----------------|--------------|--|------------|
| First Qua BT | | Pasia Crommor for Business II | F |
| BТ | 105 106 | Basic Grammar for Business II Computing Essentials | 5 5 |
| BT | 152 | College and Career Strategies | 3 |
| CATT | 102 | Introduction to Outlook | 2.5 |
| | | Total | 15.5 |
| Second | Quarte | er | |
| BT | 127 | | |
| DT | 400 | and Professional Development | 3 |
| BT BUS | 196 103 | Skillbuilding Basic Business Math | 1 |
| BU3 | 103 | and Electronic Calculators | 5 |
| CATT | 190 | Introduction to PowerPoint | 2.5 |
| MMGT | 223 | Customer Service | 3 |
| | | Total | 14.5 |
| Third Qu | arter | | |
| BT | 272 | Business Correspondence ¹ | 5 |
| CATT | 120 | Microsoft Word I ² | 2.5 |
| CATT CATT | 121 138 | Microsoft Word II ² Microsoft Excel I ³ | 2.5 2.5 |
| CATT | 130 | Microsoft Excel II ³ | 2.5 |
| 0/111 | 100 | Total | 15 |
| Fourth Q | uartei | r | |
| ACCT | 151 | | 5 |
| BT | 231 | Office Procedures | 5 |
| BUS& | 101 | Intro to Business | 5 |
| | | Total | 15 |
| Fifth Qua | arter | _ | |
| BT | 206 | Electronic Records Management ⁵ | 3 |
| BUS | 280 | | 5 |
| CATT | 122 | Microsoft Access I ⁵ Electives | 2.5 5 |
| | | Total | 15.5 |
| Sixth Qu | ortor | | |
| BT | arter 160 | Job Preparation Techniques | 3 |
| BT | 260 | Administrative Office Management | 5 |
| BT | 285 | Administrative Professional Internship | 2 |
| | | Electives | 5 |
| | | Total | 15 |
| | | | |

90.5 credits are required for the AAS

| Electives | | | |
|-----------|-----|--------------------------------------|-----|
| ACCT | 141 | QuickBooks | 5 |
| BT | 251 | Current Trends in Technology | 5 |
| BT | 273 | Business Research and Report Writing | 5 |
| BT | 274 | Business Writing for the Web | 5 |
| CATT | 128 | Desktop Publishing | 5 |
| CATT | 191 | Advanced PowerPoint | 2.5 |
| CATT | 220 | Advanced Microsoft Word I | 2.5 |
| CATT | 221 | Advanced Microsoft Word II | 2.5 |
| CATT | 222 | Advanced Microsoft Access I | 2.5 |
| CATT | 223 | Advanced Microsoft Access II | 2.5 |
| CATT | 238 | Advanced Microsoft Excel I | 2.5 |
| CATT | 239 | Advanced Microsoft Excel II | 2.5 |
| CATT | 241 | Microsoft Project | 2.5 |
| CATT | 242 | Advanced Microsoft Project | 2.5 |
| CMST | 127 | Leadership Development | 3-5 |
| | | | |

| CMST& | 210 | Interpersonal Communication | 5 |
|-------|-----|---|-----|
| CMST | 287 | Business and Professional Communication | 3-5 |
| ECON | 100 | Fundamentals of Economics | 5 |
| MMGT | 125 | Social Media Marketing | 5 |
| MMGT | 212 | Retailing | 5 |
| | | | |

¹ BT 272 may be substituted with BT 274.

- ² CATT 120 and CATT 121 may be substituted with BT 165.
- ³ CATT 138 and CATT 139 may be substituted with BT 201.
- ⁴ ACCT 151 may be substituted with ACCT& 201.
- ⁵ CATT 122 and BT 206 may be substituted with BT 202
- ⁶ BUS 280 may be substituted with CMST& 210.

DENTAL ASSISTING AAS, Certificate: SCC

A one-year program designed to prepare the student for employment as a chairside assistant to the dentist and an additional year for the AAS degree.

Chairside area: record medical and dental history; prepare treatment room; prepare patient for treatment; chart patient information; assist the dentist in general and specialty treatment of patient; sterilize and disinfect dental instruments; expose, process and mount radiographs; teach brushing and flossing; prepare various dental materials; perform expanded functions that are legal in the state of Washington; and order and maintain dental supplies.

Reception area: appoint patients for treatments, maintain a patient recall system, file and maintain patient and office records, complete patient insurance forms and make financial arrangements with patients.

This program is accredited by the American Dental Association. Students who successfully complete the program are eligible to take the Dental Assisting National Board exam.

- High school diploma or GED certificate required
- Appropriate scores in ASSET or COMPASS required
- Computer skills recommended
- Active e-mail account recommended
- Each required course for graduation must be completed with a 2.0 grade or better before proceeding to the next quarter. All electives must be numbered 100 or above.
- Students may repeat a dental assisting course/program once, but it must be repeated within two years.

AAS

| BIOL& | 160 | General Biology w/Lab | 5 | | |
|-----------|----------------|---------------------------------------|----|--|--|
| CHEM& | 110 | Chemical Concepts w/Lab ¹ | 5 | | |
| CMST& | 101 | Introduction to Communication | 5 | | |
| PSYC& | 100 | General Psychology | 5 | | |
| SOC& | 101 | Intro to Sociology | 5 | | |
| | | Communication or Humanities Electives | 10 | | |
| | | Math/Science Elective | 5 | | |
| | | Social Science Elective | 5 | | |
| | | Total | 45 | | |
| First Qua | arter | | | | |
| DENT | 111 | Introduction to Dental Assisting | 5 | | |
| DENT | 112 | Chairside Related Theory | 4 | | |
| DENT | 114 | Introduction to Dental Radiology | 3 | | |
| DENT | 116 | | 3 | | |
| DENT | 118 | , | 4 | | |
| ENGL& | 101 | English Composition I | 5 | | |
| | | Total | 24 | | |
| Second (| Second Quarter | | | | |
| CMST& | 210 | Interpersonal Communication | 5 | | |
| DENT | 121 | Intermediate Chairside Assisting | 6 | | |
| DENT | 122 | Chairside Related Theory | 4 | | |
| | | | | | |

| DENT DENT DENT | 124 126 129 | Dental Restorative Techniques | 2 4 2 23 | |
|--|--|---|---|--|
| Third Qu DENT DENT DENT DENT | arter 131 136 138 139 | - - - - - - - - | 6 2 3 8 19 | |
| 111 credits are required for the AAS | | | | |
| Certificat First Qua DENT DENT DENT DENT DENT ENGL& | te 111 112 112 114 116 118 | | 5 4 3 3 4 5 24 | |

Second Quarter

| CMST& | 210 | Interpersonal Communication | 5 | |
|---------------|-----|----------------------------------|----|--|
| DENT | 121 | Intermediate Chairside Assisting | 6 | |
| DENT | 122 | Chairside Related Theory | 4 | |
| DENT | 124 | Advanced Dental Radiology | 2 | |
| DENT | 126 | Dental Restorative Techniques | 4 | |
| DENT | 129 | Chairside Clinical Experience | 2 | |
| | | Total | 23 | |
| Third Quarter | | | | |
| DENT | 131 | Advanced Chairside Assisting | 6 | |
| DENT | 136 | Dental Restorative Techniques | 2 | |
| DENT | 138 | Office Management | 3 | |
| DENT | 139 | Chairside Clinical Experience | 8 | |

66 credits are required for the Certificate

Total

DENTAL HYGIENE PRE-MAJOR AA-DTA: SCC/SFCC

The skills of a dental hygienist emphasize preventive dentistry. Dental hygienists may be employed in private dental offices, hospitals, group health clinics, public health agencies, school and industry.

Upon completing the pre–Dental Hygiene requirements, the student may then transfer to an approved four–year bachelor's degree program in Dental Hygiene for professional course work. Such a program should be approved by the American Dental Association and the American Dental Hygienist Association. In order to practice, a graduate hygienist must pass a national written board examination given by the American Dental Association and a state licensing examination administered by individual state boards of dental examiners.

Consult with the college counseling department for a listing of approved Dental Hygiene bachelor's degree programs. Consult a counselor or academic adviser for recommended courses specific to student's choice of transfer institution.

AA-DTA

| Suggested Courses to Consider ¹ | 90 |
|--|----|
| Total | 90 |

90 credits are required for the AA–DTA

19

¹ Consult a counselor or academic adviser for recommended courses specific to student's choice of transfer institution.

DENTISTRY PRE-MAJOR AA-DTA, Associate in Biology DTA/MRP: SCC/SFCC

Students planning a career in Dentistry should consult the catalog of the school of dentistry to which they plan to transfer. Competition for admission is intense and a high overall college grade point average must be maintained.

It is recommended that students acquire a broad background in areas such as fine arts, speech, languages, literature, business administration and the behavioral sciences.

AA-DTA

| Suggested Courses to Consider ¹ | 90 |
|--|----|
| Total | 90 |

90 credits are required for the AA-DTA

Associate in Biology DTA/MRP

| Suggested Courses to Consider ¹ | |
|--|--|
| Total | |

90 credits are required for the Associate in Biology DTA/MRP

¹ Consult a counselor or academic adviser for recommended courses specific to student's choice of transfer institution.

DIAGNOSTIC MEDICAL SONOGRAPHY AAS: SCC

Diagnostic Medical Sonography is an allied Health Profession where non-physician professionals perform a diagnostic procedure using high frequency sound waves (ultrasound) to produce dynamic visual images of organs, tissues, or blood flow inside the body. Sonography is used to examine many parts of the body: abdomen, breasts, OB/GYN, thyroid, scrotum, and blood vessels. It is also used to guide needles for tissue biopsy or drain an abnormal fluid collection from a body cavity. Sonography is a radiation-free imaging modality and procedures are performed at the request of a physician.

A diagnostic medical sonographer is a highly–skilled professional who uses specialized equipment to create images of structures inside the human body that are used by physicians to make a medical diagnosis. Prior to starting a procedure, the sonographer must obtain an appropriate history, assess physical findings and review pertinent laboratory data. This information is used to tailor the procedure to ensure comprehensive and diagnostic images are acquired.

The program meets the criteria set forth by the Joint Review Committee on Diagnostic Medical Sonography and is accredited by CAAHEP. Upon completion and graduation of the program, graduates are able to take the national Abdomen and OB/GYN registry examinations administered by the American Registry of Diagnostic Medical Sonography.

Admission Requirements:

- Sonography courses are limited to students of the Diagnostic Medical Sonography program
- Active email account required
- Appropriate ASSET or COMPASS scores are required
- A 2.5 grade in each prerequisite course is required and course completion should be no older than 5 years

- Admission to the DMS program is competitive and based on panel interview, pre–requisite course GPA, additional math, science, and healthcare related coursework, quality of reference letters, and completion of 40 hours volunteerism in healthcare and ultrasound.
- A 2.0 (79%) is required in every program course to proceed to the next guarter
- National background check is conducted 1st and 4th quarters of the program
- Immunizations, current healthcare provider CPR, and 7 hour blood borne pathogen training are required prior to clinical internship in the 4th quarter
- Selective clinical sites require a ten-panel drug screen within 30 days of clinical internship
- Return to the program is based on "space available" and requires remedial work to demonstrate knowledge base appropriate with program re-entry point.
- After re-entry, students may only repeat a class one time. Repeat of courses must be completed within two years.

Admission Recommendations:

- Computer skills are recommended
- Some students find completion of CHEM 120 Organic and Biochemistry for Health Sciences, and CHEM 121 helpful to learning in the program
- Additional healthcare related courses such as HED 109, 129, or nursing assistant coursework

After entering the Diagnostic Medical Sonography program, students are required to maintain a minimum of a 2.0 grade in each class before proceeding to the next quarter. Students need to realize that clinical site placement could require relocation outside of the immediate Spokane area for 10 months.

AAS

90

90

| | - | | | |
|----------------|-------|---|----|--|
| Prerequis | ites: | | | |
| – BIOL& | 160 | General Biology w/Lab | | |
| – BIOL& | 241 | Human A & P 1 | | |
| – BIOL& | 242 | Human A & P 2 | | |
| - CMST& | 210 | Interpersonal Communication | | |
| – ENGL& | 101 | English Composition I | | |
| – HED | 125 | Medical Terminology | | |
| – MATH | 108 | College Algebra | | |
| – PHYS | 100 | Introductory Physics | | |
| First Qua | rter | | | |
| HED | 109 | Human Physiology and Disease | 5 | |
| SONO | 111 | Diagnostic Ultrasound I | 2 | |
| SONO | 112 | Vascular Fundamentals | 4 | |
| SONO | 121 | Human Cross-Section Anatomy | 4 | |
| SONO | 125 | Ultrasound Physics and Instrumentation I | 5 | |
| | | Total | 20 | |
| Second Q | | | | |
| SONO | 122 | Vascular Procedures I | 4 | |
| SONO | 131 | Diagnostic Ultrasound II | 5 | |
| SONO | 132 | Abdominal Pathophysiology | 4 | |
| SONO | 135 | Ultrasound Physics and Instrumentation II | 5 | |
| | | Total | 18 | |
| Third Qua | | | | |
| SONO | 123 | Survey of Cardiac Sonography | 5 | |
| SONO | 141 | Diagnostic Ultrasound III | 5 | |
| SONO | 144 | OB/GYN Pathophysiology | 4 | |
| | | Total | 14 | |
| Fourth Quarter | | | | |
| SONO | 142 | Diagnostic Ultrasound IV | 4 | |
| SONO | 143 | Sonography Clinical I | 9 | |
| | | Total | 13 | |
| | | | | |

| Fifth Qua | r ter | Advanced Sonography | 4 |
|-----------|---------------|--|-----------------|
| SONO | 251 | Sonography Clinical II | 9 |
| SONO | 253 | Total | 13 |
| Sixth Qua | | Sonography Clinical III | 13 |
| SONO | | Total | 13 |
| Sono | Quarte 273 | er Sonography Clinical IV Total | 13 13 |

104 credits are required for the AAS

¹ MATH 097, 098, or 099 with a 2.0 or better within the last three years or appropriate placement score.

DIESEL/HEAVY DUTY EQUIPMENT AAS: SCC

Diesel/Heavy Duty mechanics repair and maintain trucks, busses, logging, mining, agricultural and construction equipment. In addition, they maintain and repair diesel and gasoline engines, compressors and pumps.

Students may enter the program any quarter.

AAS

| HEQ 1 | er 121 111 112 | Applied Written Communication ¹ Basic Electrical Theory Basic Electrical Applications Total | 4 7 9 20 | | |
|--------------|--------------------------------------|--|--------------------------|--|--|
| Second Qu | | | | | |
| HEQ 1 | 12 21 22 | Applied Mathematics ¹ Basic Principles of Engine Theory Basic Engine Applications Total | 4 7 9 20 | | |
| Third Quar | | | | | |
| HEQ 1 | 123 131 132 | Leadership Skills for Business and Industry ¹ Principles of Power Train Theory Power Train Applications Total | 4 7 9 20 | | |
| Fourth Qua | | | | | |
| HEQ 2 | 153 241 242 | Oxy-acetylene Welding Heavy Equipment Hydraulic Theory Heavy Duty Equipment Hydraulic Application Total | 4 7 9 20 | | |
| Fifth Quarte | er | | | | |
| HEQ 2 | 152 251 252 | Arc Welding Practical Shop Procedures Practical Shop Total | 4 7 9 20 | | |
| Sixth Quart | | | _ | | |
| HEQ 2 | 261 262 294 | Practical Shop Procedures ² Practical Shop ² Special Problems ³ Total | 7 6 3 16 | | |
| 116 credits | 116 credits are required for the AAS | | | | |

116 credits are required for the AAS

- ¹ This related education requirement may be met by any course or combination of courses approved by the instructional dean.
- ² 2 credits of HEQ 266 and 11 credits of HEQ 267 may be substituted for HEQ 261 and 262. 16 credits of HEQ 288 with no seminar may be substituted for HEQ 261, 262 and 294. (This option requires HEQ department approval).

³ 3 credits of HEQ 291, 292 and 293 may be substituted for HEQ 294. (This option requires HEQ department approval).

DIGITAL MEDIA PRODUCTION AAS-T: SFCC

The Digital Media Production AAS–T degree in an interdisciplinary study of photography, journalism and documentary video production that prepares students to pursue careers in a variety of communication fields such as news reporting, photojournalism, video journalism, marketing, and public relations.

The Digital Media Production AAS–T degree will allow students to draw upon the strengths of various existing departments to help develop the skills necessary to succeed in various, rapidly evolving field centered around media production.

By bringing together resources from journalism, photography, graphic design, web design, and audio technology, the AAS–T degree in Digital Media Production will help students develop skills in photography and video production, journalistic storytelling, audio capture, web design, and the clear and concise presentation of content through an understanding of the elements and principles of good design.

AAS-T

| First Quarter | | | | |
|---|--|---|--|--|
| ART 105 ENGL& 101 PHOTO 126 | Color and Design English Composition I Digital Photography | 5 5 5 | | |
| Second Quarte JOURN 110 JOURN 220 PHOTO 131 PHOTO 200 Third Quarter GRDSN 163 JOURN 224 | Total | 15 5 3 4 17 2 5 | | |
| JOURN 225 PHOTO 112 | Multimedia Journalism Photographic Design Total | 5 4 16 | | |
| Fourth Quarter | | | | |
| FILM 236 JOURN 221 MATH& 107 PHOTO 237 | The Documentary Film Digital News Production I ¹ Math in Society Introduction to Documentary DV Production Total | 5 3 5 5 18 | | |
| Fifth QuarterACCT141JOURN222PHOTO227PHOTO247 | QuickBooks Digital News Production II ² Professional Business Practices II HDSLR Filmmaking Graphic Design Self-Paced Software Elective ⁴ Total | 2 3 5 2 15 | | |
| Sixth Quarter GRDSN 175 JOURN 223 PHOTO 225 PHOTO 266 PHOTO 267 | After Effects Digital News Production III ³ Portfolio Development II Cooperative Education Seminar Cooperative Education Work Experience Social Science Elective from AA Degree ⁵ Total | 2 3 1 2 5 16 | | |

97 credits are required for the AAS-T

- 1 JOURN 221 may be substituted with JOURN 101- College Newspaper Production I.
- 2 JOURN 222 may be substituted with JOURN 102 - College Newspaper Production II.
- JOURN 223 may be substituted with JOURN 103 College Newspaper Production III.
- Please work with your faculty adviser to select the GRDSN self-paced software classes.
- Select five credits from the Social Sciences distribution (Group A or B) from the AA Degree worksheet. www.spokanefalls.edu/Programs/Degrees/AADegree.aspx

DRAMA (ASSOCIATE IN FINE ARTS DEGREE) AFA: SFCC

The Associate in Fine Arts (AFA) in Drama offers a foundation for students pursuing a four year degree in Drama; either a Bachelor of Arts (BA) or a Bachelor of Fine Arts (BFA). To complete the AFA, students complete fifty credits of drama and fifty credits of General Education Requirements. Courses satisfying General Education Requirements must include CMST& 101 (5 credits); ENGL & 101 (5 credits); ENGL& 102 (or ENGL 114 or ENGL 220) (5 credits); MATH& 107 (5 credits); Social Science (10 credits), Science (10 credits -5 credits must come from a lab science); Humanities (10 credits).

100 Credits are required for the AFA. Transfer institutions with whom Spokane Falls Community College maintains articulation agreements accept a minimum of 90 credits. University Drama departments typically require an audition or portfolio review for admission to Drama programs. Through ensemble acting experience and applied instruction, the AFA provides students the opportunity to audition successfully. Students must maintain a cumulative GPA of 2.0 or better to qualify.

AFA

First Quarter Intro to Theatre 5 DRMA& 101 Rehearsal and Performance¹ DRMA 106 2 3 2 5 Performance and Audition Techniques DRMA 120 DRMA Stagecrafting Theatrical Design² 230 English Composition I ENGL& 101 17 Total Second Quarter 2 DRMA 106 Rehearsal and Performance¹ DRMA **Contemporary Acting** 3 3 2 121 Stagecrafting Theatrical Design² DRMA 230 DRMA 233 Makeup MATH& 107 Math in Society 5 15 Total Third Quarter DRMA Rehearsal and Performance¹ 2 107 DRMA 220 **Classical Acting** 5 3 DRMA Stagecrafting Theatrical Design² 230 ENGL& 102 Composition II³ 5 Total 15 Fourth Quarter Introduction to Communication ⁴ 5 CMST& 101 Rehearsal and Performance¹ 2 DRMA 107 Stagecrafting Theatrical Design² 3 DRMA 230 5 Humanities Group A ⁵ Social Science Group A 5 5 Total 20 Fifth Quarter Rehearsal and Performance¹ 2 DRMA 108 DRMA 211 Scenic Design I 5 Humanities Group B 5 5

| | | Science ⁵ Total | 5 17 |
|----------|-------|--|---------|
| Sixth Qu | arter | | |
| DRMA | 108 | Rehearsal and Performance ¹ | 3 |
| | ~ | | • |

| DRMA | 108 | Rehearsal and Performance ¹ | 3 |
|------|-------------------------------------|--|----|
| DRMA | 212 | Costume Design I | 3 |
| | | Science ⁵ | 5 |
| | Social Science Group B ⁵ | 5 | |
| | | Total | 16 |
| | | | |

100 credits are required for the AFA

- A total of 13 credits in DRMA 106, 107, 108, Rehearsal and Performance must be accumulated by the completion of the program. A minimum of one credit should be taken each quarter in which a student is enrolled. Credits can be accumulated by taking DRMA 106, 107 or 108, but there must be a minimum of one credit in each.
- 2 A total of 11 credits in DRMA 230 Stagecrafting must be accumulated by completion of the program, taken over the course of four quarters. DRMA 230 cannot be taken concurrently with 211 Scenic Design I or 212 Costume Desian I.
- ENGL 114 Intro to the Literature of Drama or ENGL 220 Intro to Shakespeare may be substituted.
- CMST 220 Public Speaking may be substituted.
- Courses in these areas come from the Associate in Arts Degree Requirements and may be taken in any sequence. A minimum of 5 of the science credits must come from a Lab Science. Courses should be selected based on your transfer destination and in consultation with an academic adviser in Drama.

DRAMA PRE-MAJOR AA-DTA: SFCC

The aim of the Drama program is the development of appreciation and understanding within the participants and the audience of live theater. The department also attempts through its courses to establish aesthetic values that may be applied to motion pictures and television as well as live theater and to build a respect for the tradition of the theater as a major artistic instrument of society.

AA-DTA

| Suggested Courses to Consider ¹ | 90 |
|--|----|
| Total | 90 |

90 credits are required for the AA-DTA

| Suggested Courses to Consider | | | |
|-------------------------------|-----|---|-----|
| ART& | 100 | Art Appreciation | 5 |
| CMST& | 101 | Introduction to Communication | 5 |
| CMST | 114 | Oral Interpretation of Literature | 5 |
| CMST& | 220 | Public Speaking | 5 |
| DRMA& | 101 | Intro to Theatre | 5 |
| DRMA | 106 | Rehearsal and Performance | 1-5 |
| DRMA | 107 | Rehearsal and Performance | 1-5 |
| DRMA | 108 | Rehearsal and Performance | 1-5 |
| DRMA | 120 | Performance and Audition Techniques | 3 |
| DRMA | 121 | Contemporary Acting | 3 |
| DRMA | 220 | Classical Acting | 5 |
| DRMA | 221 | Acting for Film and Television | 5 |
| DRMA | 230 | Stagecrafting Theatrical Design | 1-5 |
| DRMA | 233 | Makeup | 2 |
| ENGL& | 111 | Intro to Literature | 5 |
| ENGL& | 114 | Introduction to the Literature of Drama | 5 |
| ENGL& | 220 | Intro to Shakespeare | 5 |
| ENGL& | 236 | Creative Writing I | 5 |
| ENGL& | 237 | Creative Writing II | 5 |
| MUSC& | 105 | Music Appreciation | 5 |

Consult a counselor or academic adviser for recommended courses specific to student's choice of transfer institution. Refer to AA degree worksheet for list of approved courses and credit requirements in each distribution area.

EARLY CHILDHOOD EDUCATION AAS, Certificate: SFCC

The Early Childhood Education program provides experiences in educational theory in the areas of social, emotional, cognitive, physical/motor and creative development for children from birth through age 8. Courses also are available for caregivers of school-age children, ages 5 through 14 years. Now that ongoing research reveals the significance of early development, professional preparation has become essential to anyone pursuing a career in the education and care of young children. Courses are through eLearning and/or days and evenings.

SFCC Early Childhood Education program options:

- Early Childhood Education Certificate (60 credits) -contains the ECED core content courses.
- WA State ECED Stackable Certificates (12-47 credits) -Three "stackable" certificates meet State requirements and allow progression without course repetition for students who wish to earn higher level certificates or dearees.
- Associate in Applied Science (AAS) degree (90 credits) contains the same course work as the ECED certificate above, plus supporting courses and electives which may be modified for transfer to four-year schools.
- Associate in Applied Science Transfer (AAS-T) degree (90 credits) -contains ECED core content with the option to transfer to accepting four-year schools.
- Associate in Arts (AA) degree (90 credits) -includes 15 credits of electives in ECED that transfers to fourvear schools.
- Articulation with area high schools articulates college credits for completion of specified high school ECED courses.

AAS

First Quarter ECED 103 **College Success** Introduction to Early Childhood Education ECED& 105 ECED& 107 Health, Safety, Nutrition Practicum-Nurturing Relationships ECED& 120 15 Total Second Quarter ECED& 132 Infants and Toddlers ECED 133 Practicum: Infants/Toddlers Care Child Development EDUC& 115 EDUC& 130 Guiding Behavior Total 13 Third Quarter ECED& 170 Learning Environments for Young Children 190 **Observation and Assessment** ECED& Practicum: Observation and Assessment ECED 191 First Aid 174 HLTH Math Elective Total 16 Fourth Quarter 180 Language and Literacy ECED& 150 Child, Family, Community EDUC& EDUC& 204 Exceptional Child English Composition I ENGL& 101 Total 16

Fifth Quarter

3 5 5

2

3 2 5

3

3

3

2

3

5

3

3

5

5

| | inter | | |
|----------|-------|-------------------------------------|----|
| ECED& | 160 | Curriculum Development | 5 |
| ECED | 282 | Practicum I | 5 |
| | | Program Elective | 5 |
| | | Total | 15 |
| Sixth Qu | arter | | |
| ECED | 283 | Practicum II | 5 |
| | | Human Relations/Leadership Elective | 5 |
| | | Program Elective | 5 |
| | | Total | 15 |

90 credits are required for the AAS

Human Relations/Leadershin Elective

| Human R | elatio | ns/Leadership Elective | |
|-----------|--------|--|------|
| CMST | 227 | Intercultural Communication | 5 |
| HS | 136 | Improving Interpersonal Communication | 5 |
| | | | |
| Math Elec | tive | | |
| BUS | 110 | Number Skills | 1 |
| BUS | 111 | Math Skills | 1 |
| BUS | 112 | Advanced Calculator Skills | 1 |
| BUS | 113 | Essential Business Applications | 1 |
| BUS | 114 | Basic Retail Application | 1 |
| BUS | 122 | Practical Business Math | 3 |
| BUS | 123 | Practical Business Math Applications | 5 |
| MATH | 087 | Algebra for Math Literacy I | 5 |
| MATH | 088 | Algebra for Math Literacy II | 5 |
| MATH | 090 | Pre-Algebra | 5 |
| | | | |
| Program | | | |
| ART& | 100 | Art Appreciation | 5 |
| ASL& | 121 | Am Sign Language I | 5 |
| CMST | 121 | Job Communication Skills | 2-5 |
| CMST& | 220 | Public Speaking | 5 |
| CMST | 227 | Intercultural Communication | 5 |
| DRMA& | 101 | Intro to Theatre | 5 |
| ECED& | 100 | | 3 |
| ECED | 118 | Early Childhood Education Seminar | 1-11 |
| ECED& | 134 | Family Child Care | 3 |
| ECED& | 139 | Administration of Early Learning Programs | 3 |
| EDUC& | 136 | School-Age Care | 3 |
| ENGL& | 102 | Composition II | 5 |
| ENGL& | 111 | Intro to Literature | 5 |
| ENVS& | 101 | Intro to Env Science | 5 |
| GEOL& | 100 | | 5 |
| HIST& | 214 | Pacific NW History | 5 |
| HIST& | 219 | Native American History | 5 |
| HS | 105 | Child Abuse | 5 |
| HUM& | 101 | Intro to Humanities | 5 |
| IS | 120 | Business Computer Use | 3 |
| LMLIB | 135 | Children's Literature and Library Services | 5 |
| MUSC& | 105 | Music Appreciation | 5 |
| PHOTO | 101 | Introduction to Photography | 5 |
| PSYC& | 100 | General Psychology | 5 |
| PSYC& | 200 | Lifespan Psychology | 5 |
| PSYC | 250 | Psychology of Adjustment | 5 |
| SOC& | 101 | Intro to Sociology | 5 |
| SOC | 211 | Marriage and the Family | 5 |
| | | | |

May choose any course or combination of courses for a required five credits of computation. MATH 087, 088 or 090 may be substituted with any higher level math course.

Certificate – Early Childhood Education **First Quarter**

| ECED | 103 | College Success | 3 |
|-------|-----|---|----|
| ECED& | 105 | Introduction to Early Childhood Education | 5 |
| ECED& | 107 | Health, Safety, Nutrition | 5 |
| ECED& | 120 | Practicum-Nurturing Relationships | 2 |
| | | Total | 15 |

| Second Quarter | | | | |
|---------------------|------------|--|----------------|--|
| ECED& | 132 | Infants and Toddlers | 3 | |
| ECED | 133 | | 2 | |
| EDUC& | 115 | Child Development | 5 | |
| EDUC& EDUC& | 130 | Guiding Behavior | 3 | |
| HLTH | 174 | First Aid | 3 | |
| | | Total | 16 | |
| | | | | |
| Third Qua | | Learning Environments for Voung Children | 2 | |
| ECED& | 170 | Learning Environments for Young Children Observation and Assessment | 3 | |
| ECED& ECED | 190 191 | Practicum: Observation and Assessment | 3 2 | |
| ECED | 191 | Math Elective | 2 5 | |
| | | Total | 13 | |
| | | | | |
| Fourth Qu | Jarter | | | |
| ECED& | 180 | | 3 | |
| EDUC& | 150 | Child, Family, Community | 3 | |
| ENGL& | 101 | English Composition I | 5 | |
| | | Human Relations/Leadership Elective | 5 | |
| | | Total | 16 | |
| 60 credits | s are r | equired for the Certificate | | |
| Human R | elatio | ns/Leadership Elective | | |
| CMST | 227 | Intercultural Communication | 5 | |
| HS | 136 | Improving Interpersonal Communication | 5 | |
| Math Elec | tivo | | | |
| BUS | 110 | Number Skills | 1 | |
| BUS | 111 | Math Skills | 1 | |
| BUS | 112 | Advanced Calculator Skills | 1 | |
| BUS | 113 | | 1 | |
| BUS | 114 | Basic Retail Application | 1 | |
| BUS | 122 | Practical Business Math | 3 | |
| BUS | 123 | Practical Business Math Applications | 5 | |
| MATH | 087 | Algebra for Math Literacy I | 5 | |
| MATH | 088 | Algebra for Math Literacy II | 5 | |
| MATH | 090 | Pre-Algebra | 5 | |
| ¹ May ch | 20060 | any course or combination of courses for a | | |
| | | to five credits of computation. MATH 087, 08 | 38. | |
| | | e substituted with any higher level math cours | | |
| | - | | | |
| | | CED – Administration | _ | |
| ECED& | 105 | Introduction to Early Childhood Education | 5 | |
| ECED& | 107 | Health, Safety, Nutrition | 5 | |
| ECED& | 120 | Practicum-Nurturing Relationships | 2 3 | |
| ECED& EDUC& | 139 115 | Administration of Early Learning Programs Child Development | 3 5 | |
| EDUCA | 115 | Total | 20 | |
| | | | | |
| 20 credits | s are r | equired for the Certificate | | |
| | | CED – Family Child Care | _ | |
| ECED& | 105 | Introduction to Early Childhood Education | 5 | |
| ECED& | 107 | Health, Safety, Nutrition | 5 | |
| ECED& | 120 | Practicum-Nurturing Relationships | 2 | |
| ECED& | 134 | Family Child Care | 3 | |
| EDUC& | 115 | Child Development Total | 5 20 | |
| | | lotai | 20 | |
| 20 credits | are r | equired for the Certificate | | |
| | | CED – General | | |
| ECED& | 105 | , | 5 | |
| ECED& | 107 | Health, Safety, Nutrition | 5 | |
| ECED& | 120 | Practicum-Nurturing Relationships | 2 | |
| EDUC& | 115 | Child Development | 5 | |
| EDUC& | 130 | Guiding Behavior Total | 3 20 | |
| | | | 20 | |
| 20 credits | s are r | equired for the Certificate | | |

| | 405 | late dustion to Fash, Obildhead Fabratian | ~ |
|--|---|--|---|
| ECED& | 105 107 | · · · · · · · · · · · · · · · · · · · | 5 |
| ECED& ECED& | 120 | | 5 2 |
| ECED& | 132 | e . | 2 |
| EDUC& | | | 5 |
| LDOCA | 115 | Total | 20 |
| | | | 20 |
| 20 credit | s are i | required for the Certificate | |
| Certificat | te – E | CED – School–Age Care | |
| ECED& | 105 | | 5 |
| ECED& | 107 | | 5 |
| ECED& | 120 | | 2 |
| EDUC& EDUC& | 115 | | 5 |
| EDUC& | 136 | School-Age Care | 3 |
| | | Total | 20 |
| 20 credit | s are | required for the Certificate | |
| | | tate ECED | |
| First Qua | | Introduction to Early Childhood Education | F |
| ECED& ECED& | 105 107 | , | 5 5 |
| ECED& | | Practicum-Nurturing Relationships | 2 |
| LOLDU | 120 | Total | 12 |
| Second (| Juarte | | |
| EDUC& | 115 | | 5 |
| ENGL& | | English Composition I | 5 |
| | | Math Elective | 5 |
| | | Specialization Choice ¹ | 3 |
| | | T - 4 - 1 | |
| | | Total | 18 |
| Third Qu | arter | lotai | 18 |
| Third Qu ECED& | arter 160 | Curriculum Development | 5 |
| | | | 5 3 |
| ECED& ECED& ECED& | 160 170 180 | Curriculum Development Learning Environments for Young Children Language and Literacy | 5 3 3 |
| ECED& ECED& ECED& ECED& | 160 170 180 190 | Curriculum Development Learning Environments for Young Children Language and Literacy Observation and Assessment | 5 3 3 3 |
| ECED& ECED& ECED& | 160 170 180 190 | Curriculum Development Learning Environments for Young Children Language and Literacy Observation and Assessment Child, Family, Community | 5 3 3 3 3 |
| ECED& ECED& ECED& ECED& | 160 170 180 190 | Curriculum Development Learning Environments for Young Children Language and Literacy Observation and Assessment | 5 3 3 3 |
| ECED& ECED& ECED& ECED& EDUC& | 160 170 180 190 150 | Curriculum Development Learning Environments for Young Children Language and Literacy Observation and Assessment Child, Family, Community | 5 3 3 3 3 |
| ECED& ECED& ECED& ECED& EDUC& 47 credit | 160 170 180 190 150 s are | Curriculum Development Learning Environments for Young Children Language and Literacy Observation and Assessment Child, Family, Community Total | 5 3 3 3 3 |
| ECED& ECED& ECED& ECED& EDUC& | 160 170 180 190 150 s are | Curriculum Development Learning Environments for Young Children Language and Literacy Observation and Assessment Child, Family, Community Total | 5 3 3 3 3 |
| ECED& ECED& ECED& ECED& EDUC& 47 credit Math Ele | 160 170 180 190 150 s are 1 | Curriculum Development Learning Environments for Young Children Language and Literacy Observation and Assessment Child, Family, Community Total | 5 3 3 3 3 17 |
| ECED& ECED& ECED& ECED& EDUC& 47 credit Math Ele BUS BUS BUS | 160 170 180 190 150 s are 1 ctive 110 | Curriculum Development Learning Environments for Young Children Language and Literacy Observation and Assessment Child, Family, Community Total required for the Certificate Number Skills Math Skills Advanced Calculator Skills | 5 3 3 3 3 17 |
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| ECED& ECED& ECED& ECED& EDUC& 47 credit Math Ele BUS BUS BUS BUS BUS BUS BUS BUS BUS BUS | 160 170 180 190 150 s are 1 ctive 110 111 112 113 114 122 123 | Curriculum Development Learning Environments for Young Children Language and Literacy Observation and Assessment Child, Family, Community Total required for the Certificate Number Skills Math Skills Advanced Calculator Skills Essential Business Applications Basic Retail Application Practical Business Math Practical Business Math Applications | 5 3 3 3 3 3 17 1 1 1 1 3 5 |
| ECED& ECED& ECED& ECED& EDUC& 47 credit Math Ele BUS BUS BUS BUS BUS BUS BUS BUS BUS BUS | 160 170 180 190 150 s are 1 5 ctive 110 111 112 113 114 122 123 087 | Curriculum Development Learning Environments for Young Children Language and Literacy Observation and Assessment Child, Family, Community Total required for the Certificate Number Skills Math Skills Advanced Calculator Skills Essential Business Applications Basic Retail Application Practical Business Math Practical Business Math Applications Algebra for Math Literacy I | 5 3 3 3 3 3 3 3 17 1 1 1 3 5 5 |
| ECED& ECED& ECED& ECED& EDUC& 47 credit Math Ele BUS BUS BUS BUS BUS BUS BUS BUS BUS BUS | 160 170 180 190 150 s are 1 ctive 110 111 112 113 114 122 123 | Curriculum Development Learning Environments for Young Children Language and Literacy Observation and Assessment Child, Family, Community Total required for the Certificate Number Skills Math Skills Advanced Calculator Skills Essential Business Applications Basic Retail Application Practical Business Math Practical Business Math Applications | 5 3 3 3 3 3 17 1 1 1 1 3 5 |
| ECED& ECED& ECED& ECED& EDUC& 47 credit Math Ele BUS BUS BUS BUS BUS BUS BUS BUS BUS BUS | 160 170 180 190 150 s are 110 111 112 113 114 122 123 087 088 090 | Curriculum Development Learning Environments for Young Children Language and Literacy Observation and Assessment Child, Family, Community Total required for the Certificate Number Skills Math Skills Advanced Calculator Skills Essential Business Applications Basic Retail Application Practical Business Math Practical Business Math Practical Business Math Applications Algebra for Math Literacy I Algebra for Math Literacy II Pre-Algebra | 5 3 3 3 3 3 3 3 17 1 1 1 3 5 5 5 |
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| ECED& ECED& ECED& ECED& EDUC& 47 credit Math Ele BUS BUS BUS BUS BUS BUS BUS BUS BUS BUS | 160 170 180 190 150 s are 110 111 112 113 114 122 123 087 088 090 | Curriculum Development Learning Environments for Young Children Language and Literacy Observation and Assessment Child, Family, Community Total required for the Certificate Number Skills Math Skills Advanced Calculator Skills Essential Business Applications Basic Retail Application Practical Business Math Practical Business Math Pre-Algebra Choice Infants and Toddlers | 5 3 3 3 3 3 3 3 17 1 1 1 1 3 5 5 5 5 3 3 |
| ECED& ECED& ECED& ECED& EDUC& 47 credit Math Ele BUS BUS BUS BUS BUS BUS BUS BUS BUS BUS | 160 170 180 190 150 s are 1 ctive 110 111 112 113 114 122 123 087 088 090 cation 132 | Curriculum Development Learning Environments for Young Children Language and Literacy Observation and Assessment Child, Family, Community Total required for the Certificate Number Skills Math Skills Advanced Calculator Skills Essential Business Applications Basic Retail Application Practical Business Math Practical Business Math Practical Business Math Applications Algebra for Math Literacy I Algebra for Math Literacy I Pre-Algebra | 5 3 3 3 3 3 3 3 17 1 1 1 1 3 5 5 5 5 3 3 |
| ECED& ECED& ECED& ECED& EDUC& 47 credit BUS BUS BUS BUS BUS BUS BUS BUS BUS BUS | 160 170 180 190 150 s are 1 ctive 110 111 112 113 114 122 123 087 088 090 sation 132 134 139 130 | Curriculum Development Learning Environments for Young Children Language and Literacy Observation and Assessment Child, Family, Community Total required for the Certificate Number Skills Math Skills Advanced Calculator Skills Essential Business Applications Basic Retail Application Practical Business Math Practical | 5 3 3 3 3 3 17 1 1 1 1 1 3 5 5 5 5 3 3 3 3 3 |
| ECED& ECED& ECED& ECED& EDUC& 47 credit BUS BUS BUS BUS BUS BUS BUS BUS BUS BUS | 160 170 180 190 150 s are 1 ctive 110 111 112 113 114 122 123 087 088 090 sation 132 134 139 | Curriculum Development Learning Environments for Young Children Language and Literacy Observation and Assessment Child, Family, Community Total required for the Certificate Number Skills Math Skills Advanced Calculator Skills Essential Business Applications Basic Retail Application Practical Business Math Practical Business Math Practical Business Math Applications Algebra for Math Literacy I Algebra for Math Literacy I Pre-Algebra Choice Infants and Toddlers Family Child Care Administration of Early Learning Programs | 5 3 3 3 3 3 3 3 17 1 1 1 1 3 5 5 5 5 3 3 |

Certificate – ECED – Infant–Toddler Care

¹ Choose ONE specialization course

EARLY CHILDHOOD EDUCATION (AAS-T) AAS-T: SFCC

The AAS-T is an associate degree providing comprehensive core early childhood content (51-52 credits) based on the National Association for the Education of Young Children (NAEYC) and the Washington State Skill standards. The balance of the degree is made up of significant general education coursework which is necessary for transfer.

Graduation requirements for AAS-T in Early Childhood Education Development: 91-92 credits from the associate in arts degree and the associate in applied science degree:

- Communication Skills: 10 credits of English composition, or 5 credits of English composition and 5 credits of speech
- Quantitative Skills: 5 credits from quantitative reasoning courses --mathematics
- Humanities: 5 credits from group A and 5 credits from group B or C
- Social Sciences: 5 credits from group A and 5 credits from group B
- Mathematics/Science: 5 credits from a laboratory course in group B sciences
- Writing and Diversity: At least one 5-credit writing-intensive course ("W" designated course) must be included within the distribution. At least 5 credits must be chosen from the approved list of diversity courses ("D" designated course).

AAS-T

| First Quarte ECED& 10 ECED& 10 ECED& 10 | 7 Health, Safety, Nutrition 5 | 5 |
|--|--|---|
| Second Qua ECED& 13 EDUC& 17 EDUC& 13 | 2Infants and Toddlers35Child Development5 | 5 |
| Third Quart ECED& 11 ECED& 19 | D Learning Environments for Young Children 3 | 5 |
| Fourth Qual ECED& 18 EDUC& 18 | Language and Literacy3 | 5 |
| Fifth Quarte ECED& 10 ECED 28 | | ; |
| Sixth Quarte | | ; |

| CMST | 227 | Intercultural Communication ' | 5 |
|------|-----|---------------------------------------|----|
| ECED | 283 | Practicum II | 5 |
| | | Social Sciences: Group B ² | 5 |
| | | Total | 15 |

90 credits are required for the AAS-T

Communication

| CMST& | 101 | Introduction to Communication | 5 |
|-------|-----|-------------------------------|---|
| ENGL& | 101 | English Composition I | 5 |
| ENGL& | 102 | Composition II | 5 |

- CMST 227 completes 5 of the 10 credit humanities requirement.
- See AA degree requirements for acceptable course listings.

EARTH SCIENCE PRE-MAJOR AA-DTA, AS-T 1: SCC/SFCC

Earth Science involves the investigation of planet Earth and its many systems. It includes the study of solid Earth and the interrelations with Earth's atmosphere, hydrosphere, and biosphere. Earth scientists utilize foundational knowledge from chemistry, biology, and physics to identify and solve a wide array of problems associated with Earth's systems. Earth scientists research and study a variety of topics including traditional geology, geophysics and geodesy, soils, hydrology, oceanography, glaciology, meteorology, climatology and atmospheric chemistry. Finally, Earth scientists investigate the relationships of life and the biosphere to the various Earth systems.

Careers in the Earth Sciences are numerous and diverse. Earth Science majors can find employment opportunities in the public sector working for government agencies at the local, state, and federal levels. Earth scientists are also employed within the fields of engineering (private and public sectors) associated hazards mitigation and management, as well as the exploration, development, and management of resources (water, energy, minerals, timber, fisheries, and agriculture). Earth scientists successfully pursue careers in a variety of outdoor recreational fields as park rangers, interpretive guides, and naturalists. Finally, teaching at various levels is also a career option for students with undergraduate or graduate Earth Science degrees.

AA-DTA

| Suggested Courses to Consider ¹ | 90 |
|--|----|
| Total | 90 |

90 credits are required for the AA–DTA

AS-T1

| Suggested Courses to Consider ¹ | 90 |
|--|----|
| Total | 90 |

90 credits are required for the AS-T 1

Consult a counselor or academic adviser for recommended courses specific to student's choice of transfer institution.

ECONOMICS PRE-MAJOR AA-DTA, Associate in Business DTA/MRP: SCC/SFCC

Economics is the study of how people efficiently satisfy their unlimited wants within the realistic context of scarce resources. This program introduces students to economic principles, which govern consumption, production, distribution and exchange in a capitalist market economy -the US, within the dynamics of modern day global forces.

Economics involves analytical training and quantitative reasoning which enables students to successfully evaluate complex real world situations, making this one of the most versatile bachelor's degrees to obtain, providing students with a solid framework to transfer to business programs, or pursue degrees in law, public policy or other social sciences.

| A-DTA | |
|-------|--|
| | Suggested Courses to Consider ¹ Total |
| | |

90 **90**

90 credits are required for the AA–DTA

Associate in Business DTA/MRP

A

| Suggested Courses to Consider ¹ | 90 |
|--|----|
| Total | |
| | |

90 credits are required for the Associate in Business DTA/MRP

¹ Consult a counselor or academic adviser for recommended courses specific to student's choice of transfer institution.

EDUCATION PARAPROFESSIONAL, SPECIAL EDUCATION AAS, Certificate: SFCC

The Education Paraprofessional program provides theory and practice in the skills for working as effective members of instructional teams. An education paraprofessional works under the supervision of a licensed/certificated staff member to assist and support educational services. Courses within all options address the Washington State Core Competencies for Paraeducators and the Washington State Skill Standards. The core curriculum focuses on current issues and historical foundations of regular and special education, instructional strategies, behavior management, human development and interpersonal skills in the context of a diverse society. Students will need to successfully pass a Basic Skills Test in reading, writing and math before they will be able to register for Practicum I or complete the AAS degree. Supervised practicum opportunities for hands-on experiences in schools are provided throughout this course of study. The focus on Special Education includes the core curriculum courses described above yet delve deeper into providing services for children identified with disabilities such as learning disabilities, emotional and behavioral disorders, and developmental disabilities.

AAS Education Paraprofessional, **General Education**: The goal for this option is to support learners experiencing delays and/or those who are learning English as well as typical students within a general education setting.

AAS Education Paraprofessional, **Early Childhood**: Courses include the core curriculum described above and is intended to meet the needs of persons who wish to become paraeducators in grades K–3.

AAS Education Paraprofessional, **School Library Media Technician**: Courses include the core curriculum described above and is intended to meet the needs of persons who wish to become education paraprofessionals or school library technician paraprofessionals in a K–12 library. Library science (LMLIB) classes are taught online and students are required to take an onsite work experience class.

AA and DTA/MRP Degree: If you intend to transfer to a four year college or university to complete a teacher training program leading to certification, you must follow the associate in arts degree and the direct transfer agreement/major related program. It is important to contact an adviser in the Education Department for specific information about appropriate courses.

Certificate: This option may be most appropriate for those obtaining a degree in Early Childhood Education wishing to extend their knowledge of working with children with special needs. As of January 2002, new federal guidelines require most paraprofessionals in public K–12 schools to complete a two year program.

| First Quarter EDUC& 204 Exceptional Child 5 ENGL& 101 English Composition I 5 Math Related Instruction Requirement ¹ 5 Total 15 Second Quarter EDUC& 202 Intro to Education 5 PSYC& 100 General Psychology 5 Human Relations/Leadership Elective Total 15 Third Quarter ECED& 190 Observation and Assessment 3 HLTH 174 First Ald 3 Human Relations/Leadership Elective 2-3 Total 13-14 Fourth Quarter EDUC 252 Social/Emotional Development 5 EDUC 253 Social/Emotional Development 5 EDUC 250 Behavior/Classroom Management 5 Electives 3 Total 15 Fifth Quarter EDUC 275 Learning Disabilities 5 EDUC 281 Education/Special Education Practicum 1 ⁵ 5 EDUC 281 Education/Special Education Practicum 1 ⁵ 5 EDUC 270 Introduction to Developmental Disabilities 5 EDUC 270 Introduction to Developmental Disabilities 5 EDUC 282 Education/Special Education Practicum 1 Sixth Quarter ASL& 121 Am Sign Language 1 SEDUC 270 Introduction to Developmental Disabilities 5 EDUC 282 Education/Special Education Practicum 1 5 EDUC 270 Introduction to Developmental Disabilities 5 EDUC 282 Education/Special Education Practicum 1 5 EDUC 283 Introduction to Developmental Disabilities 5 EDUC 284 Education/Special Education Practicum 1 5 EDUC 282 Education/Special Education Practicum 1 5 EDUC 283 Interpersonal Communication 5 HSGER 115 Multi-Cultural Perspectives in Human Services 5 Job Skills Elective BT 160 Job Preparation Techniques 3 CMST 121 Job Communication 5Kills 2 Math Related Instruction Requirement BUS 123 Practical Business Math Applications 5 MATH 090 Pre-Algebra 5 AAS - Early Childhood Education Option First Quarter EDUC& 204 Exceptional Child 5 ENCL& 104 Exceptional Child 5 ENCL& 104 Exceptional Child 5 ENCL& 104 Exceptional Child 5 ENCL& 104 Exceptional Child 5 ENCL& 204 Exceptional Child 5 ENCL& 204 Exceptional Child 5 ENCL& 104 Exceptional Child 5 ENCL& 104 Exceptional Child 5 ENCL& 104 Excepti | | | on Paraprofessional, Special Education | |
|---|-----------------------|--------|--|--------|
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| PSYC& 100 General Psychology Human Relations/Leadership Elective Total 5 Third Quarter ECED& 190 Observation and Assessment 3 HLTH 174 First Aid Human Relations/Leadership Elective 3 HLTH 174 First Aid Human Relations/Leadership Elective 2-3 Total 13-14 Fourth Quarter E EDUC 252 Social/Emotional Development 5 EDUC 280 Behavior/Classroom Management Electives ³ 5 Total 15 Fifth Quarter Electives ³ 4 EDUC 275 Learning Disabilities 5 EDUC 281 Education/Special Education Practicum I ⁵ 5 EDUC 281 Education/Special Education Practicum I ⁵ 5 EDUC 282 Education/Special Education Practicum I ⁶ 5 EDUC 282 Education/Special Education Practicum I ⁶ 5 BUS 121 Am Sign Language I 5 EDUC 282 Education/Special Education Practicum I ⁶ 5 90-91 credits are require | | | | - |
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| ECED& 190 Observation and Assessment 3 HLTH 174 First Aid 3 Human Relations/Leadership Elective 2-3 Total 13-14 Fourth Quarter EDUC 252 Social/Emotional Development 5 EDUC 250 Behavior/Classroom Management 5 EDUC 280 Behavior/Classroom Management 5 EDUC 275 Learning Disabilities 5 EDUC 281 Education/Special Education Practicum I 5 Electives 3 Total 17 Sixth Quarter ASL& 121 Am Sign Language I 5 EDUC 282 Education/Special Education Practicum II 5 EDUC 282 Education/Special Education Practicum II 5 EDUC 282 Education/Special Education Practicum II 5 BDUC 282 Education/Special Education Practicum II 5 BDUC 282 Education/Special Education Practicum II 5 BDUC 282 Education/Special Education Practicum | | | • | 15 |
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| HS 136 Improving Interpersonal Communication 5 HSGER 115 Multi-Cultural Perspectives in Human Services 5 Job Skills Elective 5 BT 160 Job Preparation Techniques 3 CMST 121 Job Communication Skills 2 Math Related Instruction Requirement 5 5 BUS 123 Practical Business Math Applications 5 MATH 090 Pre-Algebra 5 ¹ May substitute any MATH course 90 or above. 2 ² EDUC& 115 may be substituted with PSYC 210. 3 ³ This elective requirement may be met by any course or combination of courses numbered 100 or higher. 4 ⁴ Technology course needs to be from IS, CAPPS, GRDSN, LMLIB 126 or other Internet related course. 5 ⁵ Prerequisite: Must successfully pass a Basic Skills Test. See the instructor prior to registration. 5 AAS – Early Childhood Education Option First Quarter 5 EDUC& 204 Exceptional Child 5 ENGL& 101 English Composition I 5 | | | | 5 |
| in Human Services 5 Job Skills Elective BT 160 Job Preparation Techniques 3 CMST 121 Job Communication Skills 2 Math Related Instruction Requirement BUS 123 Practical Business Math Applications 5 MATH 090 Pre-Algebra 5 ¹ May substitute any MATH course 90 or above. ² EDUC& 115 may be substituted with PSYC 210. ³ This elective requirement may be met by any course or combination of courses numbered 100 or higher. ⁴ Technology course needs to be from IS, CAPPS, GRDSN, LMLIB 126 or other Internet related course. ⁵ Prerequisite: Must successfully pass a Basic Skills Test. See the instructor prior to registration. AAS – Early Childhood Education Option First Quarter EDUC& 204 Exceptional Child 5 ENGL& 101 English Composition I 5 Math Related Instruction Requirement 1 5 | HS | 136 | Improving Interpersonal Communication | |
| BT 160 Job Preparation Techniques 3 CMST 121 Job Communication Skills 2 Math Related Instruction Requirement 3 2 BUS 123 Practical Business Math Applications 5 MATH 090 Pre-Algebra 5 ¹ May substitute any MATH course 90 or above. 2 EDUC& 115 may be substituted with PSYC 210. 3 This elective requirement may be met by any course or combination of courses numbered 100 or higher. ⁴ Technology course needs to be from IS, CAPPS, GRDSN, LMLIB 126 or other Internet related course. 5 Prerequisite: Must successfully pass a Basic Skills Test. See the instructor prior to registration. 5 AAS – Early Childhood Education Option 5 First Quarter EDUC& 204 Exceptional Child 5 ENGL& 101 English Composition I 5 Math Related Instruction Requirement 1 5 | HSGER | 115 | | 5 |
| CMST 121 Job Communication Skills 2 Math Related Instruction Requirement BUS 123 Practical Business Math Applications 5 MATH 090 Pre-Algebra 5 ¹ May substitute any MATH course 90 or above. 2 ² EDUC& 115 may be substituted with PSYC 210. 3 This elective requirement may be met by any course or combination of courses numbered 100 or higher. 4 ⁴ Technology course needs to be from IS, CAPPS, GRDSN, LMLIB 126 or other Internet related course. 5 Prerequisite: Must successfully pass a Basic Skills Test. See the instructor prior to registration. 5 AAS – Early Childhood Education Option First Quarter EDUC& 204 Exceptional Child 5 ENGL& 101 English Composition I 5 Math Related Instruction Requirement ¹ 5 | Job Skills | Elec | | |
| Math Related Instruction Requirement BUS 123 Practical Business Math Applications 5 MATH 090 Pre-Algebra 5 ¹ May substitute any MATH course 90 or above. 5 ² EDUC& 115 may be substituted with PSYC 210. 5 ³ This elective requirement may be met by any course or combination of courses numbered 100 or higher. 6 ⁴ Technology course needs to be from IS, CAPPS, GRDSN, LMLIB 126 or other Internet related course. 5 ⁵ Prerequisite: Must successfully pass a Basic Skills Test. See the instructor prior to registration. 5 AAS - Early Childhood Education Option First Quarter 5 EDUC& 204 Exceptional Child 5 ENGL& 101 English Composition I 5 Math Related Instruction Requirement 1 5 | | | | 3 2 |
| BUS 123 Practical Business Math Applications 5 MATH 090 Pre-Algebra 5 1 May substitute any MATH course 90 or above. 2 2 EDUC& 115 may be substituted with PSYC 210. 3 3 This elective requirement may be met by any course or combination of courses numbered 100 or higher. 4 4 Technology course needs to be from IS, CAPPS, GRDSN, LMLIB 126 or other Internet related course. 5 5 Prerequisite: Must successfully pass a Basic Skills Test. See the instructor prior to registration. 5 AAS - Early Childhood Education Option First Quarter 5 EDUC& 204 Exceptional Child 5 ENGL& 101 English Composition I 5 Math Related Instruction Requirement 1 5 | | nted l | nstruction Requirement | |
| ¹ May substitute any MATH course 90 or above. ² EDUC& 115 may be substituted with PSYC 210. ³ This elective requirement may be met by any course or combination of courses numbered 100 or higher. ⁴ Technology course needs to be from IS, CAPPS, GRDSN, LMLIB 126 or other Internet related course. ⁵ Prerequisite: Must successfully pass a Basic Skills Test. See the instructor prior to registration. AAS – Early Childhood Education Option First Quarter EDUC& 204 Exceptional Child 5 ENGL& 101 English Composition I Math Related Instruction Requirement | BUS | 123 | Practical Business Math Applications | |
| ² EDUC& 115 may be substituted with PSYC 210. ³ This elective requirement may be met by any course or combination of courses numbered 100 or higher. ⁴ Technology course needs to be from IS, CAPPS, GRDSN, LMLIB 126 or other Internet related course. ⁵ Prerequisite: Must successfully pass a Basic Skills Test. See the instructor prior to registration. AAS – Early Childhood Education Option First Quarter EDUC& 204 Exceptional Child 5 ENGL& 101 English Composition I 5 Math Related Instruction Requirement 1 5 | | | | 5 |
| ³ This elective requirement may be met by any course or combination of courses numbered 100 or higher. ⁴ Technology course needs to be from IS, CAPPS, GRDSN, LMLIB 126 or other Internet related course. ⁵ Prerequisite: Must successfully pass a Basic Skills Test. See the instructor prior to registration. AAS – Early Childhood Education Option First Quarter EDUC& 204 Exceptional Child 5 ENGL& 101 English Composition I 5 Math Related Instruction Requirement 1 5 | inay suc | | | |
| ⁴ Technology course needs to be from IS, CAPPS, GRDSN, LMLIB 126 or other Internet related course. ⁵ Prerequisite: Must successfully pass a Basic Skills Test. See the instructor prior to registration. AAS – Early Childhood Education Option First Quarter EDUC& 204 Exceptional Child 5 ENGL& 101 English Composition I 5 Math Related Instruction Requirement 1 5 | ³ This ele | ctive | requirement may be met by any course or | |
| ⁵ Prerequisite: Must successfully pass a Basic Skills Test. See the instructor prior to registration. AAS – Early Childhood Education Option First Quarter EDUC& 204 Exceptional Child 5 ENGL& 101 English Composition I 5 Math Related Instruction Requirement 1 5 | ⁴ Technol | logy c | course needs to be from IS, CAPPS, GRDS | N, |
| AAS – Early Childhood Education OptionFirst QuarterEDUC& 204Exceptional Child5ENGL& 101English Composition I5Math Related Instruction Requirement5 | - | | | See |
| First Quarter EDUC& 204 Exceptional Child 5 ENGL& 101 English Composition I 5 Math Related Instruction Requirement 1 5 | | | | |
| EDUC& 204Exceptional Child5ENGL& 101English Composition I5Math Related Instruction Requirement 15 | | - | hildhood Education Option | |
| Math Related Instruction Requirement ¹ 5 | EDUC& | 204 | | |
| | ENGL& | 101 | | |

Total

| Second Quarter | | | | |
|---|--|---|----------------------------------|--|
| | 202 100 | Intro to Education General Psychology Human Relations/Leadership Elective Total | 5 5 5 15 | |
| | r ter 115 174 | | 5 3 5 2-3 -16 | |
| ECED& EDUC | arter 103 190 252 280 | College Success Observation and Assessment Social/Emotional Development Behavior/Classroom Management Total | 3 3 5 5 16 | |
| ECED& ECED& | ter 132 139 170 281 | Infants and Toddlers Administration of Early Learning Programs Learning Environments for Young Children Education/Special Education Practicum I ³ Total | 3 3 5 14 | |
| ECED& | r ter 134 160 282 | Family Child Care Curriculum Development Education/Special Education Practicum II Technology Elective ⁴ Total | 3 5 2 15 | |
| 90-91 cred | its ar | re required for the AAS | | |
| CMST& 2 HS | lation 210 136 115 | ns/Leadership Elective Interpersonal Communication Improving Interpersonal Communication Multi-Cultural Perspectives in Human Services | 5 5 5 | |
| | Elect 160 121 | t ive Job Preparation Techniques Job Communication Skills | 3 2 | |
| BUS | t ed Ir 123 090 | nstruction Requirement Practical Business Math Applications Pre-Algebra | 5 5 | |
| May substitute any MATH course 90 or above. EDUC& 115 may be substituted with PSYC 210. Prerequisite: Must successfully pass a Basic Skills Test. See the instructor prior to registration. Technology course needs to be from IS, CAPPS, GRDSN, LMLIB 126 or other Internet related course. | | | | |
| AAS – General Education Option | | | | |
| | 204 101 | Exceptional Child English Composition I Math Related Instruction Requirement ¹ Total | 5 5 5 15 | |
| | u arte 202 100 | r Intro to Education General Psychology Human Relations/Leadership Elective Total | 5 5 5 15 | |
| Third Quar EDUC& | rter 115 | Child Development ² | 5 | |

| HLTH | 174 | First Aid Human Relations/Leadership Elective Job Skills Elective Total | 3 5 2-3 5–16 |
|--|------------------------------|---|-------------------------------|
| Fourth Qu EDUC EDUC | iarter 252 280 | Social/Emotional Development Behavior/Classroom Management Electives ³ Total | 5 5 5 15 |
| Fifth Quar CMST& EDUC | r ter 101 281 | Introduction to Communication Education/Special Education Practicum I ⁴ Electives ³ Technology Elective ⁵ Total | 5 5 4 3 17 |
| Sixth Qua EDUC& EDUC | r ter 150 282 | Child, Family, Community Education/Special Education Practicum II Electives ³ Total | 3 5 3 13 |
| 90-91 crea | dits ar | re required for the AAS | |
| Human Ro CMST& HS HSGER | elatio 210 136 115 | ns/Leadership Elective Interpersonal Communication Improving Interpersonal Communication Multi-Cultural Perspectives in Human Services | 5 5 5 |
| Job Skills BT CMST | Elect 160 121 | t ive Job Preparation Techniques Job Communication Skills | 3 2 |
| Math Rela BUS MATH | t ed Ir 123 090 | | 5 5 |
| ¹ May substitute any MATH course 90 or above. ² EDUC& 115 may be substituted with PSYC 210. ³ This elective requirement may be met by any course or combination of courses numbered 100 or higher. ⁴ Prerequisite: Must successfully pass a Basic Skills Test. See the instructor prior to registration. ⁵ Technology course needs to be from IS, CAPPS, GRDSN, LMLIB 126 or other Internet related course. | | | |
| Library sci | ence | Library Media Technician Option (LMLIB) courses are offered once a year. ke LMLIB courses at any point in the cycle. | |
| First Quar EDUC& ENGL& | r ter 204 101 | Exceptional Child English Composition I Math Related Instruction Requirement ¹ Total | 5 5 5 15 |
| Second Q EDUC& PSYC& | uarte 202 100 | r Intro to Education General Psychology Human Relations/Leadership Elective Total | 5 5 5 15 |
| Third Qua EDUC& HLTH LMLIB | 115 174 280 | Child Development ² First Aid Library Employment and Workplace Issues Human Relations/Leadership Elective Total | 5 3 3 5 16 |

| Fourth Q | | | _ |
|-------------------------|----------------|---|----------|
| EDUC EDUC | 252 280 | Social/Emotional Development Behavior/Classroom Management | 5 5 |
| LMLIB | 115 | Introduction to Library | 5 |
| | | Organizational Systems | 5 |
| | | Total | 15 |
| Fifth Qua | | | |
| EDUC LMLIB | 281 125 | Education/Special Education Practicum I ⁴ School Libraries and Media Centers ² | 5 5 |
| | 125 | Library Technology and Services | J |
| | | for Educational Support | 3 |
| LMLIB | 220 | Technical Services II: Cataloging ³ Total | 5 18 |
| | | | |
| Sixth Qua EDUC | arter 282 | Education/Special Education Practicum II | 5 |
| LMLIB | 135 | Children's Literature and Library Services | 5 |
| LMLIB | 288 | Cooperative Education Work Experience (No Seminar) | 3 |
| | | Total | 13 |
| 92 credits | s are r | required for the AAS | |
| | | | |
| Human R CMST& | elatio 210 | ns/Leadership Elective Interpersonal Communication | 5 |
| HS | 136 | Improving Interpersonal Communication | 5 |
| HSGER | 115 | Multi-Cultural Perspectives in Human Services | 5 |
| | | in numan Services | 5 |
| Math Rela BUS | ated II 123 | nstruction Requirement Practical Business Math Applications | 5 |
| MATH | 090 | Pre-Algebra | 5 |
| | hotitut | a any MATH course 00 or above | |
| ² EDUC8 | 115 i | e any MATH course 90 or above. may be substituted with PSYC 210. | |
| | | ay be substituted for LMLIB 220. | |
| Prerequ | | Must successfully pass a Basic Skills Test. S prior to registration. | see |
| | | | |
| Certificat First Qua | - | | |
| EDUC& | 204 | Exceptional Child | 5 |
| EDUC EDUC | 252 280 | Social/Emotional Development Behavior/Classroom Management | 5 5 |
| LDOC | 200 | Total | 15 |
| Second C |)uarte | r | |
| EDUC | 275 | Learning Disabilities | 5 |
| | | Communications Elective Human Relations/Leadership Elective | 5 5 |
| | | Total | 15 |
| | | | |
| Third Qua BUS | 122 | Practical Business Math | 3 |
| EDUC | 270 | Introduction to Developmental Disabilities | 5 |
| HLTH | 174 | First Aid Certificate Electives | 3 4 |
| | | Total | 15 |
| 45 credits | s are r | equired for the Certificate | |
| Certificat | e Elec | ctives | |
| ASL& | 121 | Am Sign Language I | 5 |
| CAPPS CAPPS | 102 104 | Introduction to Office Beginning Windows Operating System | 1 1 |
| EDUC | 206 | Tutor Training | 1 |
| EDUC | 207 | Advanced Tutor Training | 1 |
| EDUC EDUC | 208 281 | Tutorial Practicum Education/Special Education Practicum I | 1-2 5 |
| FDUC | | Education/Special Education Practicum I | 5 |

| HS LMLIB LMLIB LMLIB | 126 | Child Abuse School Libraries and Media Centers Library Technology and Services for Educational Support Children's Literature and Library Services | 5 5 3 5 |
|-------------------------------|-----|---|------------------|
| Commun BT ENGL& | | ns Elective Business Communications English Composition I | 5 5 |
| Human R CMST& HS | | ns/Leadership Elective Interpersonal Communication Improving Interpersonal Communication | 5 5 |

EDUCATION PRE-MAJOR AA-DTA: SCC/SFCC

Education is the systematic study of the process of learning, its methods, history and philosophy. Students planning to receive a baccalaureate degree in education are strongly encouraged to coordinate their program of study with their chosen four–year college or university. While most four–year colleges will recognize the AA–DTA degree as satisfying their general education requirements, the courses used to fulfill the 25–credits of electives should be chosen carefully to expedite completion of the bachelor's degree.

AA-DTA

| See Requirements Worksheet for Details | ¹ 90 |
|--|-----------------|
| Total | 90 |

90 credits are required for the AA-DTA

Suggested Courses to Consider

| EDUC& | 204 | Intro to Education Exceptional Child Cooperative Education Work Experience | 5 5 2 |
|-------|-----|--|-------------|
| | | | |

Consult a counselor or academic adviser for recommended courses specific to student's choice of transfer institution.

EDUCATION PRE-MAJOR: Associate in Mathematics Education

Associate in Mathematics Education DTA: SCC/SFCC

The Associate in Mathematics Education (DTA) degree is an articulated transfer degree agreement for future secondary mathematics teachers between the community colleges and most four-year institutions within the state of Washington. Students will enter the four-year institution at junior standing. Admission to Washington four-year institutions' schools of education is not guaranteed to students holding an Associate in Mathematics Education DTA degree. It is highly recommended that students meet with a counselor or academic adviser at Spokane Community College or Spokane Falls Community College on a regular basis to be sure that requirements specified in this degree are met. Students should also seek academic advising at the four-year institution to which they plan to transfer early in their educational planning to learn about additional requirements and procedures for admission. A candidate for the Associate in Mathematics Education degree must complete a minimum of 90-92 quarter credits in academic courses numbered 100 or above with a cumulative grade point average of 2.0 and meet specific distribution requirements. Courses must be chosen from the following specified distribution areas: communication -15 credits, quantitative reasoning -25 credits, humanities -15 credits, social sciences -15 credits, science -10 credits, health-related and physical education/recreational and leisure activities -5 credits, additional required courses -5-7 credits. At least 5 credits must be W-designated (writingintensive). At least 5 credits must be D-designated

102 Introduction to Human Services

5

HS

(global/diversity). PE activity courses are limited to a maximum of three credits for the entire program. At least 30 credits must be earned in residence from Spokane Community College or Spokane Falls Community College with at least 15 credits earned at the college awarding the degree. Prior college–level credits and grade points are transferred for calculating total credits and GPA.

Use this program outline in conjunction with the degree worksheet which shows a full course listing for each distribution area. Consult a counselor or academic adviser for recommended courses specific to student's choice of transfer institution.

Associate in Mathematics Education DTA

| First Qua | | | |
|-----------|--------|--|----------------|
| ENGL& | 101 | English Composition I | 5 |
| MATH& | 151 | | 5 |
| PSYC& | 100 | General Psychology | 5 |
| | | Total | 15 |
| Second (| Quarte | er | |
| ENGL& | 102 | Composition II | 5 |
| MATH& | 152 | | 5 |
| | | Humanities Group A, B or C ¹ | 5 |
| | | Total | 15 |
| Third Qu | arter | | |
| CMST& | 101 | Introduction to Communication | 5 |
| MATH& | 153 | Calculus III | 5 |
| | | Education Course Requirement ² | 5-7 |
| | | Total | 15–17 |
| Fourth Q | | | |
| MATH | 220 | Elementary Linear Algebra ³ | 5 |
| | | Science Elective ¹ | 5 |
| | | Social Sciences Group A or B ¹ Total | 5 15 |
| | | lotai | 15 |
| Fifth Qua | | 2 | |
| MATH& | 254 | Calculus IV ³ | 5 |
| | | Humanities Group A, B or C 1 | 5 |
| | | Social Sciences Group B ¹ | 5 15 |
| | | Total | 15 |
| Sixth Qu | arter | | |
| | | Health-Related/PE/Recreational/ | _ |
| | | Leisure Course ¹ | 5 |
| | | Humanities Group A, B or C ¹ | 5 5 |
| | | Science Elective (laboratory course) ¹ Total | ວ 15 |
| | | | 13 |

90-92 credits are required for the Associate in Mathematics Education DTA

Education Course Requirement

| | | Intro to Education ² | 5 |
|------|-----|--|---|
| EDUC | 267 | Cooperative Education Work Experience ² | 2 |

Refer to Associate in Mathematics Education degree worksheet for list of approved courses and credit requirements in each distribution area.

- ² Student may select EDUC& 202 and EDUC 267 (7cr) at SCC, or EDUC& 202 (5cr) at SFCC. These courses are required for degree. Additionally, EDUC& 204 is recommended.
- ³ This course is offered at SFCC only.

EFFECTIVE BUSINESS WRITING Certificate: SCC

Students who earn this certificate will build on essential writing skills, including the ability to make appropriate choices in style, grammar, and mechanics. Courses included in this certificate will build the skills necessary to create effective messages with clearly defined purposes for target audiences both on and off-line, utilizing writing styles and communication strategies appropriate for various channels and modes of communication. Toward that end, students will learn to perform research when appropriate to support clearly defined business purposes and to understand and implement both textual and non-textual styles of communication. Students who are awarded this certificate will earn at least a 3.0 grade in all courses.

Certificate

First Quarter

| BT | 272 | Business Correspondence ¹ | 5 |
|----|-----|---|----|
| BT | 273 | Business Research and Report Writing | 5 |
| BT | 274 | Business Writing for the Web ¹ | 5 |
| | | Total | 15 |

15 credits are required for the Certificate

¹ BT 272 prerequisite writing score of at least 80 percent or successful completion of BT 105 with at least a 2.0 grade.

ELECTRICAL MAINTENANCE AND AUTOMATION AAS: SCC

Electrical maintenance and automation technicians are responsible for the maintenance, testing, repair, and/or replacement of the electrical systems and controls found in modern industrial plants and large commercial buildings.

As the electrical systems become more sophisticated, so must the skills of the electrical maintenance and automation technician. By mixing the theoretical with practical hands–on lab experiences using modern up–to–date industrial equipment and techniques, the student will be prepared for a challenging career in electrical maintenance.

Students are offered several options within the Electrical Maintenance and Automation program. They may choose to complete an AAS degree with specialized training in one of the following areas: Electrical Maintenance and Automation or Power Systems Maintenance. Electrical Trainee or Electrical Sales option certificates also are offered.

Students must maintain a 2.0 GPA in each course of the major discipline before advancing to the subsequent quarter. Students not meeting this minimum are required to repeat the deficient course before progressing.

Electrical maintenance and automation courses may be taken whenever they are offered and in any sequence as long as the student has fulfilled any prerequisites or has instructor permission. This plan allows a great deal of flexibility for retraining people in industry.

Potential students should possess a mechanical aptitude, good reading comprehension skills and the ability to pass a color blindness test.

AAS – Electrical Maintenance and Automation First Quarter

| Introduction to Computers for Technology | 3 |
|--|--|
| Applied Written Communication ¹ | 4 |
| Electrical Math | 5 |
| Electrical Theory | 5 |
| | Introduction to Computers for Technology Applied Written Communication ¹ Electrical Math Electrical Theory |

| ELMT ELMT | 113 114 | Safety and Tools Materials and Fasteners Total | 4 4 25 | |
|---|---|---|-------------------------------|--|
| Second C ELMT ELMT ELMT ELMT | Quarte 122 123 124 262 | | 5 5 4 4 18 | |
| Third Qu APLED ELMT ELMT ELMT ELMT | arter 123 131 132 135 252 | Leadership Skills for Business and Industry Solid State DC Generators and Motors DC Motor Controls Transformers and Industrial Lighting Total | 3 5 4 5 21 | |
| Fourth Q APLED ELMT ELMT ELMT ELMT | uartei 125 133 134 241 251 | Employment Preparation ¹ AC Motors and Alternators Introduction to AC Controls AC Motor Controls National Electric Code Total | 3 4 5 4 21 | |
| Fifth Qua ELMT ELMT ELMT ELMT | 242 243 253 254 | Advanced AC Controls Introduction to Programmable Controllers National Electric Code - Article 430 Programmable Controller Applications Total | 5 4 4 5 18 | |
| Sixth Qua ELMT ELMT ELMT ELMT | arter 244 263 265 268 | Solid State Motor Controls ² Wiring Techniques ² Advanced Programmable Controllers ² Programmable Controller Integration ² Total | 4 4 5 5 18 | |
| 121 credits are required for the AAS | | | | |

This related education requirement may be met by any course or combination of courses approved by the instructional dean.

2 This course may be substituted with cooperative education (2 credits ELMT 266 and 16 credits ELMT 267) with department permission only. The cooperative education supervisor must approve the worksite chosen. These courses must be taken in the final quarter.

Power Systems Maintenance

Only students who have received prior approval from the Bonneville Power Administration are eligible for this degree option.

First Quarter

| APLED | | Introduction to Computers for Technology | 3 |
|-------|-----|--|----|
| APLED | 121 | Applied Written Communication ¹ | 4 |
| ELMT | 111 | Electrical Math | 5 |
| ELMT | 112 | Electrical Theory | 5 |
| ELMT | 113 | Safety and Tools | 4 |
| ELMT | 114 | Materials and Fasteners | 4 |
| | | Total | 25 |
| | | | |

Second Quarter

| ELMT | 122 | DC Circuits | 5 |
|------|-----|-------------------|----|
| ELMT | 123 | AC Theory | 5 |
| ELMT | 124 | Motor Maintenance | 4 |
| ELMT | 262 | Raceways | 4 |
| | | Total | 18 |

| Third Qua APLED ELMT ELMT ELMT ELMT | 123 131 132 135 252 | Leadership Skills for Business and Industry Solid State DC Generators and Motors DC Motor Controls Transformers and Industrial Lighting Total | 3 5 4 5 21 | |
|--|--|---|-------------------------------|--|
| Fourth Qu APLED ELMT ELMT ELMT ELMT | Jarter 125 133 134 241 251 | Employment Preparation ¹ AC Motors and Alternators Introduction to AC Controls AC Motor Controls National Electric Code Total | 3 4 5 4 21 | |
| Fifth Quar FLPT FLPT FLPT FLPT FLPT | r ter 271 272 273 274 | Pneumatic Theory Pneumatic Math and Symbols Hydraulic Theory Applied Hydraulics Total | 5 4 5 4 18 | |
| Sixth Quarter Cooperative Education Electives ² 18 Total 18 | | | | |
| 121 credit | s are | required for the AAS | | |
| Cooperati ELMT ELMT ELMT | i ve Ed 266 267 288 | lucation Electives Cooperative Education Seminar Cooperative Education Work Experience Cooperative Education Work Experience (No Seminar) | 2 16 18 | |
| ¹ This related education requirement may be met by any course or combination of courses approved by the instructional dean. ² The cooperative education supervisor must approve the worksite chosen. ELMT 266 and 267 must be taken concurrently. | | | | |

ELECTRICAL TRAINEE **Certificate: SCC**

The Electrical Trainee Certificate program has been designed to meet a large variety of student and electrical industry needs. The student will be required to take six of the Electrical Maintenance Technician (ELMT) core classes along with vocational-related courses. In addition to the core classes, the student may select the electrical sales option with the cooperative education work experience component or choose four additional courses from the ELMT list.

This selection will be made with the aid of professional/technical counselors, faculty or industry advisers to best meet the needs of the individual student. Students who complete the certificate requirements will be ready to seek employment as sales associates in the electrical industry or as electrical trainees and can continue to develop their electrical skills through on-the-job work experience. Students may enter the program whenever the courses are offered. It should be noted that some courses do have prerequisites. ELMT courses may be taken in any sequence providing the student has fulfilled any prerequisites or has instructor permission.

Certificate ------Fi

| rter | | |
|------|--|--|
| 121 | Applied Written Communication ¹ | 4 |
| 111 | Electrical Math | 5 |
| 112 | Electrical Theory | 5 |
| 114 | Materials and Fasteners | 4 |
| | ELMT Course Elective(s) ² | 4 |
| | Total | 22 |
| | 121 111 112 | 121 Applied Written Communication ¹ 111 Electrical Math 112 Electrical Theory 114 Materials and Fasteners ELMT Course Elective(s) ² |

| Second | Quarte | er | |
|--------|--------|--------------------------------------|----|
| ELMT | 122 | DC Circuits | 5 |
| ELMT | 123 | AC Theory | 5 |
| ELMT | 262 | Raceways | 4 |
| | | ELMT Course Elective(s) ² | 4 |
| | | Total | 18 |
| | | | |

Third Quarter

| APLED | 125 | Employment Preparation ¹ | 3 |
|-------|-----|--------------------------------------|-------|
| | | ELMT Course Elective(s) ³ | 16-20 |
| | | Total | 19–23 |

59-63 credits are required for the Certificate

- ¹ This related education requirement may be met by any course or combination of courses approved by the instructional dean.
- ² Choose one additional ELMT course.
- ³ Choose four additional ELMT courses.

Certificate – Electrical Sales Option First Quarter

| APLED | 121 | Applied Written Communication ¹ | 4 |
|-------|-----|--|----|
| ELMT | 111 | Electrical Math | 5 |
| ELMT | 112 | Electrical Theory | 5 |
| ELMT | 114 | Materials and Fasteners | 4 |
| | | ELMT Course Elective(s) ² | 4 |
| | | Total | 22 |

Second Quarter

| APLED | 123 | Leadership Skills for Business and Industry | |
|----------|-------|--|----|
| ELMT | 122 | DC Circuits | 5 |
| ELMT | 123 | AC Theory | 5 |
| ELMT | 262 | Raceways | 4 |
| | | ELMT Course Elective(s) ² | 4 |
| | | Total | 21 |
| Third Qu | arter | | |
| APLED | 125 | Employment Preparation ¹ | 3 |
| | | Cooperative Education Electives ³ | 18 |
| | | Total | 21 |
| | | | |

64 credits are required for the Certificate

Cooperative Education Electives

| ELMT | 266 | Cooperative Education Seminar ³ | 2 |
|------|-----|--|----|
| ELMT | 267 | Cooperative Education Work Experience ³ | 16 |
| ELMT | 288 | Cooperative Education Work Experience | |
| | | (No Seminar) ³ | 18 |

¹ This related education requirement may be met by any course or combination of courses approved by the instructional dean.

² Choose one additional ELMT course.

³ ELMT 266 and 267 must be taken concurrently.

ELECTRONICS ENGINEERING TECHNICIAN AAS, Certificate: SCC

The electronics industry of today's highly technological world needs technicians prepared for the dynamic field of microcomputer–based electronic equipment maintenance. The program provides a seven–quarter, comprehensive curriculum to prepare the student to meet this need.

State–of–the art concepts are taught, as well as practical laboratory techniques, which provide the circuit analysis skills necessary for electronic technicians. Also included are studies in communication skills, computational skills and human relations skills.

Flexibility is provided to the student who chooses to receive a certificate of completion in electronics. This certificate is offered

after successful completion of four specific quarters of electronics study and related courses.

The associate in applied science degree option is most advantageous in securing employment in the electronics industry. To qualify for this degree, the student must successfully complete specific electronic courses, as well as student– selected advanced electronic options for a total of seven quarters of study. The degree candidate also must successfully complete specific related courses.

The Society of Broadcast Engineers offers an add-on certificate to the Computer and Data Communications Technician AAS degree. To earn a certificate, students must take ELECT 266 and ELECT 267 during summer quarter prior to or immediately following the seventh quarter. Consult with the department chair for more details.

Prerequisites: Appropriate ASSET or COMPASS scores in math, reading and writing (or alternative courses) must be met before admission into the program is granted. Written permission of the department chair or the technical division dean may supersede requirements.

To qualify for this degree, the student must successfully complete specific electronics courses, as well as student– selected advanced electronics options for a total of seven quarters of study. The student must also successfully complete specific related courses. Successful completion will be determined by meeting the following criteria:

- A student must achieve an overall grade point average of 2.0 in all of the required electronics courses, student–selected advanced electronics options, and required specific related courses.
- A student must pass each of the classes during the first three quarters of the program with a minimum grade of 1.7
- A student must pass each of the classes during the fourth through seventh quarters with a minimum grade of 2.0

Note: upon review, the department chairperson and/or Technical Education Dean may waive any or all of the previous criteria when extenuating circumstances arise.

AAS – Avionics

| ionic | 5 | |
|--------|---|---|
| rter | | |
| 110 | Computer Fundamentals for Electronics | 2 |
| 111 | DC Circuits | 2-7 |
| 112 | DC Circuit Lab | 2-5 |
| 113 | DC/AC Circuit Math | 1-5 |
| Tot | al | 7–19 |
| Quarte | | |
| 121 | Applied Written Communication ¹ | 4 |
| 121 | AC Circuits | 2-9 |
| | | 2-5 |
| - | | 1-5 |
| Tot | al | 9–23 |
| arter | | |
| | | 5 |
| | | 4 |
| | | 5 |
| | | 4 |
| Tot | al | 18 |
| uarter | | |
| 125 | | 3 |
| 211 | Digital Concepts | 5 |
| 212 | Digital Concepts Lab | 4 |
| | rter 110 111 112 113 Tot 121 121 122 123 Tot 136 137 138 139 Tot uarter 125 211 | 110 Computer Fundamentals for Electronics 111 DC Circuits 112 DC Circuit Lab 113 DC/AC Circuit Math Total Nuarter 121 Applied Written Communication ¹ 121 AC Circuits 122 AC Circuit Lab 123 Advanced DC/AC Circuit Math Total arter 136 Solid State Devices/Circuits 137 Solid State Devices/Circuits Lab 138 Linear Devices/Circuits Lab 139 Linear Devices/Circuits Lab Total uarter 125 Employment Preparation ¹ 211 Digital Concepts |

ELECT 213 Basic Computer Systems

| ELECT | 214 To f | Basic Computer Systems Lab al | 4 21 |
|--|---------------------------------------|---|--|
| Fifth Qua ELECT ELECT ELECT ELECT ELECT | 221 222 223 | Communication Fundamentals Lab Advanced Computer Systems Advanced Computer Systems Lab | 5 4 5 4 18 |
| Sixth Qu ELECT ELECT ELECT ELECT | 231 232 | Advanced Communications Advanced Communications Lab RF Communications RF Communications Lab cal | 5 4 5 4 18 |
| Seventh ELECT ELECT ELECT ELECT | 245 246 247 | Principles of Avionics Principles of Avionics Lab Avionics Systems Avionics Systems Lab | 5 4 5 4 18 |
| 109-135 | credit | s are required for the AAS | |
| or com | binatio | education requirement may be met by any on of courses approved by the department cal education division dean. | course chair |
| AAS – Co First Qua ELECT ELECT ELECT ELECT ELECT | arter 110 111 112 | DC Circuits DC Circuit Lab DC/AC Circuit Math | in 2-7 2-5 1-5 7–19 |
| Second (APLED ELECT ELECT ELECT | 121 121 122 | Applied Written Communication ¹ AC Circuits AC Circuit Lab Advanced DC/AC Circuit Math | 4 2-9 2-5 1-5 9–23 |
| Third Qu ELECT ELECT ELECT ELECT | 136 137 138 | Solid State Devices/Circuits Lab Linear Devices/Circuits Linear Devices/Circuits Lab | 5 4 5 4 18 |
| Fourth Q APLED ELECT ELECT ELECT ELECT | 125 211 | Employment Preparation ¹ Digital Concepts Digital Concepts Lab Basic Computer Systems Basic Computer Systems Lab | 3 5 4 5 4 21 |
| Fifth Qua ELECT ELECT ELECT ELECT ELECT | 221 222 223 224 To | Advanced Computer Systems Advanced Computer Systems Lab | 5 4 5 4 18 |
| Sixth Qu ELECT ELECT ELECT | 231 | Advanced Communications Lab | 5 4 5 |

Certificate

| First Qua | | | | | | |
|-----------|--------|--|------|--|--|--|
| ELECT | 110 | Computer Fundamentals for Electronics | 2 | | | |
| ELECT | 111 | DC Circuits | 2-7 | | | |
| ELECT | 112 | DC Circuit Lab | 2-5 | | | |
| ELECT | 113 | DC/AC Circuit Math | 1-5 | | | |
| | Tot | al | 7–19 | | | |
| | | | | | | |
| Second C | Quarte | er | | | | |
| APLED | 121 | Applied Written Communication ¹ | 4 | | | |
| ELECT | 121 | AC Circuits | 2-9 | | | |
| ELECT | 122 | AC Circuit Lab | 2-5 | | | |
| ELECT | 123 | Advanced DC/AC Circuit Math | 1-5 | | | |
| | Tot | al | 9–23 | | | |
| | | | | | | |
| Third Qu | | | | | | |
| ELECT | 136 | Solid State Devices/Circuits | 5 | | | |
| ELECT | 137 | Solid State Devices/Circuits Lab | 4 | | | |
| ELECT | 138 | Linear Devices/Circuits | 5 | | | |
| ELECT | 139 | Linear Devices/Circuits Lab | 4 | | | |
| | Tot | al | 18 | | | |
| | | | | | | |
| Fourth Q | | | _ | | | |
| APLED | 125 | | 3 | | | |
| ELECT | | | 5 | | | |
| ELECT | | 3 ··· · · · · · · · · · · · · · · · · · | 4 | | | |
| ELECT | - | | 5 | | | |
| ELECT | | | 4 | | | |
| | Tot | al | 21 | | | |
| 55-81 cre | dits a | re required for the Certificate | | | | |
| | | | | | | |

¹ This related education requirement may be met by any course or combination of courses approved by the department chair or the technical education division dean.

EMERGENCY MEDICAL TECHNICIAN (PARAMEDIC) AAS, Certificate: SCC

This program is for individuals that want to further their career in emergency medical services at the Paramedic level. Paramedics practice in the pre-hospital setting under somewhat autonomous conditions. They are governed by both standards of good clinical practice and standard written orders with the ever-present option for direct orders by qualified emergency physicians. As such, paramedics are expected to be excellent clinicians making decisions in a variety of patient presentations often based on a limited amount of information. Paramedics provide advanced clinical assessments and advanced interventions in trauma, cardiology, pulmonology, general medicine, pharmacology, general medicine, pharmacology, and other austere conditions.

The paramedic program at Spokane Community College meets or exceeds all standards for paramedic instruction set by the National Highway Transportation Safety Administration (NHTSA) and the Washington State Department of Health.

The paramedic program at Spokane College has maintained accreditation by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) through the Committee on Accreditation of Educational Programs for EMS Professionals (CoAEMSP) for the past 10 years. The program is currently on probationary status to review updates and changes to the program and anticipates returning to full status during subsequent review.

Following completion of the paramedic program students are eligible to sit for certification exams through the National Registry of Emergency Medical Technicians (NREMT) as well as state certifying authorities.

A 2.0 grade or better must be maintained in all classes.

Admission Requirements:

| / 011100101110 | oquironiento. | |
|---|---|------------------|
| Have ear | ears of age prior to beginning the program rned a High School Diploma or GED American Heart Association CPR for HCP alent | |
| Current I (a valid c | EMT–Basic or EMT–Intermediate certification certificate must be presented prior to admission | |
| One year level (a level) | 3 and EMS 129 satisfy this requirement) r experience at the EMT Basic or EMT–Intermedia etter of recommendation attesting to experience | ate |
| | submitted prior to admission) | |
| Appropriation or COMF | ate scores in one of the following: ASSET | |
| | Il prerequisite courses with a GPA of 2.0 or bette | r |
| AAS | 20 October Distance with the 1 | - |
| | 60 General Biology w/Lab ¹ 41 Human A & P 1 ¹ | 5 5 |
| | 42 Human A & P 2 1 | 5 5 |
| | 10 Chemical Concepts w/Lab ² | 5 |
| | 10 Interpersonal Communication ² | 5 |
| | 10^{-1} English Composition I 1^{-1} | 5 |
| | 7 Math in Society ² | 5 |
| | 00 General Psychology ² | 5 |
| | Fotal | 40 |
| First Quarte | r | |
| - | 00 Introduction to Paramedicine | 3 |
| | 02 Medical Communication and Documentation | 3 |
| | 06 General Pharmacology | 3 |
| | 08 Patient Assessment | 3 3 3 2 |
| - | 40 Paramedic Skills Lab I | 2 |
| | 15 Mathematics for Pharmacy Technicians | 3 17 |
| Second Qua | arter | |
| | 10 General Medicine I | 3 |
| - | 12 General Cardiology | 3 |
| - | 14 General Traumatology | 3 |
| EMS 24 | 42 Paramedic Skills Lab II | 2 |
| EMS 25 | 50 Paramedic Clinical I | 4 |
| ٦ | Fotal | 15 |
| Third Quart | | - |
| | 20 General Medicine II | 3 |
| EMS 22 | | 3 |
| | 24 Paramedic Operations | 3 |
| | 44 Paramedic Skills Lab III | 2 |
| | 52 Paramedic Clinical II Fotal | 4 15 |
| Fourth Quar | rter | |
| | 30 Special Topics In Paramedicine | 3 |
| | 60 Paramedic Internship I | 5 |
| | 52 Paramedic Internship II | 5 |
| ٦ | Fotal | 13 |
| 100 credits | are required for the AAS | |

100 credits are required for the AAS

- ¹ These courses are prerequisites and must be completed with a 2.0 grade or better prior to application for admission into the program. These courses are included in the total credits required for the certificate and degree.
- ² These courses must be completed with a 2.0 grade or better within a five-year period before or after the four quarter curriculum for graduation. Prerequisites for MATH& 107 are MATH 097,098 or 099 with a 2.0 or better within the last three years or appropriate placement score.

| Certificat BIOL& BIOL& BIOL& | e 160 241 242 Tot | Human A & P 1 ¹ Human A & P 2 ¹ | 5 5 5 15 |
|---|--|---|------------------------------------|
| First Qua EMS EMS EMS EMS EMS PHARM | 200 202 206 208 240 | Patient Assessment Paramedic Skills Lab I Mathematics for Pharmacy Technicians | 3 3 3 2 3 17 |
| Second C EMS EMS EMS EMS EMS ENGL | 210 212 214 242 250 189 Tot | General Medicine I General Cardiology General Traumatology Paramedic Skills Lab II Paramedic Clinical I Writing for Vocational Students ² | 3 3 2 4 3 18 |
| Third Qua CMST EMS EMS EMS EMS EMS | arter 127 220 222 224 244 252 Tot | Paramedic Operations Paramedic Skills Lab III Paramedic Clinical II | 3 3 3 2 4 18 |
| Fourth Q EMS EMS EMS | uartei 230 260 262 Tot | Special Topics In Paramedicine Paramedic Internship I Paramedic Internship II | 3 5 5 13 |

81 credits are required for the Certificate

¹ These courses are prerequisites and must be completed with a 2.0 grade or better prior to application for admission into the program. These courses are included in the total credits required for the certificate and degree.

² ENGL 189 may be substituted with ENGL& 101.

ENGINEERING PRE-MAJOR

AS-T 2 – Bioengineering and Chemical pre–Engineering, AS-T 2 – Computer and Electrical pre–Engineering, AS-T 2 – Mechanical/Civil/Aeronautical/Industrial pre– Engineering: SFCC

Engineering is the profession in which knowledge of the mathematical and natural sciences, gained by study, experience and practice, is applied to economically use the materials and forces of nature for the benefit of society.

The two-year program at SFCC is intended to prepare the student for transfer to a four-year engineering college at the junior level. The following curriculum outline is designed to meet most lower-division requirements of various engineering disciplines and should be used as a guide to obtain an Associate in Science Transfer Track 2 (AS-T 2) degree in Engineering. This degree requires 5 writing intensive credits ("W") and a design component. The "W" requirement can be met in several courses and the design component can be met with various ENGR courses.

Individual consultation with an engineering adviser is strongly encouraged.

| AS–T 2 – Bioengineering and Chemical pre–Engineering First Quarter | | | | |
|---|----------------------------|---|-------------------------------|--|
| CHEM& ENGR MATH& | 161 120 151 | General Chem: w/Lab I Introduction to Engineering Computation Calculus I Total | 5 2 5 12 | |
| Second G | Quarte | er | | |
| CHEM& ENGL& MATH& | 162 101 152 | | 5 5 5 15 | |
| Third Qua | | | _ | |
| CHEM& ENGR MATH& | 163 240 153 | General Chem w/ Lab III Applied Numerical Methods for Engineers Calculus III Total | 5 3 5 13 | |
| Fourth Q | uartei | · · · · · · · · · · · · · · · · · · · | 10 | |
| | | Program Electives: Bioengineering/Chemical ¹ Total | 10 10 | |
| Fifth Qua CHEM& CHEM& PHYS | 241 | Organic Chem I Organic Chem Lab I Engineering Physics I Program Electives: Bioengineering/Chemical ¹ Total | 3 2 5 5 15 | |
| Sixth Qua | ortor | | | |
| CHEM& | 242 | Organic Chem II | 3 | |
| CHEM& MATH& PHYS | 252 254 202 | Organic Chem Lab II Calculus IV Engineering Physics II Total | 2 5 5 15 | |
| CHEM& MATH& PHYS | 254 202 Quart | Calculus IV Engineering Physics II Total er | 5 5 | |
| CHEM& MATH& PHYS | 254 202 Quart | Calculus IV Engineering Physics II Total er Elementary Differential Equations Engineering Physics III Program Electives: | 5 5 15 5 5 | |
| CHEM& MATH& PHYS Seventh MATH | 254 202 Quart 274 | Calculus IV Engineering Physics II Total er Elementary Differential Equations Engineering Physics III | 5 5 15 5 | |

95 credits are required for the AS-T 2 – Bioengineering and Chemical pre-Engineering

| Program Electives: Bioengineering/Chemical | | | | |
|--|-------|--------------------------------------|---|--|
| BIOL& | 222 | Majors Cell/Molecular: w/Lab | 5 | |
| CHEM& | 243 | Organic Chem III | 3 | |
| CHEM& | 253 | Organic Chem Lab III | 2 | |
| ENGL& | 235 | Technical Writing | 5 | |
| ENGR | | 5 | 5 | |
| MATH | 220 | , | 5 | |
| | | | | |
| Program | Elect | ives: Computer/Electrical | | |
| BIOL& | 222 | | 5 | |
| ENGL& | 235 | Technical Writing ⁷ | 5 | |
| ENGR | 110 | Engineering Problems and Orientation | 3 | |
| ENGR | 201 | Statics 7 | 5 | |
| ENGR | 202 | Dynamics | 5 | |
| | | | | |
| | | ives: Mechanical/Civil/Aero/Indust | | |
| CHEM& | | | 5 | |
| ENGL& | 235 | Technical Writing ⁸ | 5 | |
| ENGR | 110 | Engineering Problems and Orientation | 3 | |
| ENGR | 111 | | 2 | |
| ENGR | 210 | 0 | 5 | |
| | | | | |

¹ The AS–T 2 requires 5cr of Social Science, 5cr of Humanities and 5cr from either Social Sciences or Humanities (a course in Macro Economics is recommended). The AS–T 2 also requires 10cr chosen from the Bioengineering/Chemical pre– Engineering elective list. Consultation with the engineering adviser is strongly recommended for major–related courses specific to student's choice of transfer institution and discipline exit code.

- ² The AS-T 2 requires 5cr of Social Science, 5cr of Humanities, and 5cr from either Social Sciences or the Humanities. The AS-T 2 also requires 10cr in engineering electives. Consultation with the engineering adviser is strongly recommended for major-related courses specific to student's choice of transfer institution and discipline exit code.
- ³ Although two quarters of computer language are required for the AS-T 2, Gonzaga University requires CS& 141 only for Electrical Engineering, and Eastern Washington University requires CS 255 only for Electrical Engineering.
- ⁴ Although required for the AS-T 2 degree, Gonzaga University does not require Math 220 (Linear Algebra) for Electrical or Computer Engineering, but requires ENGR 201 (Statics) for Electrical Engineering.
- ⁵ Students should consult intended transfer institution for computer language requirements.
- ⁶ Eastern Washington University does not require linear algebra for Mechanical Engineering.
- ⁷ Two of the three courses (BIOL& 222, ENGL& 235, ENGR 201) are required for the AS-T 2.
- ⁸ One of the two courses (ENGL& 235, ENGR 210) is required for the AS–T 2.

AS–T 2 – Computer and Electrical pre–Engineering First Quarter

| CHEM& MATH& | 161 151 | General Chem: w/Lab I Calculus I Program Electives: Computer/Electrical ² Total | 5 5 5 15 |
|----------------------------|---------------------|--|--------------------------|
| Second (CS& | Quarte | e r Computer Science I Java ³ | 5 |
| ENGR MATH& | 190 152 | Electronic Logic Calculus II Total | 5 5 15 |
| Third Qu | arter | | |
| CS ENGL& MATH& | 142 101 153 | Introduction to Computer Science II ³ English Composition I Calculus III | 5 5 5 |
| ΜΑΙΠα | 155 | Program Electives: Computer/Electrical ² Total | 0-5 15–20 |
| Fourth Q | uarter | , Program Electives: Computer/Electrical ² Total | 10 10 |
| Fifth Qua ECON& MATH | arter 202 220 | Macro Economics Elementary Linear Algebra ⁴ | 5 5 |
| PHYS | 201 | Engineering Physics I Program Electives: Computer/Electrical ² Total | 5 0-5 15–20 |
| Sixth Qu | arter | | |
| MATH& PHYS | 254 202 | Calculus IV Engineering Physics II Program Electives: Computer/Electrical ² Total | 5 5 5 15 |
| Seventh | Quart | er | |
| ENGR | 210 | Electric Circuit Theory | 5 |
| MATH PHYS | 274 203 | Elementary Differential Equations Engineering Physics III | 5 5 |
| | | Total | 15 |

100-110 credits are required for the AS-T 2 – Computer and Electrical pre–Engineering

| Program ElectBIOL& 222CHEM& 243CHEM& 253ENGL& 235ENGR210MATH220 | Organic Chem Lab III Technical Writing | 5 3 2 5 5 5 |
|--|---|----------------------------|
| ProgramElectBIOL&222ENGL&235ENGR110ENGR201ENGR202 | ives: Computer/Electrical Majors Cell/Molecular: w/Lab ⁷ Technical Writing ⁷ Engineering Problems and Orientation Statics ⁷ Dynamics | 5 5 3 5 5 |
| Program Elect CHEM& 163 ENGL& 235 ENGR 110 ENGR 111 ENGR 210 | ives: Mechanical/Civil/Aero/Indust General Chem w/ Lab III Technical Writing ⁸ Engineering Problems and Orientation Engineering Projects Electric Circuit Theory ⁸ | 5 5 3 2 5 |
| and 5cr from Macro Econor requires 10c Engineering adviser is str specific to str exit code. The AS-T 2 and 5cr from AS-T 2 also Consultation recommender choice of trait Although two the AS-T 2, Electrical En requires CS Although req does not req Computer Er Electrical En Students sho computer lar Eastern Was for Mechanic Two of the th 201) are require | requires 5cr of Social Science, 5cr of Huma either Social Sciences or Humanities (a cou- prices is recommended). The AS–T 2 also r chosen from the Bioengineering/Chemical elective list. Consultation with the engineerin ongly recommended for major–related course udent's choice of transfer institution and disc requires 5cr of Social Science, 5cr of Human either Social Sciences or the Humanities. T requires 10cr in engineering electives. with the engineering adviser is strongly d for major–related courses specific to stud hsfer institution and discipline exit code. o quarters of computer language are required Gonzaga University requires CS& 141 only gineering, and Eastern Washington Univers 255 only for Electrical Engineering. uired for the AS–T 2 degree, Gonzaga Univ uire Math 220 (Linear Algebra) for Electrical highering. buld consult intended transfer institution for guage requirements. hington University does not require linear algo al Engineering. uree courses (BIOL& 222, ENGL& 235, ENG uired for the AS–T 2. wo courses (ENGL& 235, ENGR 210) is required for the AS–T 2. | rse in pre |
| for the AS-T AS-T 2 – Mecl pre-Engineeri First Quarter CHEM& 161 ENGR 120 MATH& 151 | nanical/Civil/Aeronautical/Industrial ng General Chem: w/Lab I | 5 2 5 12 |
| Second Quart CHEM& 162 MATH& 152 | er General Chem w/ Lab II | 5 5 5 15 |

| Third C ENGR ENGR MATH8 | 103 240 | Engineering Graphics/CAD Applied Numerical Methods for Engineers Calculus III Program Electives: | 5 |
|----------------------------------|--------------------------------|--|---------------------|
| | | Mechanical/Civil/Aero/Indust ² Total | 5 18 |
| | Quarter | | _ |
| ECON8 ENGL& | | Macro Economics English Composition I Program Electives: Mechanical/Civil/Aero/Indust ² | 5 5 5 |
| | | Total | 15 |
| Fifth Q | uarter | | |
| ENGR MATH | 201 220 | Statics Elementary Linear Algebra ⁶ | 5 5 |
| PHYS | 220 | Engineering Physics I | 5 |
| | | Total | 15 |
| Sixth C | | | - |
| ENGR MATH8 | 202 254 | Dynamics Calculus IV | 5 5 |
| PHYS | 202 | Engineering Physics II | 5 |
| | | Total | 15 |
| | h Quart | | - |
| ENGR MATH | 203 274 | Mechanics of Materials Elementary Differential Equations | 5 5 |
| PHYS | 203 | Engineering Physics III | 5 |
| | | Program Electives: Mechanical/Civil/Aero/Indust ² | 0 5 |
| | | Total | 0-5 15–20 |
| 105-110 |) credits | s are required for the AS–T 2 – | |
| Mechai | nical/Civ | /il/Aeronautical/Industrial pre-Engineeri | ng |
| | | ves: Bioengineering/Chemical | - |
| BIOL& CHEM8 | 222 243 | Majors Cell/Molecular: w/Lab Organic Chem III | 5 3 |
| CHEM | | | 2 |
| ENGL& | | Technical Writing | 5 |
| ENGR MATH | 210 220 | Electric Circuit Theory Elementary Linear Algebra | 5 5 |
| | - | | 5 |
| Progra BIOL& | m Electi 222 | ves: Computer/Electrical Majors Cell/Molecular: w/Lab ⁷ | 5 |
| ENGL& | | Technical Writing ⁷ | 5 |
| ENGR | 110 | Engineering Problems and Orientation | 3 |
| ENGR ENGR | 201 202 | Statics ⁷ Dynamics | 5 5 |
| | - | | Ū |
| Progra CHEM8 | | ves: Mechanical/Civil/Aero/Indust General Chem w/ Lab III | 5 |
| ENGL& | | Technical Writing ⁸ | 5 |
| ENGR | 110 | Engineering Problems and Orientation | 3 |
| ENGR ENGR | 111 210 | Engineering Projects Electric Circuit Theory ⁸ | 5 3 2 5 |
| | | - | - |
| and 5 Macr requi | or from o Econo res 10cr | equires 5cr of Social Science, 5cr of Huma either Social Sciences or Humanities (a cou- mics is recommended). The AS–T 2 also chosen from the Bioengineering/Chemical elective list. Consultation with the engineeri | ırse in pre– |

- adviser is strongly recommended for major-related courses specific to student's choice of transfer institution and discipline exit code.
- ² The AS–T 2 requires 5cr of Social Science, 5cr of Humanities, and 5cr from either Social Sciences or the Humanities. The AS–T 2 also requires 10cr in engineering electives. Consultation with the engineering adviser is strongly

recommended for major-related courses specific to student's choice of transfer institution and discipline exit code.

- ³ Although two quarters of computer language are required for the AS-T 2, Gonzaga University requires CS& 141 only for Electrical Engineering, and Eastern Washington University requires CS 255 only for Electrical Engineering.
- ⁴ Although required for the AS-T 2 degree, Gonzaga University does not require Math 220 (Linear Algebra) for Electrical or Computer Engineering, but requires ENGR 201 (Statics) for Electrical Engineering.
- ⁵ Students should consult intended transfer institution for computer language requirements.
- ⁶ Eastern Washington University does not require linear algebra for Mechanical Engineering.
- Two of the three courses (BIOL& 222, ENGL& 235, ENGR 201) are required for the AS-T 2.
- One of the two courses (ENGL& 235, ENGR 210) is required for the AS-T 2.

ENGLISH PRE-MAJOR AA-DTA: SCC/SFCC

A major in English provides an excellent background for a wide variety of careers. The student should realize that a major or minor in English is considered desirable for such courses of study as pre–law, psychology, journalism, TV–radio, advertising, human relations, history, public relations, or teaching.

Students are provided with opportunities to improve their communication and critical skills. Writing courses provide practical experience in expository, creative and technical writing. The objective of all literature and humanities classes is to create an awareness and appreciation of the role of literature by examining and analyzing the historical, structural and artistic development of the works.

AA-DTA

| Suggested Courses to Consider ¹ | 90 |
|--|----|
| Total | 90 |

90 credits are required for the AA-DTA

¹ Consult a counselor or academic adviser for recommended courses specific to student's choice of transfer institution.

ESTHETICIAN Certificate: SCC

Students enrolling in the Esthetician Certificate program will receive training in all phases of skin care. Emphasis will be on the use of facial machines; temporary hair removal; various types of facial treatments; face, neck, and hand massage techniques; and all safety and sanitation measures involved with these processes. Upon successful completion of the coursework, the student will be prepared to take the Washington State Examination in Esthetics.

Program Requirements:

- Students must maintain a 2.1 in all professional classes to complete the program and pass exit exams with a minimum score of 2.1 to be prepared to take the Washington State licensing examination of esthetics.
- Upon successful completion of the coursework, the student will be prepared to take the Washington State Examination in Esthetics.

Physical Requirements:

- Normal or corrected vision
- Physical dexterity, i.e., small object manipulation

- Must be able to work with arms at shoulder level for extended periods of time
- Must be able to sit or stand for extended periods of time

Certificate

| Esthetics Concepts I | 4 |
|--|---|
| Esthetics Applications I | 10 |
| Advanced Esthetics Concepts | 1 |
| Basic First Aid in the Workplace | 2 |
| Total | 17 |
| | |
| er | |
| Esthetics Concepts II | 4 |
| Esthetics Applications II ¹ | 10 |
| Advanced Esthetics Applications | 2 |
| Total | 16 |
| | |
| Esthetics Concepts III | 4 |
| • | 5 |
| Total | 9 |
| | Esthetics Applications I Advanced Esthetics Concepts Basic First Aid in the Workplace Total er Esthetics Concepts II Esthetics Applications II ¹ Advanced Esthetics Applications Total Esthetics Concepts III Esthetics Applications III |

42 credits are required for the Certificate

¹ COS 126 may be substituted with COS 288, with permission of instructor. Washington State Licensure requirements allow up to 10% of the student academic instruction to be met at an off campus-site.

EXPANDED FUNCTION DENTAL AUXILIARY Certificate: SCC

A two–quarter program designed to prepare the student for employment as an Expanded Function Dental Auxiliary to the dentist. A third quarter is available for preparation of national and state examinations.

This program is designed for the dental assistant or dental hygienist who has graduated from a school that is accredited by the American Dental Association, Commission on Dental Accreditation (CODA) or has successfully completed the Dental Assisting National Board examination or a Licensed Dental Hygienist. The program will cover content that will prepare the student to pass both a written and a clinical examination to become a Washington State, Expanded Function Dental Auxiliary (EFDA). Students upon passing the examinations can seek licensure to become EFDAs.

The course will include the evaluation of the student's ability to perform identified skills under the dentist's general supervision to include: patient oral health instruction, coronal polishing, fluoride treatments, sealants, expose, process and mount dental radiographs, knowledge of dental morphology, pharmacology, emergencies, risk management as related to dental charting, health history alerts, and temporization.

Students will cover content which focuses on the didactic, laboratory and clinical components of the amalgam and composite curriculum to include: armamentarium including various matrices, classification of restorations, components of the prepared tooth; materials, composition of amalgam and composite materials, advantages and disadvantages, indications and contraindication; placement and finishing of composites, placement condensing and carving of amalgams; evaluation of restoration; and occulusal adjustment.

The course will cover content on the didactic and laboratory components of taking preliminary and final impressions and bite registrations to include computer assisted design and computer assisted manufacture applications. Admission Recommended/Required:

- Dental Assisting National Board Current Certification Card and/or Certificate or Degree from a Dental Assisting or Dental Hygiene program that is accredited by the American Dental Association, Commission on Dental Accreditation (CODA).
- Computer skills recommended
- Active email account required
- Each required course for graduation must be completed with a 2.0 grade or better before proceeding to the next quarter.
- Students may repeat an advanced dental assisting course once, but it must be repeated within two years.

| Certifica First Qu DENT DENT DENT DENT DENT | | EFDA Amalgam Restorations EFDA Amalgam Lab EFDA Amalgam Clinical | 5 2 4 3 |
|---|--------|--|------------------|
| | | Total | 16 |
| Second | Quarte | er | |
| DENT | 151 | EFDA Composite Restorations | 3 |
| DENT | 152 | EFDA Composite Lab | 4 |
| DENT | 154 | EFDA Composite Clinical | 3 |
| DENT | 155 | EFDA Impressions/Provisional | 3 |
| DENT | 158 | EFDA Impressions/Provisional-Lab | 2 |
| DENT | 160 | EFDA Exam Preparation | 3 |
| | | Total | 18 |

34 credits are required for the Certificate

FIRE OFFICER AAS, Certificate: SCC

The Fire Officer program is designed to enhance the technical and general education of the volunteer and career firefighter. The program builds on the basic fire service information which allows the firefighter to gain the knowledge and understanding of information required for work at the officer level within the fire service. Students are given a good educational foundation which is coupled with a broad spectrum of technical information that will help them perform the duties of a fire officer within their jurisdiction. The degree is targeted to current firefighters or fire officers.

AAS

| Electives ¹ | 6-7 |
|-----------------------------|-------|
| First Year | 50 |
| Second Year | 27 |
| Work Based Learning Courses | 14 |
| Total | 97–98 |

97-98 credits are required for the AAS

| Electives FOD FOD | | Fire Investigation Fire Inspection and Codes | 3 4 |
|-------------------------|-----|---|--------|
| First Yea | r | | |
| CHEM& | 110 | Chemical Concepts w/Lab | 5 |
| CIS | 110 | Introduction to Computer Applications | 5 |
| CMST& | 101 | Introduction to Communication | 5 |
| CMST | 227 | Intercultural Communication | 5 |
| ENGL& | 101 | English Composition I | 5 |
| ENGL& | 102 | Composition II | 5 |
| MATH | 201 | Introduction to Finite Mathematics | 5 |
| PHYS | 100 | Introductory Physics | 5 |
| PSYC& | 100 | General Psychology | 5 |
| SOC& | 101 | Intro to Sociology | 5 |

| Second Y FOD FOD FOD FOD FOD FOD FOD FOD FOD | ear 101 103 110 131 133 140 201 203 210 | Fire Officer IA Fire Officer IB Fire Service Leadership Fire Service Instructor I Fire Service Instructor II Fire Service Incident Safety Officer Fire Officer IIA Fire Officer IIB Incident Management- Multi-Company Operations | 4 3 3 3 2 3 3 3 3 3 | |
|---|--|--|--|--|
| Work Bas | ed Le | earning Courses | | |
| FOD FOD FOD | | Fire Officer IA Work Based Learning Fire Officer IB Work Based Learning Fire Service Instructor II | 2 3 | |
| FOD FOD | 202 204 | | 3 3 3 | |
| | | ituted with any course or combination of course the department chair. | es | |
| Certificate First Quar FOD FOD FOD | - | | 4 2 3 9 | |
| Second Q FOD FOD | uarte 131 206 | | 3 4 7 | |
| 16 credits are required for the Certificate | | | | |

FIRE SCIENCE TECHNOLOGY AAS: SCC

The Fire Science Technology program is designed to prepare students for entry–level careers as firefighters for municipal, industrial, state and federal fire departments. The primary mission of the Fire Science Technology program is identification and mitigation of emergencies in order to preserve life and property.

A 2.0 grade or better must be maintained in all courses required for a degree.

Graduation Requirements:

• Emergency Medical Technician–Basic. EMT is a condition of graduation and must be obtained by the seventh quarter. This can be accomplished by taking EMS 128 and EMS 129 or by providing proof of completion from an outside agency. EMT completion must be submitted with petition to graduate.

AAS

| First Qua | arter 101 | English Composition I | 5 |
|-----------|--------------|---|----|
| FS | 100 | Orientation to Fire Science ¹ | 2 |
| PE | 188 | Basic Fitness I | 2 |
| | | Math Elective | 5 |
| | | Recommended Liberal Arts Electives ³ | 5 |
| | | Total | 19 |
| Second (| Quarte | er | |
| CHEM& | 110 | Chemical Concepts w/Lab | 5 |
| CMST& | 220 | Public Speaking | 5 |

| FS | 152 | Building Construction ⁴ PE Elective ² Total | 3 1 14 | | |
|---|--|--|------------------------------------|--|--|
| ENGL& | rter 210 102 177 | | 5 5 3 1 5 19 | | |
| Fourth Qu | arter | | | | |
| FS 2 | 105 211 212 | Introduction to Fire Science | 4 4 1 15 | | |
| FS 2 FS 2 | ter 170 221 222 233 | Intermediate Fire Science Fire Science Applications II | 3 4 6 2 1 16 | | |
| FS 2 | | | 3 4 6 1 14 | | |
| Seventh Q | uart | er EMT Requirement ⁷ Total | 0-13.1 0–13.1 | | |
| 97-110.1 c | redit | s are required for the AAS | | | |
| EMT Requ | irem | ent | | | |
| EMS | 128 | Emergency Medical Technician- Basic Lecture | 10 | | |
| EMS | 129 | Emergency Medical Technician-Basic | 3.1 | | |
| Math Elect | live | | | | |
| BUS MATH& | 103 107 201 | Basic Business Math and Electronic Calculators Math in Society Introduction to Finite Mathematics | 5 5 5 | | |
| PE Electiv | е | | | | |
| | 139 | Weight Training | 1 | | |
| | | Fast Fitness, Beginning Cross Training | 1 2 | | |
| PE 2 | 239 | Weight Training | 1 | | |
| | | Fast Fitness, Advanced | 1 | | |
| | | Cross Training Basic Fitness II | 2 2 | | |
| ¹ First yea | r fire | science students only. This course is offe | ered fall | | |
| quarter o | quarter only. | | | | |
| five times. ³ Any course acceptable for an AA degree, except physical | | | | | |
| | | | | | |

³ Any course acceptable for an AA degree, except physical education and aquatics courses. Any business, business technology, computer information systems, management or marketing courses numbered 100 or higher.

- ⁴ This course is offered winter quarter only.
- ⁵ MATH& 107 has a prerequisite of MATH 097 or MATH 099 with a 2.0 or better within the last three years or appropriate placement score.

- ⁶ MATH 201 has a prerequisite of MATH 097 or MATH 099 with a 2.0 or better within the last three years or appropriate placement score. College level reading scores recommended.
- ⁷ This requirement may be satisfied with proof of EMT certification and approval from the Fire Science program lead.

FLORIST AAS, Certificate: SCC

Degree: The Floral program provides a study of ornamental plant materials, plant propagation and design, identification and retail sales of cut flowers and potted plants. At the completion of the second year, the student may receive the associate in applied science degree.

The following is a typical student schedule, individual student schedules may differ slightly depending on course availability. Courses may be offered only in the quarter indicated. Outlined curriculum assumes students begin the program fall quarter and continue winter and spring quarters, with summer quarter off. It is recommended that students work closely with the program adviser when planning classes.

The floral certificate provides a study of floral arrangements techniques and retail sales methods of cut flowers and potted plants. Students must enter fall quarter in order to finish three quarters.

AAS

First Quarter

| | irter | | |
|--|--|--|--|
| AGHRT | 126 | Computer Essentials | |
| | | for Environmental Sciences ¹ | 2 |
| AGHRT | 184 | AgHort Occupational Preparation ² | 1-3 |
| AGHRT | 211 | Floral Design Techniques | 5 |
| APLED | 112 | Applied Mathematics ³ | 3 |
| APLED | 121 | Applied Written Communication ⁴ | 4 |
| | | | 15–17 |
| Second C | Quarte | er | |
| AGHRT | 105 | Horticultural Retail Sales | 3 |
| AGHRT | 111 | House Plants | 5 |
| AGHRT | 116 | Green Industry Business Management ³ | 5 |
| AGHRT | 212 | Floral Design Applications | 5 |
| | | Total | 18 |
| | | | |
| Third Qu | | | |
| AGGEN | 151 | Shop Skills | 4 |
| AGHRT | 103 | Introduction to Greenhouse | |
| | | and Nursery Production | 3 |
| AGHRT | 185 | AgHort Occupational Preparation ² | 1-3 |
| AGHRT | 213 | Retail Floristry | 5 |
| - | - | | - |
| - | - | | 13–15 |
| Fourth Q | uarter | Total | 13–15 |
| Fourth Q AGHRT | uarter | Total | |
| | | Total | 13–15 5 2 |
| AGHRT | 106 | Total Greenhouse and Nursery Management I Practicum ⁵ | 5 2 |
| AGHRT AGHRT | 106 195 | Total Greenhouse and Nursery Management I | 5 |
| AGHRT AGHRT ENVS | 106 195 110 | Total Greenhouse and Nursery Management I Practicum ⁵ Plant Biology | 5 2 5 |
| AGHRT AGHRT ENVS ENVS | 106 195 110 210 | Total Greenhouse and Nursery Management I Practicum ⁵ Plant Biology Environmental Soil Science | 5 2 5 5 |
| AGHRT AGHRT ENVS ENVS Fifth Qua | 106 195 110 210 | Total Greenhouse and Nursery Management I Practicum ⁵ Plant Biology Environmental Soil Science Total | 5 2 5 5 17 |
| AGHRT AGHRT ENVS ENVS Fifth Qua AGHRT | 106 195 110 210 arter 104 | Total Greenhouse and Nursery Management I Practicum ⁵ Plant Biology Environmental Soil Science Total Principles of Pest Management | 5 2 5 5 17 5 |
| AGHRT AGHRT ENVS ENVS Fifth Qua AGHRT AGHRT | 106 195 110 210 arter 104 107 | Total Greenhouse and Nursery Management I Practicum ⁵ Plant Biology Environmental Soil Science Total Principles of Pest Management Greenhouse and Nursery Management II | 5 2 5 5 17 5 5 |
| AGHRT AGHRT ENVS ENVS Fifth Qua AGHRT AGHRT | 106 195 110 210 arter 104 107 240 | Total Greenhouse and Nursery Management I Practicum ⁵ Plant Biology Environmental Soil Science Total Principles of Pest Management Greenhouse and Nursery Management II Practicum - Floral Design Projects 1 | 5 2 5 5 17 5 3 |
| AGHRT AGHRT ENVS ENVS Fifth Qua AGHRT AGHRT | 106 195 110 210 arter 104 107 | Total Greenhouse and Nursery Management I Practicum ⁵ Plant Biology Environmental Soil Science Total Principles of Pest Management Greenhouse and Nursery Management II | 5 2 5 5 17 5 5 |
| AGHRT AGHRT ENVS ENVS Fifth Qua AGHRT AGHRT AGHRT BUS | 106 195 110 210 arter 104 107 240 280 | Total Greenhouse and Nursery Management I Practicum ⁵ Plant Biology Environmental Soil Science Total Principles of Pest Management Greenhouse and Nursery Management II Practicum - Floral Design Projects 1 Human Relations in Business ³ | 5 2 5 5 17 5 3 5 3 5 |
| AGHRT AGHRT ENVS ENVS Fifth Qua AGHRT AGHRT AGHRT BUS Sixth Qua | 106 195 110 210 arter 104 107 240 280 arter | Total Greenhouse and Nursery Management I Practicum ⁵ Plant Biology Environmental Soil Science Total Principles of Pest Management Greenhouse and Nursery Management II Practicum - Floral Design Projects 1 Human Relations in Business ³ Total | 5 2 5 17 5 3 5 3 5 18 |
| AGHRT AGHRT ENVS ENVS Fifth Qua AGHRT AGHRT BUS Sixth Qua AGHRT | 106 195 110 210 arter 104 107 240 280 arter 108 | Total Greenhouse and Nursery Management I Practicum ⁵ Plant Biology Environmental Soil Science Total Principles of Pest Management Greenhouse and Nursery Management II Practicum - Floral Design Projects 1 Human Relations in Business ³ Total Greenhouse and Nursery Management III | 5 2 5 17 5 5 3 5 18 4 |
| AGHRT AGHRT ENVS ENVS Fifth Qua AGHRT AGHRT AGHRT AGHRT AGHRT | 106 195 110 210 arter 104 107 240 280 arter 108 230 | Total Greenhouse and Nursery Management I Practicum ⁵ Plant Biology Environmental Soil Science Total Principles of Pest Management Greenhouse and Nursery Management II Practicum - Floral Design Projects 1 Human Relations in Business ³ Total Greenhouse and Nursery Management III Plant Problem Diagnosis | 5 2 5 5 7 7 5 5 3 5 5 3 5 8 4 5 |
| AGHRT AGHRT ENVS ENVS Fifth Qua AGHRT AGHRT BUS Sixth Qua AGHRT | 106 195 110 210 arter 104 107 240 280 arter 108 | Total Greenhouse and Nursery Management I Practicum ⁵ Plant Biology Environmental Soil Science Total Principles of Pest Management Greenhouse and Nursery Management II Practicum - Floral Design Projects 1 Human Relations in Business ³ Total Greenhouse and Nursery Management III | 5 2 5 17 5 5 3 5 18 4 |

MMGT 205 Small Business Planning Total

100-104 credits are required for the AAS

- ¹ AGHRT 126 may be substituted with CIS 105 or 110.
- ² AGHRT 185 and 184 are related education requirements.
- ³ This related education requirement may be met by any course or combination of courses approved by the instructional dean.
- ⁴ APLED 121 may be substituted with ENGL& 101 and is a related education requirement.
 ⁵ Practicum may be taken any time during the second year.
- Practicum may be taken anytime during the second year.

Certificate

First Quarter

| LII SI MUG | liter | | |
|------------|--------|---|--------|
| AGHRT | 126 | Computer Essentials | |
| | | for Environmental Sciences ¹ | 2 |
| AGHRT | 184 | AgHort Occupational Preparation ² | 1 |
| AGHRT | 211 | Floral Design Techniques | 5 |
| APLED | 112 | Applied Mathematics ³ | 3 |
| APLED | 121 | Applied Written Communication ⁴ | 4 |
| | | Total | 15 |
| Second (| Quarte | er | |
| AGHRT | 105 | Horticultural Retail Sales | 3 |
| AGHRT | | House Plants | |
| AGHRT | 116 | Green Industry Business Management ³ | 5 5 |
| AGHRT | 212 | | 5 |
| | | Total | 18 |
| Third Qu | arter | | |
| AGGEN | 151 | Shop Skills | 4 |
| AGHRT | 103 | Introduction to Greenhouse | |
| | | and Nursery Production | 3 |
| AGHRT | 185 | AgHort Occupational Preparation ² | 1 |
| AGHRT | 213 | Retail Floristry | 5 |
| | | Total | 13 |
| | | | |

46 credits are required for the Certificate

- ¹ AGHRT 126 may be substituted with CIS 105 or 110.
- ² AGHRT 185 and 184 are related education requirements.
- ³ This related education requirement may be met by any course or combination of courses approved by the instructional dean.
- APLED 121 may be substituted with ENGL& 101 and is a related education requirement.

FOREIGN LANGUAGE PRE-MAJOR AA-DTA: SCC/SFCC

Knowledge of foreign languages makes possible direct contact with the literature and culture of other lands, contributing to international understanding. It is essential both from the standpoint of the traditionally recognized humanistic value and its central position in today's internationally oriented business and diplomatic world. Language offerings include: American Sign Language, Chinese, French, Japanese (SFCC only), Salish and Spanish.

AA-DTA

| Suggested Courses to Consider ¹ | 90 |
|--|-----------|
| Total | 90 |
| | ••• |

90 credits are required for the AA-DTA

¹ Consult a counselor or academic adviser for recommended courses specific to student's choice of transfer institution.

FRONT OFFICE PROFESSIONAL Certificate: SCC

The Front Office Professional program is a three–quarter program preparing students for entry–level positions. Students completing this program are prepared to greet callers, make and receive telephone calls in a professional way, format correspondence and reports, and perform a variety of duties depending on the office situations.

In order to earn a Front Office Professional certificate, a student must maintain a 2.0 GPA in all individual courses.

Certificate

First Quarter

| FIrst Qua | arter | | |
|-----------|--------|--------------------------------------|------|
| BT | 105 | Basic Grammar for Business II | 5 |
| BT | 106 | Computing Essentials | 5 |
| BT | 152 | College and Career Strategies | 3 |
| CATT | 102 | Introduction to Outlook | 2.5 |
| | | Total | 15.5 |
| Second (| Quarte | er | |
| BT | 127 | Human Relations | |
| | | and Professional Development | 3 |
| BT | 196 | - · · · · · · | 1 |
| BUS | 103 | Basic Business Math | |
| | | and Electronic Calculators | 5 |
| CATT | 190 | Introduction to PowerPoint | 2.5 |
| MMGT | 223 | Customer Service | 3 |
| | | Total | 14.5 |
| Third Qu | arter | | |
| BT | 165 | Word Processing | 5 |
| BT | 204 | 0 | 5 |
| BT | 272 | Business Correspondence ¹ | 5 |
| - | | Total | 15 |
| | | | |

45 credits are required for the Certificate

¹ May be substituted with BT 274.

GEOGRAPHY PRE-MAJOR AA-DTA: SCC/SFCC

Geography is an all-encompassing discipline that seeks to understand the world -both its physical and its cultural features through an understanding of place, location, and spatial relationships. It studies where things are and how they got there. Physical geographers may study weather and climate, water resources, the creation and evolution of landforms, or the distribution of plants, animals and soils. Cultural geographers focus on different aspects of how humans inhabit the earth. They may study the origin and spatial patterns of language groups, religions, ethnicities, agricultural practices or urban land use. Other geographers specialize in creating maps, which includes both traditional maps and computerized mapping known as Geographic Information Systems (GIS). The key skill of all geographers is the ability to geographically analyze the world around us: knowing not just where things are located, but "how" and "why."

AA-DTA

| Suggested Courses to Consider ¹ | 90 |
|--|----|
| Total | 90 |

90 credits are required for the AA-DTA

¹ Consult a counselor or academic adviser for recommended courses specific to student's choice of transfer institution.

GEOLOGY PRE-MAJOR AA-DTA, AS-T 1: SCC/SFCC

Geology is the study of the Earth, its landforms, and formative processes. Geology involves both field-based and laboratorybased research and is one of the most interdisciplinary of the sciences because it involves virtually all the scientific disciplines to understand and solve problems related to the Earth. Geologists study a wide variety of Earth features and processes from the identification of minerals and rocks to the processes of their formation. Geoscientists are also involved with mapping the Earth utilizing a wide range of field and laboratory-based methods including remote sensing via satellites. Geologists are involved in the study of hazards associated with volcanism, earthquakes, flooding, and slope stability. Geologists work closely with engineers in the development of large construction projects as well as the environmental cleanup and remediation associated with various types of waste disposal. Geologists research Earth's ancient past including the evolution of the continents and oceans, life, the atmosphere and climate change. Finally, they study, explore, and manage a wide array of water, energy, and mineral resources that are critical to modern societies.

Career and employment opportunities for geologists are quite varied. A four-year or graduate-level degree in geology can lead to careers in science education at the K-12 and collegiate levels as well as research in a variety of subdisciplines such as volcanology, marine geology, paleontology, seismology, tectonics, mineralogy, hydrology, soils, engineering geology, and geologic hazards. Earth science careers within industry include natural resource exploration and development (minerals and energy), and numerous options in the field of environmental assessment and remediation. Public agency positions for geoscientists range from local to city and county, to the state and federal levels. Students with geology degrees can go on to work in the fields of Parks and Outdoor Recreation as park rangers, guides, and interpretive professionals.

AA-DTA

| Suggested Courses to Consider ¹ | 90 |
|--|----|
| Total | 90 |

90 credits are required for the AA-DTA

AS-T 1

| Suggested Courses to Consider ¹ | 90 |
|--|----|
| Total | 90 |

90 credits are required for the AS-T 1

¹ Consult a counselor or academic adviser for recommended courses specific to student's choice of transfer institution.

GERONTOLOGY PARAPROFESSIONAL AAS, Certificate: SFCC

Spokane Falls Community College offers a program designed to provide specific training to individuals who wish to establish a career in meeting the needs of a rapidly expanding older population. The Gerontology program examines mental, emotional, physical and social changes, which confront older adults. Gerontology is distinct from geriatrics, a medical specialty that explores health and disease in elders. Some of the current career fields may include program management, administration, recreation services, residential care, business and education fields and human service programs related to life after sixty.

An AAS degree and a certificate option are available. The associate in applied science degree prepares students for employment. The one–year certificate program is an option for

those who have another degree and wish to increase their gerontology skills. Education in gerontology may be used as a support base for many helping professions. This area of study is also a resource for launching second and third careers.

| AAS | | | |
|----------------------|---------------------|--|--------------------------|
| First Qua AS | r ter 131 | Survey of Addictions | 5 |
| HS PSYC& | 102 100 | Introduction to Human Services General Psychology | 5 5 |
| | | Approved Elective or any AS, HS, HSGER, HSSOC Total | 3 18 |
| Second Q | uarte | r | |
| HS HSGER HSGER | 105 101 250 | Child Abuse Introduction to Social Gerontology Death, Loss and Grief Total | 5 5 5 15 |
| Third Qua | arter | | |
| ENGL& | 101 | English Composition I Multi-Cultural Perspectives or Aging Elective Social Policy or Treatment Theories Elective Total | 5 5 5 15 |
| Fourth Qu | uarter | | |
| BUS HS | 123 281 | Practical Business Math Applications ¹ Practicum I | 5 5 |
| HSGER | 110 | Leisure, Learning, and Living Total | 5 15 |
| Fifth Qua | rter | | |
| HS HSGER | 282 210 | Practicum II Aging and Mental Health Approved Elective or any | 5 5 |
| | | AS, HS, HSGER, HSSOC Total | 5 15 |
| Sixth Qua | rter | | |
| HS | 283 | Practicum III Approved Elective or any | 5 |
| | | AS, HS, HSGER, HSSOC Total | 10 15 |

93 credits are required for the AAS

| Approve | d Elec | tive or any AS, HS, HSGER, HSSOC | |
|-----------|---------|--|-----|
| BUS | 100 | Money Management | 3 |
| CAPPS | 102 | Introduction to Office | 1 |
| CMST | 121 | Job Communication Skills | 2-5 |
| EDUC | 270 | Introduction to Developmental Disabilities | 5 |
| FMT | 112 | Special Considerations in Exercise | 3 |
| FMT | 209 | Exercise and the Cardiovascular System | 3 |
| GENST | 154 | Introduction to Service Learning | 2-5 |
| HLTH | 101 | Health and Wellness | 3 |
| HLTH | 174 | First Aid | 3 |
| HS | 136 | Improving Interpersonal Communication | 5 |
| PSYC | 210 | Conception through | |
| | | Adolescent Developmental Psychology | 5 |
| Multi–Cu | Itural | Perspectives or Aging Elective | |
| HSGER | 115 | Multi-Cultural Perspectives | |
| | | in Human Services | 5 |
| HSGER | 201 | Aging and Personality | 5 |
| Social Po | olicy o | or Treatment Theories Elective | |
| HS | 115 | Social Policy | 5 |
| 1 0 | | | |

¹ Or other MATH course as approved by program adviser.

Certificate

| Certifica | le | | |
|-----------|-----|---------------------------------------|----|
| BUS | 122 | Practical Business Math ¹ | 3 |
| ENGL& | 101 | English Composition I | 5 |
| HS | 136 | Improving Interpersonal Communication | 5 |
| HS | 281 | Practicum I | 5 |
| HS | 282 | Practicum II | 5 |
| HSGER | 101 | Introduction to Social Gerontology | 5 |
| HSGER | 110 | Leisure, Learning, and Living | 5 |
| HSGER | 115 | Multi-Cultural Perspectives | |
| | | in Human Services | 5 |
| HSGER | 201 | Aging and Personality | 5 |
| HSGER | 250 | Death, Loss and Grief | 5 |
| | | Total | 48 |
| | | | |

48 credits are required for the Certificate

Or any MATH course as approved by program adviser.

GRAPHIC DESIGN AAS, AAS-T: SFCC

The two-year Graphic Design program is an intensive course of study that prepares students for entry-level jobs in design studios, advertising agencies, corporate in-house design departments and other businesses creating design, advertising and promotional content. Standards match job requirements that range from technical production abilities to high-level creative conceptualizing. The program curriculum incorporates industry design problems and projects to demonstrate student learning. Courses in design process and technology interact to deliver the skills necessary to successfully complete specific design projects. The design skills students master are applied to projects in multiple media including print, online, video, animation, motion graphics, and social media platforms.

Guided by a local advisory committee of professional designers, the program is constantly updated with the goal of placing students in entry–level design jobs. Throughout the program, there is ample opportunity for students to interact with professionals via field trips, guest lecturers, adjunct faculty and the Internet. At the end of the second year, students create professional portfolios of their work and complete internships at industry work sites.

The Graphic Design program has a very competitive application process. For more information and to review the application process, visit the program website at: http://graphicdesign.spokanefalls.edu/dZine/apply.html.

AAS **First Quarter** GRDSN 101 Design Process I 4 GRDSN 102 Design Technology I 3 GRDSN Drawing for Graphic Designers 3 105 2 GRDSN 156 Illustrator I 2 PhotoShop I GRDSN 158 GRDSN 181 Web Development I 4 Total 18 Second Quarter GRDSN 111 **Design Process II** 4 GRDSN Design Technology II 3 112 GRDSN Typography and Layout 3 151 2 2 GRDSN 163 InDesign I GRDSN 172 Dreamweaver 5 Computation Requirement¹ Total 19 **Third Quarter** GRDSN 109 History of Design 5 GRDSN 121 **Design Process III** 4 GRDSN 122 Design Technology III 3

| GRDSN | 125 | Computer Drawing Communications Requirement ¹ Total | 3 5 20 |
|----------------|-------------|--|---------------------|
| Fourth Q | uarter | | |
| GRDSN | 182 | Web Development II ³ | 3 |
| GRDSN | 201 | | 4 |
| GRDSN | 202 | Design Technology IV | 3 |
| GRDSN | 235 | Multimedia I | 3 |
| | | Area of Emphasis ² | 0-5 |
| | | Total 13 | –18 |
| | | | |
| Fifth Qua | | | |
| GRDSN GRDSN | 211 212 | Design Process V Design Technology V | 4 3 |
| GRDSN | | Multimedia II | 3 |
| UNDON | 200 | Area of Emphasis ² | 0-5 |
| | | Human Relations/Leadership Requirement ¹ | |
| | | | -20 |
| | | | |
| Sixth Qua | arter | | |
| GRDSN | 221 | Design Process VI | 4 |
| GRDSN | 223 | Design Portfolio | 3 |
| GRDSN | | Multimedia III | 3 |
| GRDSN | 266 | Cooperative Education Seminar | 1 |
| GRDSN | 267 | Cooperative Education Work Experience | 3 |
| | | Area of Emphasis ² | 0-5 |
| | | Total 14 | -19 |
| 99-114 cr | edits | are required for the AAS | |
| Area of E | mpha | sis: Art | |
| ART | 105 | | 5 |
| ART | 106 | 3-D Design | 4 |
| ART | 130 | Sculpture | 4 |
| ART | 189 | 5 | 4 |
| ART | 191 | 5 | 4 |
| ART | 192 | Printmaking, Intaglio | 4 |
| GRDSN | 129 | 3 | 2 |
| GRDSN | 200 | Graphic Design Workshop | 2 |
| Area of E | mpha | sis: Business | |
| GRDSN | 200 | | 2 |
| MMGT | 125 | | 5 |
| MMGT | 126 | Search Engine Marketing | 5 |
| MMGT | 218 | | 5 |
| | | de la complete | |
| GRDSN | mpna 168 | sis: Journalism InDesign II | 2 |
| GRDSN | 176 | Introduction to Page Design | 2 2 |
| GRDSN | 200 | Graphic Design Workshop | 2 |
| JOURN | 101 | College Newspaper Production I | 3-5 |
| JOURN | 220 | Introduction to News Writing | 5 |
| JOURN | 225 | Multimedia Journalism | 5 |
| PHOTO | 131 | Introduction to Photojournalism | 3 |
| | | | |
| | | sis: Multimedia/Video | ~ |
| GRDSN | 171 | Flash | 2 |
| GRDSN | 173 | Flash II | 2 |
| GRDSN GRDSN | 175 200 | After Effects Graphic Design Workshop | 2 2 |
| GRDSN | 200 | Multimedia II | 2 |
| PHOTO | 126 | Digital Photography | 5 |
| PHOTO | 200 | Photography Media | 4 |
| РНОТО | 237 | Introduction to Documentary DV Production | |
| | | - | |
| | | sis: Photography | ~ |
| GRDSN | 200 | Graphic Design Workshop | 2 |
| PHOTO | 112 120 | Photographic Design | 4 |
| PHOTO PHOTO | 120 | Photographic Arts Digital Photography | 3 5 |
| PHOTO | 120 | Introduction to Photojournalism | 3 |
| | | | 0 |

| PHOTO | 200 | Photography Media | 4 |
|--|--|--|---------------------------|
| | | asis: Web Design/Development | |
| GRDSN GRDSN | 167 171 | Fireworks Flash | 2 2 |
| GRDSN | 172 | Dreamweaver | 2 |
| GRDSN | 173 | | |
| GRDSN | 174 | | 2 2 3 |
| GRDSN GRDSN | 182 200 | Web Development II Graphic Design Workshop | 3 2 |
| | | | 2 |
| COMMUN CMST& | 101 | Introduction to Communication | 5 |
| CMST | 226 | Gender Communication | 5 |
| CMST | 227 | Intercultural Communication | 5 |
| ENGL& | 101 | English Composition I | 5 5 |
| JOURN JOURN | 220 225 | Introduction to News Writing Multimedia Journalism | ว 5 |
| | | | - |
| BUS | 104 | Requirement Business Mathematics | 5 |
| BUS | 123 | | 5 |
| MATH | 087 | Algebra for Math Literacy I | 5 |
| MATH | 088 | Algebra for Math Literacy II | 5 |
| MATH MATH& | 090 107 | Pre-Algebra Math in Society | 5 5 |
| | - | | C |
| | 210 | ons/Leadership Requirement | Б |
| CMST& CMST | 210 | Interpersonal Communication Gender Communication | 5 5 |
| CMST | 227 | Intercultural Communication | 5 |
| HS | 136 | Improving Interpersonal Communication | 5 |
| HUM MMGT | 107 101 | Introduction to Cultural Studies Principles of Management | 5 5 |
| SOC& | 101 | Intro to Sociology | 5 |
| SOC | 221 | Race and Ethnic Relations | 5 |
| SOC | 230 | Sociology of Gender | 5 |
| of relat Human more th anothe adviser ² Studen to deve to com vary by Only or Studen transcr ³ GRDSI | ed ins Relat nan on r instit prior ts are lop a plete t r emph ne AAS ts des ipted o N 182 | st choose 5 credits in each of the following are truction: Communications, Computation and ions/Leadership. A class cannot be used to ful e area. Students intending on transferring to ution should consult with a faculty academic to selecting these courses. required to meet with a Graphic Design Instruc learning plan and determine an area of empha he Graphic Design AAS Degree. Credits may nasis. At least $9 - 15$ credits are recommended. S Degree in Graphic Design will be awarded. iring additional emphasis areas can receive no certificates of completion. Web Development II may be substituted with Print Production. | lfill tor sis I. |
| a working both work allows stu graphic d Students Design. S and admi agreemen Graphic I | partn ds in e udents esign may e tuden ssion nt. Stu Design | ngton University and Spokane Falls have creat ership giving graphic design students the best education and career choices. This partnership to begin at SFCC, earn an AAS–T degree in and then transfer with junior standing to EWU. earn a Bachelor of Arts in Visual Communication ts must meet all University application deadline requirements in order to participate in this dents must have been awarded the AAS–T in the degree before they can qualify for the EWU is in VCD degree. | of |
| First Qua GRDSN | arter 101 | Design Process I | 4 |
| GRDSN | 102 | Design Technology I | |
| GRDSN | 105 | Drawing for Graphic Designers | 3 3 2 |
| GRDSN | 156 | Illustrator I | 2 |

| GRDSN GRDSN | 158 181 | PhotoShop I Web Development I Total | 2 4 18 |
|--|--|---|------------------------------------|
| Second Q GRDSN GRDSN GRDSN GRDSN GRDSN MATH& | uarte 111 112 151 163 172 107 | r Design Process II Design Technology II Typography and Layout InDesign I Dreamweaver Math in Society Total | 4 3 2 2 5 19 |
| Third Qua ART& GRDSN GRDSN GRDSN GRDSN | arter 100 109 121 122 125 | Art Appreciation History of Design Design Process III Design Technology III Computer Drawing Total | 5 5 4 3 3 20 |
| Fourth Qu ENGL& GRDSN GRDSN GRDSN GRDSN | 101 182 201 202 235 | English Composition I Web Development II Design Process IV Design Technology IV Multimedia I Total | 5 3 4 3 3 18 |
| Fifth Quar ART ENGL& GRDSN GRDSN GRDSN | rter 105 102 211 212 236 | Color and Design Composition II Design Process V Design Technology V Multimedia II Total | 5 5 4 3 20 |
| Sixth Qua GRDSN GRDSN PHIL& SOC& | 221 223 101 101 | Design Process VI Design Portfolio Intro to Philosophy Intro to Sociology Total | 4 3 5 5 17 |

112 credits are required for the AAS-T

GREENHOUSE-NURSERY AAS, Certificate: SCC

The Greenhouse Nursery program provides a study of ornamental plant materials, plant propagation, greenhouse construction and nursery and greenhouse management methods.

At the completion of the second year, the student may receive the associate in applied science degree.

The following is a typical student schedule, individual student schedules may differ slightly depending on course availability. Courses may be offered only in the quarter indicated. Outlined curriculum assumes students begin the program fall quarter and continue winter and spring quarters, with summer quarter off. It is recommended that students work closely with the program adviser or when planning classes.

AAS

| First Quart | er | | |
|-------------|-----|------------------------------------|---|
| AGGEN 1 | 151 | Shop Skills | 4 |
| AGHRT 1 | 103 | Introduction to Greenhouse | |
| | | and Nursery Production | 3 |
| AGHRT 1 | 110 | Fall Landscape Plant Materials | 5 |
| AGHRT 1 | 116 | Green Industry Business Management | 5 |
| | | | |

| AGHRT | 184 | AgHort Occupational Preparation ¹ Total | 1-3 18–20 |
|---|---|---|---|
| Second C AGHRT AGHRT AGHRT APLED ENVS | Quarte 104 111 126 121 110 | Principles of Pest Management ² | 5 5 4 5 21 |
| Third Qua AGHRT AGHRT AGHRT AGHRT ENVS | arter 105 109 112 185 210 | Horticultural Retail Sales Introduction to Vegetable Gardening Spring Landscape Plant Materials AgHort Occupational Preparation ¹ Environmental Soil Science Total | 3 2 5 1-3 5 16–18 |
| Fourth Q AGHRT AGHRT AGHRT AGHRT | uarte 106 115 204 211 | r Greenhouse and Nursery Management I Pruning Landscape Design 1 Floral Design Techniques Total | 5 2 4 5 16 |
| Fifth Qua AGHRT AGHRT AGHRT BUS | 107 202 219 280 | Greenhouse and Nursery Management II Principles of Irrigation Soil Management and Fertility ² Human Relations in Business ² Total | 5 4 5 5 19 |
| Sixth Qua AGHRT AGHRT AGHRT AGHRT MMGT | arter 108 195 230 232 205 | Greenhouse and Nursery Management II Practicum ⁵ Plant Problem Diagnosis Pest Management Project Small Business Planning Total | l 4 2 5 2 5 18 |

108-112 credits are required for the AAS

- ¹ AGHRT 185 and 184 are related education requirements.
- ² Related education requirement.
- ³ AGHRT 126 may be substituted with CIS 105 or 110.
- ⁴ APLED 121 may be substituted with ENGL& 101. APLED 121 is a related education requirement.
- ⁵ Practicum may be taken at any time during the second year.

Certificate

| First Qua | irter | | |
|-----------|--------|--|----|
| AGGEN | 151 | Shop Skills | 4 |
| AGHRT | 103 | Introduction to Greenhouse | |
| | | and Nursery Production | 3 |
| AGHRT | 110 | Fall Landscape Plant Materials | 5 |
| AGHRT | 116 | Green Industry Business Management | 5 |
| AGHRT | 184 | AgHort Occupational Preparation ¹ | 1 |
| | | Total | 18 |
| | | | |
| Second C | Quarte |)r | |
| AGHRT | 104 | Principles of Pest Management ² | 5 |
| AGHRT | 111 | House Plants | 5 |
| AGHRT | 126 | Computer Essentials | |
| | | for Environmental Sciences ³ | 2 |
| APLED | 121 | Applied Written Communication ⁴ | 4 |
| ENVS | 110 | Plant Biology | 5 |
| | | Total | 21 |
| | | | |
| Third Qu | arter | | |
| | | | |

AGHRT 105 Horticultural Retail Sales 3

| AGHRT | 109 | Introduction to Vegetable Gardening | 2 |
|-------|-----|--|----|
| AGHRT | 112 | Spring Landscape Plant Materials | 5 |
| AGHRT | 185 | AgHort Occupational Preparation ¹ | 1 |
| ENVS | 210 | Environmental Soil Science | 5 |
| | | Total | 16 |

55 credits are required for the Certificate

- AGHRT 185 and 184 are related education requirements.
- Related education requirement. 3
- AGHRT 126 may be substituted with CIS 105 or 110.
- APLED 121 may be substituted with ENGL& 101. APLED 121 is a related education requirement.

HEALTH INFORMATION MANAGEMENT AAS: SCC

This AAS degree program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (www.cahiim.org) and prepares students for employment in maintaining and processing health information in hospitals, nursing facilities, ambulatory care clinics and health insurance agencies. Training in a realistic work environment include managing computer databases, coding and abstracting clinical data, quality control management of information, health-related legal principles and policies, and knowledge of the Health Insurance Portability and Accountability Act (HIPAA) and HITECH Act regulations. Upon completion of the program, students are eligible to take the Registered Health Information Technician (RHIT) certification exam offered by (AHIMA).

Each required course for graduation in the first year of the curriculum must be completed with a 2.5 grade or better before proceeding to the second year of the curriculum. A 2.5 grade is required for all HIM prefix courses and a 2.0 grade or better must be maintained in all other courses required for a degree. All HIM courses must be completed within five years.

Prerequisite/Admission Requirements:

- High School diploma or GED certificate
- Appropriate scores in one of the following: ASSET or COMPASS
- Keyboarding 30 WPM or BT 106

Students desiring a course of study leading to an associate in arts degree should consult the college catalog for the specific degree requirements. The AA degree is recommended for students who may consider continuing their education in health information management or administration.

AAS ret Ouartar

HIM

135

| First Qua | arter | | |
|-----------|--------|---|----|
| BIOL | 105 | General Biology w/Lab ¹ | 5 |
| HED | 125 | Medical Terminology | 5 |
| HIM | 103 | HIM Theory and Practice | 5 |
| | | Total | 15 |
| Second | Quarte | er | |
| BIOL | 204 | Human A & P 1 ² | 5 |
| BUS | 103 | Basic Business Math | |
| | | and Electronic Calculators ³ | 5 |
| HIM | 160 | Computer Application in HIM | 5 |
| SURG | 105 | Blood-borne Pathogens and HIV/AIDS ⁴ | 1 |
| | | Total | 16 |
| Third Qu | arter | | |
| BIOL | 205 | Human A & P 2 ⁵ | 5 |
| BT | 272 | Business Correspondence ⁶ | 5 |

| HIM | 162 | Electronic Health Records Total | 3 17 |
|----------|--------|------------------------------------|---------|
| Fourth | Quarte | r | |
| HED | 129 | Pathophysiology | 5 |
| HIM | 105 | Legal Concepts in Health | 3 |
| HIM | 167 | Current Issues in HIM | 4 |
| HIM | 203 | Clinical Practice | 1 |
| HIM | 212 | Acute Care Coding | 5 |
| | | Total | 18 |
| Fifth Qu | Jarter | | |
| HED | 145 | Pharmacology | 3 |
| HIM | 209 | Health Data Analysis and Display | 3 |
| HIM | 211 | | 4 |
| HIM | 214 | Ambulatory Care Coding | 5 |
| HIM | 215 | ICD-10 Procedural Coding | 4 |
| | | Total | 19 |
| Sixth Q | uarter | | |
| HIM | 213 | Clinical Practice | 6 |
| HIM | 216 | Reimbursement Strategies | - |
| | | for HIM Professionals | 5 |
| HIM | 218 | Advanced Medical Coding | 5 |
| HIM | 240 | 8 | 2 |
| | | Total | 18 |

103 credits are required for the AAS

- BIOL 105 may be substituted with BIOL& 160. This course does not count towards the Associate of Arts degree science requirement and does not satisfy requirements of any allied health program.
- BIOL 204 may be substituted with BIOL& 241. This course does not count towards the Associate of Arts degree science requirement and does not satisfy requirements of any allied health program.
- BUS 103 may be substituted with BT 128.
- This related education requirement may be met by any course
- or combination of courses approved by the instructional dean. BIOL 205 may be substituted with BIOL& 242. This course does not count towards the Associate of Arts degree science requirement and does not satisfy requirements of any allied health program.
- BT 272 may be substituted with ENGL& 235. Both BT 272 and ENGL& 235 contain course prerequisite requirements.

HEALTH, PHYSICAL EDUCATION AND RECREATION **PRE-MAJOR** AA-DTA: SCC/SFCC

The Physical Education department offers a wide variety of activity and professional courses which will allow two major program options:

- A pre-professional program in Health. Physical Education and Recreation which is aimed at meeting the needs of those students wishing to transfer to four-year institutions to complete requirements for bachelor degrees in physical education and recreation.
- Provide credit, non-credit and community service programs for all students wishing to secure instruction, formal practice and expertise in a variety of recreational, physical education and leisure time activities.

AA-DTA

4

| Suggested Courses to Consider ¹ | 90 |
|--|----|
| Total | 90 |

90 credits are required for the AA-DTA

Consult a counselor or academic adviser for recommended courses specific to student's choice of transfer institution.

Comparative Health Records

HEALTH/FITNESS TECHNICIAN AAS: SFCC

The Health/Fitness Technician program is a two-year career technical curriculum offered at Spokane Falls Community College. This program is designed for students looking toward a career in the health/fitness industry. Students who complete the two-year program and receive an associate in applied science degree (AAS) are prepared for entry level positions. Students interested in transferring to a four-year institution can utilize an articulation agreement with Eastern Washington University. This agreement allows students the option of transferring directly into the Exercise Science program at EWU.

Certification for fitness professionals, with its emphasis on safety, reliability and high standards, is required in most fitness facilities. The HFT program prepares students for several of the top rated accredited personal training certifications.

The HFT program provides instruction in professional areas such as exercise physiology, anatomical Kinesiology, sports nutrition, biomechanics, personal training, health screening, and exercise prescription. Related courses include stress management, first aid/ CPR and special considerations in exercise.

AAS

BUS&

| First Qua | rtor | | |
|----------------------|-------------------|---|-------------------------------|
| ENGL& FMT HLTH | 101 204 174 | English Composition I Health Appraisal and Exercise Prescription First Aid HFT Suggested Electives Total | 5 5 3 3 16 |
| Second C | Quarte | er | |
| BIOL& | 160 | General Biology w/Lab | 5 |
| CMST& FMT | 101 106 | Introduction to Communication Anatomical and Physiological Kinesiology Total | 5 5 15 |
| Third Qu | arter | | |
| BIOL& | 241 | Human A & P 1 | 5 |
| FMT | 111 | Physiology of Exercise | 5 |
| FMT | 115 | Leadership Dynamics | 3 |
| | | HFT Suggested Electives Total | 3 16 |
| | | lotal | 10 |
| Fourth Q | uartei | | |
| BIOL& | 242 | Human A & P 2 | 5 |
| FMT | 209 | Exercise and the Cardiovascular System | 3 |
| FMT | 235 | Biomechanics | 5 |
| PE | 187 | Cross Training Total | 2 15 |
| | | Total | 15 |
| Fifth Qua | rter | | |
| FMT | 119 | Principles of Strength Training | 5 |
| HLTH | 104 | Stress Management | 3 |
| HLTH | 270 | Nutrition for Fitness | 3 |
| MATH& | 107 | Math in Society | 5 |
| | | Total | 16 |
| Sixth Qua | arter | | |
| FMT | 112 | Special Considerations in Exercise | 3 |
| FMT | 225 | Personal Training | 5 |
| PE | 266 | Cooperative Education Seminar | 1 |
| PE | 267 | Cooperative Education Work Experience | 3 |
| | | Total | 12 |
| 90 credit | s are | required for the AAS | |
| HFT Sug | geste | d Electives | |
| ANTH& | 100 | Survey of Anthropology | 5 |
| | | | |

| CMST | 227 | Intercultural Communication | 5 |
|-------|-----|--------------------------------------|---|
| FMT | 219 | Injury Prevention and Rehabilitation | 5 |
| HIST& | 116 | Western Civilization I | 5 |
| HLTH | 101 | Health and Wellness | 3 |
| PE | 177 | Beginning Body Conditioning | 1 |
| PE | 186 | Fast Fitness, Beginning | 1 |
| PE | 239 | Weight Training | 1 |
| PE | 277 | Advanced Body Conditioning | 1 |
| PE | 286 | Fast Fitness, Advanced | 1 |
| PE | 287 | Cross Training | 2 |
| PSYC& | 100 | General Psychology | 5 |
| SOC& | 101 | Intro to Sociology | 5 |

¹ Students planning to transfer to a four year institution should meet with their adviser to review the catalog and/or transfer manual of the school to which they plan to transfer before selecting courses.

HEARING INSTRUMENT SPECIALIST AAS: SFCC

Spokane Falls Community College offers a two-year program to prepare hearing instrument specialists for immediate employment in hearing health care establishments. The program includes study in physiology and anatomy, social science and technical hearing instrument courses. The Hearing Instrument Specialist program is primarily an online low residency program, meaning students complete coursework online with occasional meetings on-campus to verify skills and competencies.

Hearing instrument specialists find a variety of professional experiences available to them, including independent contracted employment, professional consulting, establishment ownership and technical support of related professions. After successful completion of the program, all educational requirements of the state (Washington State Department of Health) will have been satisfied, pursuant to state licensing as a duly authorized "Hearing Instrument Fitter/Dispenser."

Non–Local Students: Students who reside in Spokane have weekly on–campus labs. Students who live outside of the Spokane area work with mentors who are licensed hearing instrument dispensers. These mentors assist the students in weekly lab activities. Close communication between the mentor, student and faculty is important in order for a student to succeed in this challenging program.

Admission Requirements:

Total

| • | resider Ability Studer make Compl | nt with to attent nt mus daily c letion | students please refer to the tuition of "non- n waiver" section of web catalog. end six on campus three-day sessions. st have secured a mentoring site if unable to commute to college. of HIS enrollment packet found at mefalls.edu/his | |
|------|---|---|---|----|
| AA | s | | | |
| Fire | st Quar | rter | | |
| | GL& | 101 | English Composition I ¹ | 5 |
| HIS | | 101 | a 1 | 4 |
| HIS | ; | 104 | 5 | 4 |
| HIS | ; | 106 | Healthcare and Business Ethics | 4 |
| | | | Total | 17 |
| Sec | ond Q | uarte | r | |
| HIS | 5 | 123 | Basic Audiometrics | 5 |
| HIS | 5 | 125 | Auditory Disorders | 4 |
| HIS | ; | 127 | Hearing Healthcare Management I | 4 |
| | | | Computation Related | |
| | | | Instruction Requirement ¹ | 5 |

101 Intro to Business

5

| Third Qua | arter | | |
|----------------------|------------|--|--------|
| HIS | 134 | Advanced Audiometrics | 5 |
| HIS | 136 | Hearing Instrument Technologies | 4 |
| HIS | 138 | Ear Couplers and Assistive Technologies Human Relations/Leadership | 5 |
| | | Related Instruction ¹ | 5 |
| | | Total | 19 |
| | | | |
| Fourth Q | | | 4 |
| HIS HIS | 201 206 | Hearing Healthcare Management II Hearing Instrument Specialist Laboratory I | 4 |
| HIS | 250 | Perspectives on Disabilities | 4 |
| | | Total | 12 |
| Fifth Qua | | | _ |
| HIS | 210 | Clinical Methods I | 5 |
| HIS HIS | 213 215 | Marketing/Sales Hearing Instrument Specialist Laboratory II | 4 5 |
| 1110 | 215 | Total | 14 |
| | | | |
| Sixth Qua | | | |
| HIS | 205 | Introduction to Speech- | - |
| HIS | 222 | Language Pathology and Audiology Clinical Methods II | 5 6 |
| HIS | 266 | Cooperative Education Seminar | 1 |
| HIS | 267 | Cooperative Education Work Experience | 5 |
| | | Total | 17 |
| 97 credits | s are i | required for the AAS | |
| Compute | tion 5 | Related Instruction Requirement | |
| BUS | 103 | • | |
| | | and Electronic Calculators | 5 |
| BUS | 123 | | 5 |
| MATH | 100 | | 5 |
| MATH& | 107 | Math in Society | 5 |
| Human R | elatio | ns/Leadership Related Instruction | |
| BUS | 280 | - | 5 |
| HS | 136 | Improving Interpersonal Communication | 5 |
| ¹ Must sk | | | |
| iviust cr | | 5 credits in each of the following areas of rela ommunications, Computation and Human | ted |
| Relation | ns/Lea | adership. A class cannot be used to fulfill more | е |
| | | a. Students intending on transferring to anothe | |

HEATING, VENTILATION, AIR CONDITIONING AND REFRIGERATION AAS: SCC

to selecting these courses.

Completion of the two–year Heating, Ventilation, Air Conditioning and Refrigeration (HVAC/R) program at Spokane Community College prepares the student for an entry–level position in one of the most challenging occupations available.

institution should consult with a faculty academic adviser prior

Entry–level HVAC/R technicians typically work on residential and light commercial systems performing equipment installations, preventative maintenance, and service and repair functions. Opportunities also are available in systems design and sales.

Areas of study include basic HVAC/R systems, electricity, heating, local gas and oil codes, load calculations, cooling, refrigeration, duct design, and troubleshooting. These skills are taught from lab applications coordinated with classroom theory and actual jobsite experience.

AAS

| AAS First Qua | rtor | | |
|---------------------------------------|--------------------------|--|--------------------------------|
| AIRC AIRC AIRC AIRC APLED | 103 106 107 112 | Fundamentals of Electricity in HVAC/R ³ HVAC/R Electrical Applications HVAC/R Electrical Applications Lab Applied Mathematics ¹ Total | 4 6 5 23 |
| Second C | Quarte | | |
| AIRC AIRC APLED | 108 137 121 | Fundamentals of Heating Systems Fundamentals of Heating Systems Lab Applied Written Communication ¹ Total | 6 8 4 18 |
| Third Qu | arter | | |
| AIRC AIRC AIRC | 109 110 136 | Fundamentals of Refrigeration Fundamentals of Refrigeration Lab HVAC/R Safety Total | 5 10 1 16 |
| Fourth Q | uarter | | |
| AIRC AIRC | 203 204 | Fundamentals of Air Conditioning ² Fundamentals of Air Conditioning Lab ² Total | 7 7 14 |
| Fifth Qua | rter | | |
| AIRC AIRC AIRC AIRC AIRC | 125 126 205 206 | Sheet Metal Layout and Fabrication Sheet Metal Layout and Fabrication Lab System Performance Testing System Performance Testing Lab Total | 1 3 5 10 19 |
| Sixth Qua | arter | | |
| AIRC | 207 | System Servicing and Troubleshooting of Heat Pumps | 5 |
| AIRC | 208 | System Servicing and Troubleshooting of Heat Pumps Lab | 10 |
| APLED | 125 | Employment Preparation ¹ Total | 3 18 |
| Seventh | Quart | er | |
| AIRC AIRC | 262 265 | Fundamentals of Direct Digital Control Fundamentals of Direct Digital Control Lab Total | 5 10 15 |
| 123 credits are required for the AAS | | | |

¹ This related education requirement may be met by any course or combination of courses approved by the instructional dean.

² The fourth quarter is held summer quarter.

³ This course must be taken in a student's first quarter in the program regardless of whether the student starts fall, winter, or spring.

HISTORY PRE-MAJOR AA-DTA: SCC/SFCC

History is the branch of knowledge that deals systematically with the past–recording, analyzing, coordinating and explaining past events. It develops critical awareness of how we have become what we are and sharpens our vision of what we can become.

AA-DTA

| Suggested Courses to Consider ¹ | 90 |
|--|----|
| Total | 90 |

90 credits are required for the AA-DTA

¹ Consult a counselor or academic adviser for recommended courses specific to student's choice of transfer institution.

HORTICULTURE PRE-MAJOR AA-DTA: SCC

The field of environmental horticulture pertains to floriculture, landscape design and maintenance, and greenhouse management.

AA-DTA

| Suggested Courses to Consider ¹ | 90 |
|--|----|
| Total | 90 |

90 credits are required for the AA-DTA

¹ Consult a counselor or academic adviser for recommended courses specific to student's choice of transfer institution.

HOTEL AND RESTAURANT MANAGEMENT AAS, Certificate: SCC

The Hotel and Restaurant Management program is a two-year course of study designed to develop qualified students in the organization and operation of hotels, motels and restaurants. Emphasis is placed on all aspects of food and beverage services including the operation of large and small restaurants and commercial/industrial food service programs; the management of such lodging facilities as all suite properties, hotels, resorts, private clubs, and bed and breakfast operations; and the study of travel and tourism and its impact on the hotel/restaurant industry.

The training provided by the Hotel and Restaurant Management program prepares students for entry into the fastest growing industry in the United States today. Individuals seeking a secure future in an exciting field should consider enrolling in the hotel and restaurant management program. A Restaurant Management option is available for students seeking career opportunities specifically in the restaurant field.

Three resort option certificates are offered for students seeking career opportunities in the resort field. The Resort Food & Beverage certificate will prepare a student for a career in the food and beverage industry; students learn about all different levels of service and types of food and beverage operations that are within hotels and resorts. Students will study the national sanitation standards, how to maintain food and beverage costs, as well as, develop menu planning skills.

The Resort Lodging certificate will prepare students in all aspects that are involved with the rooms division of a hotel and resort, front desk systems and housekeeping operations. The student will learn customer services and marketing techniques that are also associated with hotels and resorts.

The Resort Management certificate program will educate students on entry–level management positions and skills needed in hotels and resorts. The student will learn about the systems, and management techniques needed to be successful managers in the hospitality industry. Successful managers in the industry require interpersonal skills and the ability to understand all aspects of the working relationships between multiple– departments within full–service hotels and resorts.

Students must complete all courses with a 2.0 grade or better before advancing to subsequent quarters.

AAS – Hotel and Restaurant Management First Quarter

| CIS | 105 | Computer Fundamentals for Vocations I | 3 |
|-----|-----|---------------------------------------|----|
| HM | 110 | Introduction to Hospitality | 5 |
| HM | | Hospitality Mathematics ¹ | 3 |
| HM | 115 | Food Sanitation ² | 3 |
| | | Total | 14 |

Second Quarter 5 272 Business Correspondence ³ BT HM 126 Food Science 5 HM 160 Supervisory Housekeeping 3 Customer Service 3 MMGT 223 Total 16 **Third Quarter** Job Preparation Techniques 3 BT 160 International Marketing BUS 140 3 2 5 EMS 120 Basic First Aid in the Workplace Human Relations ⁴ HM 130 HM Maintenance and Engineering 4 141 Total 17 Fourth Quarter College Accounting I 5 ACCT 151 Tourism and the Hospitality Industry 3 ΗM 220 Hospitality Cost Controls 5 HM 265 Cooperative Education Work Experience HM 288 (No Seminar) 3 Total 16 **Fifth Quarter** 5 Intercultural Communication CMST 227 HM 205 Hotel/Restaurant Law 5 Hotel/Restaurant Management Principles ⁵ 5 HM 232 Total 15 Sixth Quarter HM 202 Front Office Procedures 4 2 ΗM 208 Hotel Sales and Marketing **Restaurant Management** 5 HM 251 MMGT Human Resource Management 5 231

94 credits are required for the AAS

Total

¹ HM 112 may be substituted with BUS 103.

- ² This course is required for certification by the Educational Foundation of the National Restaurant Association.
- ³ Score on the writing component of the COMPASS or ASSET test of 80% or better or a 2.0 grade or better in BT 105.
- ⁴ HM 130 may be substituted with BUS 280.
- ⁵ HM 232 may be substituted with MMGT 101.

AAS – Restaurant Management Option

| rst Qua | rter | | |
|----------|--|---|---|
| S | 105 | Computer Fundamentals for Vocations I | 3 |
| M | 110 | Introduction to Hospitality | 5 |
| M | 112 | | 3 |
| M | 115 | Food Sanitation ² | 3 |
| | | Total | 14 |
| econd Q | uarte | r | |
| Г | 272 | Business Correspondence ³ | 5 |
| M | 126 | Food Science | 5 |
| MGT | 223 | Customer Service | 3 |
| | | Total | 13 |
| nird Qua | arter | | |
| Г | 160 | Job Preparation Techniques | 3 |
| JS | 140 | International Marketing | 3 |
| ИS | - | | 2 |
| M | 130 | | 5 |
| M | 141 | | 4 |
| | | Total | 17 |
| ourth Qu | uarter | | |
| ССТ | 151 | College Accounting I | 5 |
| M | 220 | Tourism and the Hospitality Industry | 3 |
| Μ | 265 | Hospitality Cost Controls | 5 |
| | S M M M M M M M M M M M M M M M M M M M | M 110 M 112 M 115 Accord Quarter 272 M 126 MGT 223 hird Quarter 160 JS 140 MS 120 M 130 M 141 Durth Quarter 151 M 120 | S 105 Computer Fundamentals for Vocations I M 110 Introduction to Hospitality M 112 Hospitality Mathematics 1 M 115 Food Sanitation ² Total Food Science M 126 Food Science M 126 Food Science MGT 223 Customer Service Total Morr 126 Food Science MGT 223 Customer Service Total Mird Quarter F 160 Job Preparation Techniques JS 140 International Marketing MS 120 Basic First Aid in the Workplace M 130 Human Relations ⁴ M 141 Maintenance and Engineering Total Morth Quarter CCT 151 College Accounting I M 220 Tourism and the Hospitality Industry |

| НМ | 288 | Cooperative Education Work Experience (No Seminar) Total | 3 16 | |
|---|---|---|-------------------------------|--|
| Fifth Qua CMST HM HM HM | 227 205 | Hotel/Restaurant Law Hotel/Restaurant Management Principles ⁵ | 5 5 3 18 | |
| Sixth Qu HM HM MMGT | arter 208 251 231 | Restaurant Management | 2 5 5 12 | |
| 90 credit | s are | required for the AAS | | |
| ² This co Founda ³ Score of test of ⁴ HM 130 | ourse i ation c on writ 80% c 0 may | be substituted with BUS 103. s required for certification by the Educational f the National Restaurant Association. ting component of the COMPASS or ASSET or better or a 2.0 grade or better in BT 105. be substituted with BUS 280. be substituted with MMGT 101. | | |
| Resort F | ood a | nd Beverage Certificate | | |
| First Qua BT HM HM | 152 | College and Career Strategies Introduction to Hospitality Human Relations ¹ Total | 5 5 5 15 | |
| Second (| | | - | |
| BT HM | | Business Correspondence ² Food Sanitation ³ | 5 3 | |
| НМ | 126 | Food Science Total | 5 13 | |
| Third Qu CMST HM HM MMGT | arter 227 112 251 223 | | 5 3 5 3 16 | |
| Fourth Q | uarte | r | | |
| BUS EMS | 140 120 | International Marketing Basic First Aid in the Workplace | 3 2 | |
| HM | 255 | Menu Planning | 3 | |
| HM | 265 | Hospitality Cost Controls Total | 5 13 | |
| 57 credits are required for the Certificate | | | | |
| ¹ HM 130 may be substituted with BUS 280. ² Score on writing component of the COMPASS or ASSET test of 80% or better or 2.0 grade or better in BT 105. ³ This course is required for certification by the Educational Foundation of the National Restaurant Association. ⁴ HM 112 may be substituted with BUS 103. | | | | |

Resort Lodging Certificate

First Quarter

| BT | 152 | College and Career Strategies | 5 | |
|----------------|-----|--------------------------------------|----|--|
| HM | 110 | Introduction to Hospitality | 5 | |
| HM | 112 | Hospitality Mathematics ¹ | 3 | |
| | | Total | 13 | |
| Second Quarter | | | | |

| BT 272 I | Business Correspondence ² |
|----------|--------------------------------------|
|----------|--------------------------------------|

| HM HM | 130 160 | Human Relations ³ Supervisory Housekeeping Total | 5 3 13 |
|----------|------------|--|---------------------|
| Third Qu | arter | | |
| BUS | 140 | International Marketing | 3 |
| HM | 141 | Maintenance and Engineering | 4 |
| HM | 202 | Front Office Procedures | 4 |
| MMGT | 223 | Customer Service | 3 |
| | | Total | 14 |
| Fourth G | uarte | r | |
| CMST | 227 | Intercultural Communication | 5 |
| HM | 208 | Hotel Sales and Marketing | 2 |
| HM | 265 | Hospitality Cost Controls | 5 |
| | | Total | 12 |

52 credits are required for the Certificate

HM 112 may be substituted with BUS 103.

2 Score on the writing component of the COMPASS or ASSET

test of 80% or better or 2.0 grade or better in BT 105.

3 HM 130 may be substituted with BUS 280.

Resort Management Certificate First Quarter

152 College and Career Strategies 5 BT 110 Introduction to Hospitality 5 ΗM 112 Hospitality Mathematics 3 HM HM 220 Tourism and the Hospitality Industry 3 Total 16 Second Quarter ACCT 151 College Accounting I 5 272 Business Correspondence² 5 BT Human Relations³ HM 130 5 Total 15 **Third Quarter** Microsoft Excel I CATT 138 2.5 CMST 227 Intercultural Communication 5 205 Hotel/Restaurant Law 5 HM MMGT 223 **Customer Service** 3 Total 15.5

Fourth Quarter

5

| EMS | 120 | Basic First Aid in the Workplace | 2 |
|------|-----|---|----|
| HM | 232 | Hotel/Restaurant Management Principles ⁴ | 5 |
| MMGT | 231 | Human Resource Management | 5 |
| | | Total | 12 |

58.5 credits are required for the Certificate

¹ HM 112 may be substituted with BUS 103.

2 Score on writing component of the COMPASS or ASSET test of 80% or better or 2.0 grade or better in BT 105.

HM 130 may be substituted with BUS 280.

HM 232 may be substituted with MMGT 101.

HYDRAULIC AND PNEUMATIC AUTOMATION TECHNICIAN AAS, Certificate: SCC

Graduates from the Hydraulic and Pneumatic Automation Technology program have developed skills to qualify for employment in hydraulic and pneumatic sales, automated equipment fabrication or plant machinery maintenance work.

Activities in sales and distribution vary from warehousing, inside sales, purchasing, outside sales, power unit fabrication to field service work. Each area offers challenging work, with most employers providing on-the-job training for product

familiarization and developing the special skills required for sales and service in pneumatic automation products.

Activities include equipment or circuit design, shop assembly, installation of complex electro-hydraulic systems, field installation of new equipment or servicing existing equipment. Field service can involve world travel with a lot of time away from home.

Activities in industrial plant maintenance vary from installing new equipment to troubleshooting and repairing existing equipment. This requires developing analytical procedures and certain mechanical abilities or skills to improve equipment performance and reliability.

A 2.0 GPA or better must be maintained in all hydraulic and pneumatic automation technology coursework before advancing to the subsequent quarter. Students not meeting this minimum requirement may repeat the course(s) one time before progressing. A student who is below the minimum 2.0 GPA may seek a one-time waiver with the approval of the division dean.

| AAS First Qua APLED FLPT FLPT FLPT | 113 121 122 123 | Introduction to Computers for Technology Pneumatic Theory Drawing Fundamentals Machine Controls Total | 4 6 3 7 20 |
|--|---|--|---|
| Second C AGGEN FLPT FLPT FLPT FLPT | Quarte 152 111 112 113 114 | r Arc Welding Hydraulic Calculations Hydraulic Basics and Theory Blueprint Reading Basic Hydraulics Lab Total | 4 5 4 2 20 |
| Third Qua APLED FLPT FLPT FLPT FLPT FLPT | arter 121 131 132 133 134 135 | Applied Written Communication ¹ Hydraulic Systems Fluid Line Fabrication Fluid Line Connectors Shop Drawing Fluid Line Sizing Calculations Total | 4 2 5 2 2 21 |
| Fourth Q | uarter | | |
| APLED FLPT FLPT FLPT FLPT FLPT FLPT | 123 230 231 232 233 234 243 | Leadership Skills for Business and Industry Advanced Pneumatics Theory Advanced Pneumatics Lab Mechanical Drive Systems Theory Mechanical Drive Systems Lab Velocity and Load Calculations Advanced Machine Controls Total | 3 3 3 3 1 5 20 |
| Fifth Qua APLED FLPT FLPT FLPT FLPT FLPT | 125 251 252 253 254 279 | Employment Preparation ¹ Hydraulic Circuits Hydraulic Component Repair Fluid Line Layout and Assembly Advanced Hydraulics Lab Proportional Valves Total | 3 6 2 3 4 22 |

Sixth Quarter Fluid Power Computer Applications² FLPT 264 Hydraulic Circuit Design FLPT 265 FLPT 268 Fluid Power Application and Sales² FLPT 269 Hydraulic Manifold Design² Total

120 credits are required for the AAS

- This related education requirement may be met by any course or combination of courses approved by the instructional dean.
- Sixth guarter courses may be substituted with the following courses with department permission: FLPT 266 (1 credit) and FLPT 267 (1-16 credits) or FLPT 288 (1-17 credits).

| Certificat First Qua APLED FLPT FLPT FLPT | | Pneumatic Theory Drawing Fundamentals | 4 6 3 7 20 |
|--|---------------------------------|--|-------------------------------|
| Second C | Quarte | er | |
| AGGEN FLPT FLPT FLPT FLPT | 152 111 112 113 114 | Hydraulic Basics and Theory Blueprint Reading | 4 5 4 2 20 |
| Third Qu | arter | | |
| APLED | 121 | Applied Written Communication ¹ | 4 |
| FLPT | 131 | , , , , , , , , , , , , , , , , , , , | 6 |
| FLPT FLPT | 132 133 | | 2 |
| FLPT | 134 | | 2 5 2 2 |
| FLPT | 135 | Fluid Line Sizing Calculations Total | 2 21 |
| Fourth Q | uarter | | |
| | | Applied Education Elective Total | 3 3 |

64 credits are required for the Certificate

Applied Education Elective

| APLED | 123 | Leadership Skills for Business and Industry | 3 |
|-------|-----|---|---|
| APLED | 125 | Employment Preparation | 3 |

This related education requirement may be met by any course or combination of courses approved by the instructional dean.

INFORMATION TECHNOLOGY AAS: SFCC

The Information Technology AAS degree program is designed to provide students with capabilities in several areas of information technology:

- Computer and network installation and maintenance skills.
- Business computing skills including daily systems operations and applications programs.
- Security and forensics skills.
- Various Internet and network skills including web pages design, client/server side programming, web server installation and maintenance.
- Transfer option to a four-year institution.

This degree insures that the student is knowledgeable in a broad spectrum of information technology subjects that are often needed by the IT industry.

AAS

4

3

5

5

| First Quarter | | | | |
|---------------|-----|--------------------------|---|---|
| BT | 100 | Beginning Keyboarding | 1 | |
| ENGL& | 101 | English Composition I | 5 | 5 |
| IS | 101 | Planning For Information | | |
| | | Technology Students | 1 | |

| IS IS | 103 105 | Information Technology Fundamentals Applications for IT I Total | 5 3 15 |
|-----------|------------|--|---------------------|
| Second (| Quarte | er | |
| IS | 107 | Applications for IT II | 3 |
| IS | 132 | Computer Ethics & Law | 5 |
| IS | 140 | Computer and Network Support | 5 |
| IS | 144 | Programming Fundamentals Total | 3 16 |
| Third Qu | arter | | |
| CS | 121 | UNIX/Linux | 3 |
| ENGL& | 235 | Technical Writing | 5 |
| IS | 162 | | 3 |
| IS | 210 | Internet Programming I | 5 |
| | | Total | 16 |
| Fourth Q | uarte | r | |
| CS | 223 | Programming for IT | 5 |
| IS | 260 | Database Theory | 5 |
| IS | 262 | Network Management | 5 |
| | | Total | 15 |
| Fifth Qua | arter | | |
| IS | 234 | Computer Forensics I | 5 |
| IS | 244 | Network Security I | 5 |
| MATH | 098 | Algebra III | 5 |
| | | Total | 15 |
| Sixth Qu | arter | | |
| IS | 228 | Internet Servers | 5 |
| IS | 245 | Network Security II | 5 |
| IS | 266 | Cooperative Education Seminar | 1 |
| IS | 267 | Cooperative Education Work Experience | 2 |
| PHYS | 100 | Introductory Physics | 5 |
| | | Total | 18 |
| | | | |

95 credits are required for the AAS

INTEGRATED BUSINESS AND ENTREPRENEURSHIP PROGRAM Certificate: SCC

The IBE program offers a hands-on approach to training our future business leaders and entrepreneurs. Students from all areas of study will participate in a two quarter business experience where they will create a business from the ground up. College instructors and local business and community leaders guide students through the process of starting and launching a business. Students will master academic material by producing deliverables in an authentic business environment created on the SCC campus.

Students entering the program need a minimum cumulative GPA of 2.0 or permission of the department chair. Students may not currently be on academic probation. An application to the program needs to be completed followed by an interview by the IBE instructors. Completion of a small business planning class is highly recommended before entering the program.

Certificate

| First Qua | rter | | |
|-----------|------|---|----|
| IBE | 201 | Integrated Business | |
| | | and Entrepreneurship Principles I | 10 |
| IBE | 202 | Integrated Business | |
| | | and Entrepreneurship Principles II ¹ | 5 |
| | | Total | 15 |
| | | | |

| Second Quarter | | | | |
|---|-----|-------------------------------------|----|--|
| IBE | 203 | Integrated Business | | |
| | | and Entrepreneurship Principles III | 10 | |
| | | Total | 10 | |
| 25 credits are required for the Certificate | | | | |

¹ IBE 202 may be repeated twice for a total of 10 credits.

INTERIOR DESIGN

AAS, Interior Design Professional Diploma: SFCC

The Interior Design program at Spokane Falls Community College offers a broad–based and professionally relevant curriculum designed to enable graduates to successfully compete for jobs and to function as interior designers. Students who enter the program have various alternatives. They may complete an associate in applied science degree (AAS) in six quarters with an emphasis in residential design. These students could obtain employment in residential–oriented retail establishments such as wallcovering and furniture stores.

Students also may receive a Professional Interior Design Diploma in addition to the AAS degree by completing an optional one-year program. These students will have their AAS prior to beginning the additional year. The third year will qualify students for entry-level positions as professional interior designers and will emphasize commercial design, business, communications and advanced design specialty courses. These students will have a broad range of employment opportunities with architectural firms, commercial design firms, as well as a variety of retail design establishments. Students completing the additional year are required to prepare a portfolio and complete an industry internship that will ease the transition from school to work. In order to be certified into the third year program, students must participate in a formal design review process upon completion of their second year.

AAS Eirot Ouerter

| First Qua | rter | | |
|---|----------------------------------|---|-------------------------------|
| ENGL& INTDS INTDS INTDS | 101 105 170 173 | English Composition I Design Drawing ¹ Introduction to Interior Design Drafting for Interior Design Total | 5 4 5 4 18 |
| Second Q | uarte | r | |
| INTDS INTDS INTDS MATH& | 106 184 280 107 | Sketching Techniques Drawing Communication Textiles for Interiors Math in Society Total | 4 4 5 5 18 |
| Third Qua | arter | | |
| CMST& INTDS INTDS INTDS | 101 107 175 187 | Introduction to Communication Rendering Techniques Materials of Interior Design Design Fundamentals Studio Total | 5 4 5 4 18 |
| Fourth Qu | uarter | | |
| INTDS INTDS INTDS | 171 179 186 | Interior Design Studio I History of Interiors I Lighting Design Total | 6 5 3 14 |
| Fifth Qua INTDS INTDS INTDS INTDS | rter 172 180 185 285 | Interior Design Studio II History of Interiors II Building Systems for Interior Design Computer Aided Design I Total | 6 5 3 4 18 |
| | | | |

| Sixth Quarter | | | | |
|---------------|-----|----------------------------|----|--|
| INTDS | 176 | Interior Design Studio III | 6 | |
| INTDS | 275 | Professional Practices | 3 | |
| INTDS | 286 | Computer Aided Design II | 4 | |
| PSYC& | 100 | General Psychology | 5 | |
| | | Total | 18 | |

104 credits are required for the AAS

May be substituted with ART 101.

Interior Design Professional Diploma

Note: Students must complete the AAS degree in interior design and complete the review processes to enroll in commercial design specialty courses and earn a professional diploma.

First Quarter

| GRDSN | 158 | PhotoShop I | 2 |
|-------|-----|---------------------------|----|
| GRDSN | 163 | InDesign I | 2 |
| INTDS | 281 | Interior Design Studio IV | 6 |
| INTDS | 286 | Computer Aided Design II | 4 |
| SOC& | 101 | Intro to Sociology | 5 |
| | | Total | 19 |

Second Quarter

| INTDS | 275 | Professional Practices | 3 |
|----------|-------|------------------------------------|----|
| INTDS | 282 | Interior Design Studio V | 6 |
| INTDS | 287 | Digital Interior Design Technology | 4 |
| INTDS | 289 | Computer Aided Design III | 4 |
| | | Total | 17 |
| Third Qu | arter | | |
| ENVS& | 101 | Intro to Env Science | 5 |
| INTDS | 266 | Cooperative Education Seminar | 1 |

| | 101 | | 5 |
|-------|-----|---------------------------------------|----|
| INTDS | 266 | Cooperative Education Seminar | 1 |
| INTDS | 267 | Cooperative Education Work Experience | 3 |
| INTDS | 268 | Design Portfolio | 3 |
| | | Total | 12 |

48 credits are required for the Interior Design **Professional Diploma**

INTERNATIONAL STUDIES PRE-MAJOR AA-DTA: SFCC

The International Studies pre-major provides students with an opportunity for an international focus for their program of study. This pre-major may be completed in two years in conjunction with the associate in arts (AA) degree. An effort has been made to see that students earning this pre-major and graduating with an AA degree will be able to transfer to Eastern Washington University and Gonzaga University and be accepted into their International Affairs programs at junior standing.

Consult a counselor or academic adviser for recommended courses specific to student's choice of transfer institution.

AA-DTA

| ANTH& | 206 | Cultural Anthropology | 5 |
|-------|-----|---|----|
| ECON& | 202 | Macro Economics | 5 |
| GEOG | 101 | Introduction to Geography | 5 |
| POLS | 125 | Introduction to Global Issues | 5 |
| POLS& | 203 | International Relations | 5 |
| | | Foreign Language ¹ | 15 |
| | | Humanities ² | 15 |
| | | Remaining AA Degree Requirements ³ | 35 |
| | | Total | 90 |

90 credits are required for the AA-DTA

| Foreign I | Langu | lage | |
|-----------|-------|-----------------------------|---|
| CHIN& | 121 | Chinese I | 5 |
| CHIN& | 122 | Chinese II | 5 |
| CHIN& | 123 | Chinese III | 5 |
| FRCH& | 121 | French I | 5 |
| FRCH& | 122 | French II | 5 |
| FRCH& | 123 | French III | 5 |
| FRCH& | 221 | French IV | 5 |
| FRCH& | 222 | French V | 5 |
| FRCH& | | French VI | 5 |
| JAPN& | 121 | Japanese I | 5 |
| JAPN& | 122 | Japanese II | 5 |
| JAPN& | 123 | Japanese III | 5 |
| JAPN& | 221 | Japanese IV | 5 |
| JAPN& | 222 | Japanese V | 5 |
| JAPN& | 223 | Japanese VI | 5 |
| SPAN& | 121 | Spanish I | 5 |
| SPAN& | 122 | Spanish II | 5 |
| SPAN& | 123 | • | 5 |
| SPAN& | 221 | Spanish IV | 5 |
| SPAN& | 222 | Spanish V | 5 |
| SPAN& | 223 | Spanish VI | 5 |
| Humaniti | ies | | |
| ART& | 100 | Art Appreciation | 5 |
| ART | 108 | Ancient/Medieval Art | 5 |
| CMST | 227 | Intercultural Communication | 5 |
| ENGL | 271 | World Literature to 1650 | 5 |

Select three classes in one foreign language: Chinese, French, Japanese, or Spanish. This is a minimum requirement; students should complete at least two years of a foreign language and achieve fluency in speaking and writing before finishing a four-year degree.

101 Intro to Philosophy

- Select 15 credit hours of classes from three disciplines in this humanities list.
- Completion of the requirements as listed will satisfy the humanities, social science and elective categories of the AA degree. Remaining AA degree requirements in communication, intermediate algebra and quantitative/ symbolic reasoning, math/science, and health related/PE/ recreational/leisure activities courses must also be completed. A total of 90 quarter credits in courses numbered 100 or above are required.

INTERPRETER TRAINING PROGRAM AAS-T. Certificate: SFCC

PHIL&

The AAS-T is an associate degree providing comprehensive core interpreter training program content based on the CEIC accreditation standards. The critical content coursework in the AAS-T addresses all of the Educational Interpreter Education competencies required by the Washington State Board of Education for certified education endorsement in Deaf Education P-12 from OSPI. The balance of the degree is made up of significant general education coursework credits necessary for transfer.

The Interpreter Training Program is an innovative program that offers the opportunity to acquire basic skills to launch into a new career in the sign language interpreting field skill in American Sign Language or to use sign language as a foreign language credit. Program courses are offered on campus and online.

Those who are skilled interpreters, in addition to having a trade or profession, provide a valuable service to society, making it possible to provide equal access for deaf and hard-of-hearing people to all area of employment, social services and education.

AAS-T

In addition to the degree prerequisites, the program faculty highly recommend taking any of the following courses: CMST& 210, ECED 190, ECED 290, EDUC& 204, GENST 114, HS 136, PSYC& 210, PE 104, PE 174. For more information regarding these Recommended Courses, see footnote number 1.

Prerequisites:

| – ASL& – ASL& – ASL& – ASL& – PSYC& | 121 122 123 | Am Sign Language III | |
|---|-------------------|--|--|
| First Qua ASL& ENGL& ITP | 221 | American Sign Language IV English Composition I Deaf Social and Cultural Issues Total | |
| Second C | | | |
| ASL& ITP | 222 104 | American Sign Language V Introduction to Audiologic Rehabilitation/Habilitation | |
| ITP ITP | 231 232 | Theories of Discourse Analysis | |
| Third Qua | arter | | |
| ASL& | 223 | American Sign Language VI | |
| ITP PSYC& | 233 200 | ······································ | |
| Fourth Q | uarter | | |
| ITP | 245 | Ethics and Principles | |
| ITP | 251 | in Educational Interpreting Interpreting I | |
| ITP | 261 | | |
| ITP | 281 | Applied Interpreting I Total | |
| Fifth Qua | rter | | |
| ITP | | Interpreting II | |
| ITP | | Transliteration II | |
| ITP MATH& | | Applied Interpreting II Math in Society | |
| MATTIC | 107 | Total | |
| Sixth Qua | arter | | |
| ITP | 253 | Interpreting III | |
| ITP | 263 | | |
| ITP | 283 | Applied Interpreting III Total | |
| 90 credits are required for the AAS-T | | | |
| Recomme | | I Courses | |
| GENST | | Thriving In College ¹ | |
| HLTH | 101 | Health and Wellness ¹ | |

HLTH101Health and WellnessHLTH104Stress Management 1HS136Improving Interpersonal Communication

¹ These courses are necessary to address the Educational Interpreter Education competencies required by the Washington State Board of Education for certified education endorsement in Deaf Education P–12.

Certificate

Students applying for a certificate of completion must currently hold an AA, AAS, BA or BS, have completed ASL& 121, 122, 123 and PSYC& 100, and complete a specified 85 credit sequence of courses in the human services interpreter training program.

Prerequisites:

| Prerequis – ASL& – ASL& – ASL& – ENGL& – MATH& – PSYC& | 121 122 123 101 107 | Am Sign Language I Am Sign Language II Am Sign Language III English Composition I Math in Society General Psychology | | |
|--|---|---|--------------------------|--|
| | | Prerequisite: AA, AAS, BA or BS Degree Total | 0 0 | |
| First Qua ASL& ITP PSYC& | rter 221 241 200 | American Sign Language IV Deaf Social and Cultural Issues Lifespan Psychology Total | 5 5 5 15 | |
| Second C |)uarte | r | | |
| ASL& | 222 | American Sign Language V | 5 | |
| ITP | 104 | Introduction to Audiologic | - | |
| | | Rehabilitation/Habilitation | 4 | |
| ITP | 231 | Theories of Discourse Analysis | 3 | |
| ITP | 232 | ASL Linguistic Principles | 2 | |
| | | Total | 14 | |
| Third Qua | artor | | | |
| ASL& | 223 | American Sign Language VI | 5 | |
| ITP | 233 | Manually Coded English Systems | 5 | |
| PSYC | 210 | Conception through Adolescent | 0 | |
| 1010 | 210 | Developmental Psychology ¹ | 5 | |
| | | Total | 15 | |
| | | | | |
| Fourth Q | | | | |
| ITP | 245 | Ethics and Principles | _ | |
| ITO | 054 | in Educational Interpreting | 5 | |
| ITP | 251 | Interpreting I | 5 | |
| ITP ITP | 261 281 | Transliteration I Applied Interpreting I | 5 1 | |
| IIF | 201 | Total | 16 | |
| | | | | |
| Fifth Qua | rter | | | |
| ITP | 252 | Interpreting II | 5 | |
| ITP | 262 | Transliteration II | 5 | |
| ITP | 282 | Applied Interpreting II | 2 | |
| | | Total | 12 | |
| Sixth Qua | | | _ | |
| ITP | 253 | Interpreting III | 5 | |
| ITP | 263 | Transliteration III | 5 | |
| ITP | 283 | Applied Interpreting III Total | 3 13 | |
| | | ισιαι | 15 | |
| 85 credits | 85 credits are required for the Certificate | | | |
| | | · · · · · · · · · · · · · · · · · · · | | |
| | | | | |

¹ May take ECED 290 if PSYC 210 was taken in previous degree.

INVASIVE CARDIOVASCULAR TECHNOLOGY AAS: SCC

The invasive cardiovascular technologist is a health care professional who, through the use of specific high-technology equipment and at the direction of a qualified physician, performs procedures on patients leading to the diagnosis and treatment of congenital and acquired heart disease, and peripheral vascular disease.

As a member of the cardiac catheterization team, the cardiovascular technologist is a surgical scrub assistant, monitors the patient's condition and operates other "CATH Lab." equipment.

The most important "CATH Lab" studies are coronary angiography, percutaneous coronary intervention (where stents, balloons, plaque removal devices, and other treatments to restore blood flow are deployed), right heart catheterization (where blood flow measurements are made), electrophysiology (where irregular heartbeats are created, studied and treated) and pacemaker implantations.

The invasive cardiovascular technologist also works with physicians during critical times during heart attacks by restoring blood flow to diseased areas of the heart. They assist with percutaneous revascularization, give clot-dissolving drugs, and operate cardiac assist pumps.

The first year of the Invasive Cardiovascular program teaches basic sciences and cardiology and is combined with the Noninvasive Cardiovascular program. In the second year, the Invasive students concentrate on the technical duties of a cardiac catheterization technologist and spend time working in local hospital cardiac laboratories.

Upon completion of the didactic training (six quarters), the student selects an out-of-town medical center where he/she will complete the final guarter of clinical internship. Students may take the CCI National Registry Exam upon graduation. The program is the only CAAHEP approved invasive technology program in the northwestern United States. The Cardiovascular Technology Programs (Invasive and Noninvasive) are accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Joint Review Committee for Cardiovascular Technology (www.jrccvt.org) JRC-CVT, 6 Pine Knoll Dr., Beverly, MA 01915-1425

- High school diploma or GED certificate required
- Appropriate scores in ASSET or COMPASS required
- Computer skills recommended
- Active e-mail account recommended
- A 2.0 grade must be maintained quarterly in each course before proceeding to the next quarter.
- Students may repeat an invasive cardiovascular course once, but it must be repeated within two years.

AAS

Prerequisites:

- BIOL& 160 BIOL& 241 General Biology w/Lab
- Human A & P 1
- BIOL& 242 Human A & P 2
- CMST& 210 Interpersonal Communication
- English Composition I - ENGL& 101
- MATH 099 Intermediate Algebra
- PHYS 100 Introductory Physics

First Quarter

| FILSE QUA | | | |
|------------------|--------|---|-----|
| HED | 109 | Human Physiology and Disease | 5 |
| ICT | 114 | Introduction to Cardiac Care | 3 |
| ICT | 115 | Technical Skills - | Ũ |
| | 110 | | |
| | | CPR for Health Care Providers | 1 |
| ICT | 116 | Acute Coronary Syndrome | 1 |
| ICT | 117 | Cardiovascular Pharm 1 | 1 |
| ICT | 213 | Electrophysiology | 4 |
| | 213 | | - |
| | | Total | 15 |
| | | | |
| Second C | luarte | r | |
| ICT | 124 | CV Diagnostic Exams | 4 |
| ICT | 125 | Hemodynamics | 2 |
| ICT | 126 | Technical Skills/Reading Hemodynamics | 1 |
| | | | - |
| ICT | 127 | Cardiovascular Pharm 2/Intravenous Therapy | / 1 |
| ICT | 128 | Technical Skills/ | |
| | | Pharmacology/Intravenous Therapy | 1 |
| ICT | 129 | Basic Life Support Instructor Course | 2 |
| | | | |
| PHYS | 120 | Fundamentals of Medical Physics | 5 |
| | | Total | 16 |
| T 1 1 1 C | | | |
| Third Qua | | | |
| ICT | 134 | Cath Lab Procedures | 3 |
| ICT | 135 | Technical Skills Cath Lab Procedures | 1 |
| ICT | 138 | Cardiovascular Physiology | 4 |
| | | , ., | |
| ICT | 139 | Radiation Safety | 2 |
| ICT | 140 | Surgical Asepsis | 1 |
| ICT | 141 | Technical Skills/Surgical Asepsis | 1 |
| | | Total | 12 |
| | | lotal | |
| Fourth Q | uartor | | |
| ICT | 144 | | 4 |
| | | Patient Care and Assessment | 4 |
| ICT | 145 | Technical Skills/ | |
| | | Cath Lab Boot Camp/Patient Care | 4 |
| ICT | 146 | Cath Lab Clinical I | 6 |
| | | Total | 14 |
| | | lotal | |
| Fifth Qua | rtor | | |
| | | | ~ |
| ICT | 203 | Advanced Cardiac Life Support Course | 2 |
| ICT | 204 | Advanced Cardiac Life Support | |
| | | Technical Skills Lab | 1 |
| ICT | 214 | Cardiac Interventions/PCI | 3 |
| ICT | 215 | | |
| | | Interventional Radiology | 2 |
| ICT | 216 | Electrophysiology 1 Introduction to Devices | 2 |
| ICT | 217 | Technical Skills/PCI/EP/Special Equipment | 2 |
| ICT | 218 | Cath Lab Clinical II | 5 |
| ICT | 219 | Cardiopulmonary Pathophysiology | 1 |
| | 219 | | |
| | | Total | 18 |
| 0.41.0 | 4 . | | |
| Sixth Qua | | | |
| ICT | 224 | Advanced Practices/Management | 5 |
| ICT | 225 | Pediatric Cath | 1 |
| ICT | 226 | Statistics and Research | 1 |
| | | | |
| ICT | 227 | Electrophysiology 2 Interventions | 2 |
| ICT | 228 | Technical Skills/Peds/Special Procedures/EP | 2 |
| ICT | 229 | Cath Lab Clinical III | 5 |
| | - | Total | 16 |
| | | | |
| Seventh (| Quarte | er | |
| ICT | 234 | Board Registry (RCIS) Prep Blackboard | 4 |
| | | Coth Lab Oligiaal IV | |
| ICT | 235 | Cath Lab Clinical IV | 12 |
| | | Total | 16 |
| | | | |

107 credits are required for the AAS

To meet the requirements of the Invasive Cardiovascular Technology program, CMST& 210 should be taken on campus rather than as an online course.

JOURNALISM PRE-MAJOR AA-DTA: SFCC

The journalism curriculum helps students develop valuable critical thinking and writing skills while they learn up to date interviewing and computer assisted research techniques. Students also learn about the role different media play in shaping our lives and perceptions about society.

Some students decide to apply what they learned toward a career in journalism; others decide to use their coursework to lay the foundation for a career in public relations, business, advertising, marketing, graphic design or technical writing. SFCC's award winning student news publications,

Communicator and Communicator Online, allow students to gain hands on experience in writing, editing, photography, layout, marketing, advertising, web design and business management.

AA-DTA

| First Qua | rter | | |
|--|------------------------------------|--|-------------------------------|
| ENGL& JOURN JOURN | 101 101 110 | English Composition I College Newspaper Production I Mass Media Health Elective Total | 5 3 5 3 16 |
| Second C ECON& JOURN JOURN PHOTO | 201 201 102 220 101 | Micro Economics College Newspaper Production II | 5 3 5 5 18 |
| Third Qua HUM JOURN JOURN PHIL | arter 107 103 224 210 | Introduction to Cultural Studies ¹ College Newspaper Production III Advanced News Reporting Ethics Total | 5 3 5 5 18 |
| Fourth Q ENGL& JOURN JOURN PHIL& | uarter 111 201 225 120 | 2 | 5 3 5 5 18 |
| Fifth Qua BIOL HIST JOURN | 100 141 202 | Environmental Biology History of China College Newspaper Production V Total | 5 5 3 13 |
| Sixth Qua BIOL& JOURN PSYC& | arter 160 203 100 | General Biology w/Lab ³ College Newspaper Production VI General Psychology Total | 5 3 5 13 |
| 96 credits | s are i | required for the AA–DTA | |
| Health El HLTH HLTH HLTH HLTH | ective 101 104 174 | Health and Wellness Stress Management First Aid | 3 3 3 |
| | | | |

HUM 107 can be substituted with GRDSN 100.

ENGL& 111 can be substituted with HUM& 101. 3

Or other Lab Science course from the AA Degree.

LANDSCAPE MANAGEMENT AAS, Certificate: SCC

The landscape program provides a study of turf and ornamental plant materials and how they relate to landscape design, construction, installation, maintenance, bidding & estimating, irrigation and arboriculture. The curriculum is built around landscape certified competencies. At the completion of the second year, the student may receive the associate in applied sciences degree.

This program is accredited by the Professional Landcare Network (PLANET) landcarenetwork.org

The following is a typical student schedule, individual student schedules may differ slightly depending on course availability. Courses may only be offered in the guarter indicated. Outlined curriculum assumes students begin the program fall quarter and continue winter and spring quarters, with summer quarter off. It is recommended that students work closely with the program adviser when planning classes.

| AAS | | | |
|----------------|------------|---|---------|
| First Qua | | | |
| AGGEN AGHRT | 156 102 | Equipment Operation and Maintenance Pesticides and Fertilizer | 2 |
| | 101 | Application Equipment | 2 |
| AGHRT AGHRT | 104 110 | Principles of Pest Management Fall Landscape Plant Materials | 5 5 |
| AGHRT | 184 | AgHort Occupational Preparation ¹ | 1 |
| APLED | 121 | Applied Written Communication ² | 4 |
| | | Total | 19 |
| Second | Quarte | er | |
| AGGEN | 151 | Shop Skills | 4 |
| AGHRT AGHRT | 116 126 | Green Industry Business Management ³ Computer Essentials | 5 |
| AGHRI | 120 | for Environmental Sciences ⁴ | 2 |
| AGHRT | 185 | AgHort Occupational Preparation ¹ | 1 |
| ENVS | 210 | Environmental Soil Science | 5 |
| | | Total | 17 |
| Third Qu | arter | | |
| AGHRT | 112 | Spring Landscape Plant Materials | 5 |
| AGHRT | 186 | AgHort Occupational Preparation ¹ | 1 |
| AGHRT AGHRT | 206 226 | Landscape Construction Turfgrass Management | 4 5 |
| ENVS | 110 | Plant Biology | 5 |
| | | Total | 20 |
| Fourth Q | uarte | r | |
| AGHRT | 115 | Pruning | 2 |
| AGHRT | 187 | AgHort Occupational Preparation ¹ | 1 |
| AGHRT | 204 | Landscape Design 1 | 4 |
| AGHRT AGHRT | 230 232 | Plant Problem Diagnosis Pest Management Project | 5 2 |
| AGHRT | 232 | Bidding and Estimating | 2 |
| | | Total | 17 |
| Fifth Qua | arter | | |
| AGHRT | 202 | Principles of Irrigation | 4 |
| AGHRT | 205 | Landscape Design 2 | 4 |
| AGHRT | 219 280 | Soil Management and Fertility Human Relations in Business ³ | 5 5 |
| BUS | 280 | Total | э 18 |
| Sixth Qu | arter | | |
| AGHRT | 201 | Landscape Installation | 4 |
| AGHRT | 225 | Weed Biology and Control | 5 |
| AGHRT | 228 | Arboriculture | 5 |
| MMGT | 205 | Small Business Planning | 5 |
| | | Total | 19 |

110 credits are required for the AAS

- ¹ Related education requirement. 300 hours of internship, either paid or volunteer, must have been completed before registering for this course in the fourth guarter.
- ² APLED 121 may be substituted with ENGL& 101. APLED 121 is a related education requirement.
- ³ Related education requirement.
- ⁴ AGHRT 126 may be substituted with CIS 105 or 110.

Certificate

First Quarter

| 11101 4400 | | | | |
|------------|---------------|--|----|--|
| AGGEN | 156 | Equipment Operation and Maintenance | 2 | |
| AGHRT | 102 | Pesticides and Fertilizer | | |
| | | Application Equipment | 2 | |
| AGHRT | 104 | Principles of Pest Management ¹ | 5 | |
| AGHRT | 110 | Fall Landscape Plant Materials | 5 | |
| AGHRT | 184 | AgHort Occupational Preparation ¹ | 1 | |
| APLED | 121 | Applied Written Communication ² | 4 | |
| | | Total | 19 | |
| | | | | |
| Second C | Quarte | er | | |
| AGGEN | 151 | Shop Skills | 4 | |
| AGHRT | 116 | Green Industry Business Management | 5 | |
| AGHRT | 126 | Computer Essentials | | |
| | | for Environmental Sciences ³ | 2 | |
| AGHRT | 185 | AgHort Occupational Preparation ¹ | 1 | |
| ENVS | 210 | Environmental Soil Science | 5 | |
| | | Total | 17 | |
| | | | | |
| Third Qu | Third Quarter | | | |
| AOUDT | 440 | Out the last provide the state | - | |

| | | Spring Landscape Plant Materials | 5 |
|-------|-----|--|----|
| AGHRT | 186 | AgHort Occupational Preparation ¹ | 1 |
| AGHRT | 206 | Landscape Construction | 4 |
| AGHRT | 226 | Turfgrass Management | 5 |
| ENVS | 110 | Plant Biology | 5 |
| | | Total | 20 |
| | | | |

56 credits are required for the Certificate

¹ Related education requirement.

- ² APLED 121 may be substituted with ENGL& 101. APLED 121 is a related education requirement.
- ³ AGHRT 126 may be substituted with CIS 105 or 110.

LAW PRE-MAJOR AA-DTA: SCC/SFCC

Law has been an important element of every civilization in the history of humans. It is a profession for those who have good reasoning powers, the ability to express themselves clearly and concisely, and an understanding of their fellow human beings.

Students planning to enter law school usually must complete a four–year baccalaureate degree with an emphasis from one of a number of areas, such as political science, business administration, history or communications.

AA-DTA

| Suggested Courses to Consider ¹ | 90 |
|--|----|
| Total | 90 |

90 credits are required for the AA-DTA

¹ Consult a counselor or academic adviser for recommended courses specific to student's choice of transfer institution.

LEGAL ADMINISTRATION AAS: SCC

Legal Administration is a career path in which the individual is typically employed in a supervisory role in a law office or other legal setting (court administration, etc.). The role requires management, financial, accounting, computer information systems, human resource management and legal knowledge. Experience and/or training in administration, marketing, accounting, business management, or law is preferred, but is not a mandatory prerequisite.

If interested in pursuing a four–year degree, ask a counselor or faculty adviser about transfer articulation agreements.

| AAS | | | |
|------------------------------------|---------------|---|--------------------------|
| First Qua ENGL& MATH MMGT | 101 | English Composition I Intermediate Algebra Principles of Management Total | 5 5 5 15 |
| | | | 15 |
| Second C ACCT& | Quarte 201 | | 5 |
| CMST | 287 | Business and Professional Communication | 3 |
| LA MMGT | 218 211 | Employment Law Marketing Total | 3 5 16 |
| Third Qua | arter | | |
| ACCT& | 202 | Prin of Accounting II | 5 |
| CATT MMGT | 128 231 | Desktop Publishing Human Resource Management Total | 5 5 15 |
| Fourth Q | uarter | | |
| ACCT | 162 | Business Tax Accounting | 1 |
| BUS CIS | 280 138 | | 5 2.5 |
| CIS | 139 | Small Office Home Office Computer Basics | 2.5 |
| LA | 245 | Supervised Legal Work Experience ¹ Total | 3 14 |
| Fifth Qua | | | |
| BUS LA | 217 240 | Business Statistics Special Issues Seminar | 5 5 |
| LA | 240 245 | Supervised Legal Work Experience | 4 |
| | | Approved Business Electives Total 17 | 3-5 '-19 |
| Sixth Qua | arter | | |
| CATT CATT | 138 139 | Microsoft Excel I Microsoft Excel II | 2.5 2.5 |
| LA | 230 | Insurance Law | 2.5 |
| LA | 245 | Supervised Legal Work Experience Total | 5 13 |
| 90-92 cre | dits a | re required for the AAS | |
| Approved | d Busi | iness Electives | |
| ACCT | 141 | QuickBooks ² | 5 |
| BT BUS | 280 120 | -, | 2.5 5 |
| CATT | 241 | 0 | 2.5 |
| MMGT | 181 | Leadership Training-DEC | 1-5 |

| MMGT | 182 | Leadership Training-DEC | 1-5 |
|------|-----|-------------------------|-----|
| MMGT | 183 | Leadership Training-DEC | 1-5 |
| MMGT | 191 | Leadership Training-DEC | 1-5 |
| MMGT | 192 | Leadership Training-DEC | 1-5 |
| MMGT | 193 | Leadership Training-DEC | 1-5 |
| | | | |

- ¹ A total of 3 credits of MMGT 100 (Supervised Volunteer Experience) may be used to substitute a portion of LA 245.
- ² ACCT 141 has a prerequisite of ACCT 151 or permission of instructor.
- ³ CATT 241 has a prerequisite of CIS 110 or equivalent experience is recommended.

LEGAL ADMINISTRATIVE ASSISTANT AAS, Certificate: SCC

The Legal Administrative Assistant program combines a well– balanced academic program with expert legal office instruction, giving the student the diversified training and background needed to hold a position of responsibility and importance in many areas of the legal world. This program helps raise the legal office skills of the student to a professional level, gives the student a technical background through completion of technical skill courses and an academic background, provides the student a mature understanding of professional responsibilities, and provides for minimum additional on–the–job training.

To enter the certificate program, students must pass a keyboarding test with 40 wpm. A 2.5 grade or better in each class is required for an A.A.S. degree or Certificate.

AAS

| AAS | | | |
|--|------------|--|----------|
| First Qua BT | 105 | Pagia Crommor for Business II | F |
| BT | 105 | Basic Grammar for Business II Computing Essentials ¹ | 5 5 |
| BT | 152 | College and Career Strategies | 3 |
| ы | 152 | Total | 13 |
| | | | 15 |
| Second C | Quarte | er | |
| BT | 165 | | 5 |
| BT | 272 | Business Correspondence | 5 |
| CATT | 102 | | 2.5 |
| | | Business Elective | 3-5 |
| | | Total 1 | 5.5–17.5 |
| Third Qua | arter | | |
| BT | 160 | Job Preparation Techniques | 3 |
| BT | 231 | Office Procedures | 5 |
| | | Electives - Legal Administrative Assista | |
| | | Total | 15.5 |
| | | | |
| Fourth Q | | | _ |
| BT | 273 | | 5 |
| LSEC LSEC | 236 239 | Legal Terminology Legal Formatting ³ | 5 5 |
| LSEC | 239 | Total | 5 15 |
| | | lotal | 15 |
| Fifth Qua | rter | | |
| ACCT | 151 | College Accounting I | 5 |
| LSEC | 237 | Legal Terminology | 5 |
| LSEC | 244 | Legal Machine Transcription ⁴ | 5 |
| | | Total | 15 |
| Sivth Our | | | |
| Sixth Qua ACCT | 141 | QuickBooks ⁵ | 5 |
| LA | 105 | Washington and Idaho Court Rules | 3 |
| LSEC | 233 | Legal Office Practice ⁶ | 5 |
| LSEC | 285 | Legal Office Internship | 3 |
| | | Total | 16 |
| | | | |
| 90-92 credits are required for the AAS | | | |
| Business | Elect | tive | |
| BUS | 102 | | 3 |
| BUS | 103 | Basic Business Math | |
| | | and Electronic Calculators | 5 |
| | | | |
| | | | |

Electives – Legal Administrative Assistant

| CATT | 120 | Microsoft Word I | 2.5 |
|------|-----|--------------------------------|-----|
| CATT | 121 | Microsoft Word II | 2.5 |
| CATT | 122 | Microsoft Access I | 2.5 |
| CATT | 123 | Microsoft Access II | 2.5 |
| CATT | 138 | Microsoft Excel I | 2.5 |
| CATT | 139 | Microsoft Excel II | 2.5 |
| CATT | 190 | Introduction to PowerPoint | 2.5 |
| CATT | 191 | Advanced PowerPoint | 2.5 |
| CATT | 222 | Advanced Microsoft Access I | 2.5 |
| CATT | 223 | Advanced Microsoft Access II | 2.5 |
| CATT | 238 | Advanced Microsoft Excel I | 2.5 |
| CATT | 239 | Advanced Microsoft Excel II | 2.5 |
| LA | 211 | Debtor-Creditor and Bankruptcy | 3 |
| LSEC | 216 | Legal Office Procedures | 5 |
| | | | |

- ¹ Students are placed in formatting courses according to their ability. Students who are given advanced standing in keyboarding classes will need to take business electives to meet the credits required for graduation.
- ² Electives must be taken from the following list of courses: CATT 120, 121, 122, 123, 138, 139, 190, 191, 222, 223, 238, 239, LSEC 216, or LA 211. Other unnamed courses may be substituted with approval of the program coordinator. A minimum grade of 2.5 in each class is required.
- ³ Prerequisites for legal assistant students taking these classes as part of the legal assistant program are keyboarding skills of 40 wpm, BT 109 and 165 or ENGL& 101 with a grade of 2.5 or higher or with permission of the program coordinator.
- ⁴ LSEC 239 with a grade of 2.5 or higher or permission of the instructor.
- ⁵ ACCT 151 or higher or permission of instructor.
- ⁶ LSEC 239 with a 2.5 grade or higher or permission of the instructor. Use of a personal computer is required for LSEC 233 in order to download and access legal software.
- ⁷ LA 110.
- ³ LSEC 239 with a 2.5 grade or higher or permission of the instructor. Use of a personal computer is required for LSEC 216 in order to download and access legal software.

Certificate

| First Quarter | | | | | |
|---|-------------------|--|-------------------------------|--|--|
| LSEC 2 | 272 236 239 | Business Correspondence Legal Terminology Legal Formatting ² Business Elective Total | 5 5 3-5 18–20 | | |
| Second Qu | arte | r | | | |
| LSEC 2 | 231 237 244 | | 5 5 5 15 | | |
| Third Quar | ter | | | | |
| LSEC 2 | 105 233 285 | Washington and Idaho Court Rules Legal Office Practice ⁵ Legal Office Internship Legal Administrative Assistant Elective Total | 3 5 3 5 16 | | |
| 49-51 credi | its ar | re required for the Certificate | | | |
| Business E | Business Elective | | | | |
| | | Math Skills for Business | 3 | | |
| BUS 1 | 03 | Basic Business Math and Electronic Calculators | 5 | | |
| Legal Administrative Assistant Elective | | | | | |

| Legal Administrative Assistant Elective | | | | | |
|---|-----|----------------------|-----|--|--|
| ACCT | 141 | QuickBooks | 5 | | |
| ACCT | 151 | College Accounting I | 5 | | |
| CATT | 120 | Microsoft Word I | 2.5 | | |

| CATT | 121 | Microsoft Word II | 2.5 |
|------|-----|--------------------------------|-----|
| CATT | 122 | Microsoft Access I | 2.5 |
| CATT | 123 | Microsoft Access II | 2.5 |
| CATT | 138 | Microsoft Excel I | 2.5 |
| CATT | 139 | Microsoft Excel II | 2.5 |
| CATT | 190 | Introduction to PowerPoint | 2.5 |
| CATT | 191 | Advanced PowerPoint | 2.5 |
| CATT | 222 | Advanced Microsoft Access I | 2.5 |
| CATT | 223 | Advanced Microsoft Access II | 2.5 |
| CATT | 238 | Advanced Microsoft Excel I | 2.5 |
| CATT | 239 | Advanced Microsoft Excel II | 2.5 |
| LA | 211 | Debtor-Creditor and Bankruptcy | 3 |
| LSEC | 216 | Legal Office Procedures | 5 |

¹ Must be taken during the first quarter concurrent with LSEC 239.

- ² Prerequisites for legal assistant students taking these classes as part of the legal assistant program are keyboarding skills of 40 wpm, BT 102, 109 and 165 or ENGL& 101 with a grade of 2.5 or better or with permission of the program coordinator.
- ³ This course may be substituted with any related course, a combination of courses or prior office experience approved by the program coordinator.
- ⁴ BT 235 and LSEC 239 with a grade of 2.5 or better or permission of the instructor.
- ⁵ LSEC 239 with a 2.5 grade or higher or permission of the instructor. Use of a personal computer is required for LSEC 216 in order to download and access legal software.
- ⁶ LSEC 239 with a 2.5 grade or higher or permission of the instructor. Use of a personal computer is required for LSEC 233 in order to download and access legal software.

LEGAL NURSE Certificate: SCC

The primary role of the legal nurse consultant is to evaluate, analyze, and render informed opinions on the delivery of health care and the resulting outcomes. The legal nurse consultant practices this nursing specialty in a variety of settings, including law offices, government offices, insurance companies, risk management, or as a self–employed practitioner. The nurse serves as a liaison between the legal and health care communities. This regionally respected ABA approved program is typically awarded upon completion of 62–67 credits of required course work (depending on math requirements).

Note: A legal nurse graduate does not receive a license to practice law; thus performing legal work directly for the public or giving legal advice directly to the public constitutes the unauthorized practice of law.

Program Requirements: To enter the Legal Nurse Certificate program, students must have completed an AAS degree in nursing, and possess a current state license and at least two years' nursing experience with no more than one year since last employed in the field. Substitutions for prerequisites and program courses may be made and/or waived by the program coordinator.

Certificate Requirements: The certificate requires 10 credits of general education courses and 20 credits of basic law courses, plus 8 credits of LA 245, 24 credits of legal specialty courses and 5 credits of other courses if the student does not select from the math options portion of the general education courses. Students with at least one or more years of current legal experience under the direct supervision of an attorney may, with the approval of the program coordinator, have a part of LA 245 waived and instead substitute an equal number of additional legal specialty courses credits.

Students should begin early to meet the prerequisites for LA 120 which are LSEC 239 and a college–level computer course

recommended to be selected from the BT, CIS or LSEC departments' offerings. A grade of 2.0 or higher in each class (including prerequisites) is required for this certificate.

Certificate

| Basic Courses | 20 |
|--|-------|
| General Education Courses | 5 |
| Other Courses | 0-5 |
| Social Science or Humanities Course ¹ | 5 |
| Specialty Courses | 24 |
| Supervised Legal Work Experience | 8 |
| Total | 62–67 |
| | |

62-67 credits are required for the Certificate

Basic Courses

| LA | 100 | Legal Careers Orientation | 1 | | | | |
|---------------------------|-----|---|-----|--|--|--|--|
| LA | 102 | Introduction to Legal Nursing | 1 | | | | |
| LA | 105 | Washington and Idaho Court Rules | 3 | | | | |
| LA | 110 | Legal Research and Writing ² | 5 | | | | |
| LA | 118 | Instrument Drafting | 3 | | | | |
| LA | 120 | Law Office Computing ³ | 5 | | | | |
| LA | 130 | Legal Ethics | 1-3 | | | | |
| LA | 135 | Professional Effectiveness | 1 | | | | |
| General Education Courses | | | | | | | |
| MATH& | 141 | Precalculus I ¹ | 5 | | | | |
| Other Courses | | | | | | | |

| Jther | Courses | | |
|-------|---------|-----------------------------------|---|
| BUS | 104 | Business Mathematics ⁴ | 5 |

Specialty Courses

| Specially Courses | | | | | |
|----------------------------------|-----|-----|---|------|--|
| | BUS | 204 | Introduction to Law ⁵ | 5 | |
| | LA | 218 | Employment Law | 3 | |
| | LA | 219 | Criminal Law and Procedure | 3 | |
| | LA | 220 | Torts | 3 | |
| | LA | 225 | Trial Preparation and Procedures | 3 | |
| | LA | 230 | Insurance Law | 3 | |
| | LA | | Special Issues Seminar ⁶ | 1-10 | |
| | LA | 285 | Legal Office Internship ⁷ | 3 | |
| Supervised Legal Work Experience | | | | | |
| | LA | 245 | Supervised Legal Work Experience ⁸ | 8 | |
| | | | | | |

- ¹ See program coordinator for an additional list of courses.
- ² Prerequisite is ENG& 101.
- ³ Prerequisites are LSEC 239 and a college-level computer course recommended to be selected from the BT, CIS or LSEC departments' offerings.
- ⁴ Only needed if the student chooses BUS 104 as his/her math requirement. (Not required if MATH& 141 or higher is chosen for the math requirement.)
- ⁵ Prerequisites for all Legal Specialty Courses: LA 100, 102, 110.
- ⁶ Because each course is different, LA 240 may be repeated as frequently as desired and all credits received may be applied toward the 24 specialty credit requirement for degree.
- ⁷ Maximum of 3 credits of internship may be applied toward this degree.
- ⁸ Students must complete 8 credits.

LEGAL OFFICE SOFTWARE SPECIALIST Certificate: SCC

This program prepares students for legal office positions where the primary duties are the operation of computer equipment; typing and proofreading manuscripts, tables, reports, correspondence, and other documents from dictating machines or rough drafts; correcting errors in existing documents; and consulting with persons initiating job requests. A minimum grade of 2.5 in each class is required for a Certificate.

| Certificat First Qua BT BT BT LSEC | | Computing Essentials ¹ College and Career Strategies Business Correspondence Legal Terminology Total | 5 3 5 5 18 |
|---|--|---|---|
| Second G | Quarte | Pr | |
| BT BT CATT LSEC | 165 231 102 237 | | 5 2.5 5 17.5 |
| Third Qua | arter | | |
| BT LSEC LSEC | 204 233 239 | Legal Formatting ³ Business Elective | 5 5 3-5 1 8–20 |
| Fourth Q | uarter | | |
| CATT CATT CATT LA LSEC | 128 238 239 120 285 | Desktop Publishing Advanced Microsoft Excel I Advanced Microsoft Excel II Law Office Computing Legal Office Internship Software Elective | 5 2.5 2.5 5 1-3 1-3 |
| 72 5-76 5 | cradi | ts are required for the Certificate | |
| 12.5-10.5 | creur | is are required for the Certificate | |
| Business BUS BUS | | Math Skills for Business | 3 |
| Software | Elect | ive | |
| CATT CATT CATT CATT CIS CIS | 122 123 190 191 138 139 | Microsoft Access I Microsoft Access II Introduction to PowerPoint Advanced PowerPoint Home Networking | 2.5 2.5 2.5 2.5 2.5 2.5 |
| better in | n BT 1 | inimum standard on assessment test or 2.5 04 or 105. | |
| | | th a 2.5 grade or higher or permission of the e of a personal computer is required for LS | |
| ³ Prerequisites for enrollment in this class are keyboarding skills of 40 wpm; BT 165 and BT 272 or ENGL& 101 with a grade of 2.5 or higher or permission of instructor. | | | |
| LEGAL R Certificat | | | |
| | | | |

This program prepares students for office positions in which the primary duties are performing general legal office work; greeting, scheduling and routing legal clients; and answering the telephone. After completing this program, students may choose to take additional courses for an advanced certificate or degree in the Legal Administrative Assistant program. A minimum grade of 2.5 in each class is required for a certificate.

Certificate

| BT | 106 | Computing Essentials | 5 | |
|----|-----|-------------------------------|---|--|
| BT | 152 | College and Career Strategies | 3 | |
| BT | 272 | Business Correspondence | 5 | |
| | | | | |

| LSEC | 236 | Legal Terminology Total | 5 18 |
|----------|--------|------------------------------------|----------------|
| Second | Quarte | er | |
| BT | 165 | Word Processing | 5 |
| CATT | 102 | Introduction to Outlook | 2.5 |
| LSEC | 237 | Legal Terminology | 5 |
| LSEC | 239 | Legal Formatting | 5 |
| | | Total | 17.5 |
| Third Qu | uarter | | |
| BT | 231 | Office Procedures ² | 5 |
| LSEC | 233 | Legal Office Practice ³ | 5 |
| LSEC | 285 | Legal Office Internship | 3 |
| | | Business Elective | 3-5 |
| | | Total | 16–18 |
| | | | |

51.5-53.5 credits are required for the Certificate

Business Elective

~ - ~

| BUS | 102 | Math Skills for Business | 3 |
|-----|-----|----------------------------|---|
| BUS | | Basic Business Math | 0 |
| 003 | 105 | | - |
| | | and Electronic Calculators | 5 |

Prerequisites for enrollment in this class are keyboarding speed of 40 wpm and BT 165 and 272 with a grade of 2.5 or better, or permission of the program coordinator.

² This course may be substituted with any related course, a combination of courses, or prior office experience approved by the program coordinator.

³ BT 272 and LSEC 239 with a 2.5 grade or higher or permission of instructor.

LIBRARY AND INFORMATION SERVICES AAS, Certificate: SFCC

The Library and Information Services program offers an online AAS degree and an online certificate for library support staff and paraprofessionals who wish to start their career as a library staff member or who wish to further their career development. Students are trained to work in all areas of library service. The program gives students exposure to a broad range of theory and practice common in most libraries. The program at SFCC follows the American Library Association guidelines for library support staff.

Students can enter the program in any quarter; however the recommended course sequence begins fall quarter and library science courses should be taken in sequential order to complete the program as listed in the career planning guide. **Library science classes are online classes**. Electives for the AAS degree program can be taken online or in a traditional classroom. Students engage in online learning and are required to take work experience/internship classes to reinforce hands–on training. The LMLIB 288 COOP Education Work Experience class is a critical component of the degree program as it provides hand on training to reinforce classroom instruction. This class may be taken more than once during fall, winter or spring quarter. Very few of the library science classes require students to purchase textbooks.

The three quarter online certificate program targets persons interested in working in K–12 library settings who do not wish to pursue an AAS degree. Graduates of this program may gain employment as library support staff or paraprofessionals in libraries.

The AAS Educational Paraprofessional School Library Media Technician Emphasis Degree: Students in this degree program can seek employment as paraprofessionals in the classroom or as K–12 library staff. Consult the **Education Paraprofessional**, **Special Education** career planning guide for more information.

| AAS First Qua LMLIB | rter 100 | Introduction to Library Organizations and Careers | 3 |
|--|---|---|---|
| LMLIB | 115 | Introduction to Library Organizational Systems | 5 |
| | | Communication Skills Electives ³ Total | 5 13 |
| Second Q | uarte | r | |
| LMLIB | 116 | Introduction to Circulation Systems and Services | 5 |
| LMLIB | 125 | School Libraries and Media Centers Approved Electives ¹ Computer Skills Electives ² Total | 5 3 2 15 |
| | | | |
| Third Qua | | Assess and Outreach Canvissa | F |
| LMLIB LMLIB | 117 135 | Access and Outreach Services Children's Literature and Library Services Communication Skills Electives ³ Computer Skills Electives ² Total | 5 5 2 17 |
| Fourth Qu | uarter | | |
| EDUC& | 115 | Child Development Computation Skills Electives ⁴ Computer Skills Electives ² Total | 5 5 3 13 |
| Fifth Qua | rter | | |
| LMLIB | 126 | Library Technology and Services for Educational Support | 3 |
| LMLIB | 220 | Technical Services II: Cataloging Approved Electives ¹ Leadership Skills/Human Relations Electives Total | 5 3 5 16 |
| | | | |
| Sixth Qua | rter | | |
| lmlib Lmlib | 222 224 | Reference and Information Services Research Topics and Projects in Library Service ⁵ | 5 3 |
| LMLIB | 281 | Library Paraprofessional Practicum | 3 |
| | | Approved Electives ¹ Total | 5 16 |
| 90 credits | are r | equired for the AAS | |
| | | n Skills Electives | |
| BT | | Business Communications | 5 |
| BT | 272 | | 5 |
| CMST& ENGL& | 101 101 | | 5 5 |
| ENGL& | | Composition II | 5 |
| ENGL& | 102 | | |
| | 235 | Technical Writing | 5 |
| | | Technical Writing kills Electives | 5 |
| ACCT | t ion S 141 | kills Electives QuickBooks | 5 5 |
| ACCT BUS | t ion S 141 103 | kills Electives QuickBooks Basic Business Math and Electronic Calculators | 5 5 |
| ACCT BUS BUS | ti on S 141 103 123 | kills Electives QuickBooks Basic Business Math and Electronic Calculators Practical Business Math Applications | 5 5 5 |
| ACCT BUS BUS MATH | ti on S 141 103 123 090 | kills Electives QuickBooks Basic Business Math and Electronic Calculators Practical Business Math Applications Pre-Algebra | 5 5 5 5 |
| ACCT BUS BUS | ti on S 141 103 123 | kills Electives QuickBooks Basic Business Math and Electronic Calculators Practical Business Math Applications Pre-Algebra | 5 5 5 |
| ACCT BUS BUS MATH MATH MATH& Computer | tion S 141 103 123 090 099 107 | kills Electives QuickBooks Basic Business Math and Electronic Calculators Practical Business Math Applications Pre-Algebra Intermediate Algebra Math in Society s Electives | 5 5 5 5 5 5 5 |
| ACCT BUS BUS MATH MATH MATH& Computer BT | tion S 141 103 123 090 099 107 Skill 101 | kills Electives QuickBooks Basic Business Math and Electronic Calculators Practical Business Math Applications Pre-Algebra Intermediate Algebra Math in Society s Electives Keyboarding | 5 5 5 5 5 5 5 5 5 5 5 5 5 |
| ACCT BUS BUS MATH MATH MATH& Computer BT CAPPS | tion S 141 103 123 090 099 107 Skill 101 102 | kills Electives QuickBooks Basic Business Math and Electronic Calculators Practical Business Math Applications Pre-Algebra Intermediate Algebra Math in Society s Electives Keyboarding Introduction to Office | 5 5 5 5 5 5 5 5 5 5 5 1 |
| ACCT BUS BUS MATH MATH MATH& Computer BT CAPPS CAPPS | tion S 141 103 123 090 099 107 Skill 101 102 141 | kills Electives QuickBooks Basic Business Math and Electronic Calculators Practical Business Math Applications Pre-Algebra Intermediate Algebra Math in Society s Electives Keyboarding Introduction to Office Word I | 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 |
| ACCT BUS BUS MATH MATH MATH& Computer BT CAPPS | tion S 141 103 123 090 099 107 Skill 101 102 141 151 | kills Electives QuickBooks Basic Business Math and Electronic Calculators Practical Business Math Applications Pre-Algebra Intermediate Algebra Math in Society s Electives Keyboarding Introduction to Office Word I Excel I | 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 |
| ACCT BUS BUS MATH MATH MATH& Computer BT CAPPS CAPPS CAPPS | tion S 141 103 123 090 099 107 Skill 101 102 141 151 | kills Electives QuickBooks Basic Business Math and Electronic Calculators Practical Business Math Applications Pre-Algebra Intermediate Algebra Math in Society s Electives Keyboarding Introduction to Office Word I Excel I Access I | 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 |

| CAPPS GENST IS IS MMGT | 180 108 120 160 125 | Outlook Learning for the 21st Century Business Computer Use Internet Fundamentals Social Media Marketing | 2 5 3 1 5 |
|---|---|--|--|
| Leadersh BUS CMST& HS MMGT MMGT PSYC& SOC& | iip Sk 280 210 136 101 231 100 101 | ills/Human Relations Electives Human Relations in Business Interpersonal Communication Improving Interpersonal Communication Principles of Management Human Resource Management General Psychology Intro to Sociology | 5 5 5 5 5 5 5 5 5 5 |
| Elective credits. CAPPS MMGT ² Select of Skills. ⁴ Select of Skills. ⁵ Or stud Technic targetin student ⁶ Student | es list Appro 223, S course s. two co one co line M lents r ques. log stud s not ts are | y select elective courses from an Approved in order to reach the minimum required progr by ed electives include courses in ASL, BT, ED, EDUC, ENGL& 111, HLTH 174, IS, LMLII SPAN. See department for complete list. es from Computer Skills Electives for a total of purses for a total of 10 credits in Communicat purse for a total of 5 credits in Computation SI ATH course may be substituted. may substitute BT 160 Job Preparation LMLIB 224 requires instructor permission dents currently working in libraries. BT 160 tar- currently working in libraries. required to take 3 credits of LMLIB 281 by the any other quarter with instructor permission. | B, of ion kills. gets |
| Certificat First Qua | | | |
| EDUC& | 204 | Exceptional Child ¹ | 5 |
| LMLIB | 100 | Introduction to Library Organizations and Careers | 3 |
| LMLIB | 115 | Introduction to Library Organizational Systems Total | 5 13 |
| Second C | | | |
| LMLIB LMLIB | 125 126 | School Libraries and Media Centers Library Technology and Services | 5 |
| LMLIB | 220 | for Educational Support Technical Services II: Cataloging ³ Total | 3 5 13 |
| Third Qua | arter | | |
| EDUC | 252 | Social/Emotional Development ² | 5 |
| LMLIB LMLIB | 135 224 | Children's Literature and Library Services Research Topics and Projects | 5 |
| LMLIB | 281 | in Library Service ⁴ Library Paraprofessional Practicum Total | 3 3 16 |
| 42 credits | s are | required for the Certificate | |
| ² EDUC course total of ³ LMLIB | 252 oi or cou 5 crea 220 m | may be substituted with EDUC& 202. r any library science (LMLIB) course, CAPPS urses approved by instructor, may be taken fo dits. hay be substituted with LMLIB 116. nay substitute BT 160 Job Preparation | |

Or students may substitute BT 160 Job Preparation Techniques. LMLIB 224 requires instructor permission targeting students currently working in libraries. BT 160 targets students not currently working in libraries.

LINE CONSTRUCTION (AVISTA) **Certificate: SCC**

Participants learn the skills required of a line crew helper including how to set and climb poles, install cross-arms, hardware, lines and transformers in addition to learning to use the various tools and equipment of the trade through actual field experience. Classroom training covers safety, electrical theory, transformers, switching, print reading, and the importance of attitude and teamwork necessary to succeed in today's work environment.

Certificate <u>ч о</u>.

| FIrst Qua | arter | | |
|-----------|-------|-----------------------|----|
| LINE | 101 | Line Construction I | 17 |
| LINE | 102 | Line Construction II | 16 |
| LINE | 103 | Line Construction III | 16 |
| | | Total | 49 |
| | | | |

49 credits are required for the Certificate

MACHINIST/CNC TECHNOLOGY AAS, Certificate: SCC

Machinist/CNC Technology AAS Degree: The Machinist/CNC Technology program is designed to provide students with the skills necessary to gain employment in the manufacturing industry. The first year of the program will focus on skills used in a modern machine shop: machine shop math, blueprint reading, and conventional machine tool theory and lab. The last year offers advanced conventional machining and specialized training in CNC theory with introduction to CAD/CAM and procedures in quality control.

Each required course for graduation must be completed with a grade of 2.0 or higher before proceeding to the next quarter.

Machinist/CNC Certificate: This four-quarter evening Machinist/CNC Certificate program prepares students for employment in the machining industry. Basic manual machine operation with emphasis on the safe operation of a variety of machine tools is an integral component of this program. Students receive intensive training in both theory and application of machining skills with introduction to CAD/CAM.

AAS

| First Qua | arter | | |
|-----------|-------|----------------------------------|----|
| APLED | 112 | Applied Mathematics ¹ | 5 |
| MACH | 140 | Blueprint 1 | 2 |
| MACH | 141 | Machine Theory I | 2 |
| MACH | 142 | Shop I | 10 |
| MACH | 143 | Machine Tools | 2 |
| | | Total | 21 |

Second Quarter

| CIS | 105 | Computer Fundamentals for Vocations I |
|------|-----|---------------------------------------|
| MACH | 150 | Blueprint II |
| MACH | 151 | Machine Theory II |
| MACH | 152 | Shop II |
| MACH | 153 | Shop Math |
| | | Total |
| | | |

Third Quarter

| APLED | 121 | Applied Written Communication ¹ | 4 |
|-------|-----|--|----|
| MACH | 160 | Blueprint III | 2 |
| MACH | 161 | Machine Theory III | 2 |
| MACH | 162 | Shop III | 10 |
| MACH | 163 | Materials Science | 2 |
| | | Total | 20 |

AGGEN 157 Arc Welding APLED 123 Leadership Skills for Business and Industry¹ 3 MACH 210 Blueprint IV 2 CNC Theory I 2 MACH 211 MACH 212 Shop IV 10 GD & T MACH 213 2 Total 20 **Fifth Quarter** Employment Preparation¹ 3 APLED 125 Blueprint V 2 MACH 220 MACH 221 **CNC** Theory II 2 MACH 222 Shop V 10 **Quality Control** 223 2 MACH Total 19 Sixth Quarter Blueprint VI 2 MACH 230 MACH CNC Theory III 2 231 MACH 232 Shop VI 10

Manufacturing Economics

1

2

16

Seventh Quarter

MACH

233

Fourth Quarter

| Optional Summer Machinist Course ² | 0-15 |
|---|------|
| Total | 0–15 |

114-129 credits are required for the AAS

Total

- This related education requirement may be met by any course or combination of courses approved by the department dean.
- MACH 263 for Machinist/CNC Technology AAS degree students desiring to receive additional training may be taken during the summer quarter either after the third or sixth quarter. Instructor permission required. Completion of this course will entitle the student to a certificate of completion issued by the dean of instruction for technical education.
- CIS may be substituted with APLED 113.

Certificate

| Ocrimical | C | | |
|-----------|--------|--|----|
| First Qua | rter | | |
| APLED | 112 | Applied Mathematics ¹ | 5 |
| MACH | 140 | Blueprint 1 | 2 |
| MACH | 142 | Shop I | 8 |
| MACH | 143 | Machine Tools | 2 |
| | | Total | 17 |
| Second C | Quarte | r | |
| APLED | 113 | Introduction to Computers for Technology | 2 |
| MACH | 141 | Machine Theory I | 2 |
| MACH | 150 | Blueprint II | 2 |
| MACH | 152 | Shop II | 8 |
| | | Total | 14 |
| | | | |
| Third Qua | arter | | |
| MACH | 160 | Blueprint III | 2 |
| MACH | 162 | Shop III | 8 |
| MACH | 211 | CNC Theory I | 2 |
| | | Total | 12 |
| | | | |
| Fourth Q | uarter | | |
| APLED | 125 | Employment Preparation ¹ | 3 |
| MACH | 151 | Machine Theory II | 2 |
| MACH | 212 | Shop IV | 8 |
| MACH | 221 | CNC Theory II | 2 |
| | | Total | 15 |
| | | | |

58 credits are required for the Certificate

This related education requirement may be met by any course or combination of courses approved by the department dean.

MANAGEMENT AAS, Certificate: SCC

The challenge of management! It takes a special kind of person with a special knack to be a good business manager. Over 70 percent of the workforce in Spokane is employed in the fields of business, health care and marketing. This creates a big demand for entry–level managers and supervisors.

The management program at SCC is designed to prepare students for these positions. The curriculum incorporates individual hands–on experiences while learning the basic principles of business management.

Courses in the AAS degree program include management, business law, project management, computer applications and human relations. In addition to the academic courses, there is an opportunity for team work and leadership experience through participation in College DECA, an international management and marketing organization.

All students graduating from the AAS degree program must have a minimum grade average of 2.0 on each of the required management, accounting, economic, and business courses and a cumulative minimum grade point average on all required courses in the program.

The Management Certificate at SCC is designed to provide students with business, management, and accounting basics with an emphasis on project management skills. Students are prepared to understand the concepts and methods associated with project initiation, planning, execution, monitoring and controlling, and closing phases of project management. Students will utilize computer applications to manage and control project tasks, communication, costs, scheduling, and quality. In addition, this program includes leadership and teambuilding development so vital for successful project management in the workplace. Students can expect to increase job skills for entry–level employment as well as career advancement. All students graduating from the certificate program must have a minimum grade average of 2.0 on each of the required courses in the program.

AAS

| Group A-AAS Degree-Management Core | 80 |
|---------------------------------------|------|
| Group B-AAS Degree Management Electiv | es 5 |
| Group C-AAS Degree Written | |
| Communications Elective | 5 |
| Total | 90 |

90 credits are required for the AAS

Group A-AAS Degree-Management Core

| | - | | |
|-------|-----|------------------------------------|-----|
| ACCT | 151 | College Accounting I | 5 |
| BT | 152 | College and Career Strategies | 3 |
| BUS& | 101 | Intro to Business | 5 |
| BUS | 103 | Basic Business Math | |
| | | and Electronic Calculators | 5 |
| BUS | 104 | Business Mathematics | 5 |
| BUS& | 201 | Business Law | 5 |
| BUS | 280 | Human Relations in Business | 5 |
| CATT | 138 | Microsoft Excel I | 2.5 |
| CATT | 139 | Microsoft Excel II | 2.5 |
| CATT | 241 | Microsoft Project | 2.5 |
| ECON | 100 | Fundamentals of Economics | 5 |
| ENGL& | 101 | English Composition I | 5 |
| MMGT | 100 | Supervised Volunteer Experience | 1 |
| MMGT | 101 | Principles of Management | 5 |
| MMGT | 181 | Leadership Training-DEC | 1 |
| MMGT | 211 | Marketing | 5 |
| MMGT | 231 | Human Resource Management | 5 |
| MMGT | 243 | Fundamentals of Project Management | 5 |
| | | | |

| MMGT MMGT | 244 256 | | 2.5 5 |
|--------------------------------|------------|--|----------|
| WINGT | 200 | Lean Leadership | 5 |
| | | Degree Management Electives | |
| BUS | 120 | | 5 |
| BUS | 140 | International Marketing | 3 |
| BUS | | Introduction to Law | 5 |
| BUS | 284 | | 1-5 |
| BUS | 285 | Special Business Topics | 1-5 |
| BUS | 286 | · · · | 1-5 |
| CATT | 120 | Microsoft Word I | 2.5 |
| CMST& | 101 | | 5 |
| MMGT | 125 | 5 | 5 |
| MMGT | 205 | 5 | 5 |
| MMGT | 212 | | 5 |
| MMGT | | Fundamentals of Advertising | 5 |
| MMGT | 223 | | 3 |
| MMGT | 288 | · · · · · | |
| | | (No Seminar) | 1-5 |
| Group C_ | - 4 4 5 | Degree Written Communications Elective | |
| BT | 272 | Business Correspondence | 5 |
| BT | | Business Writing for the Web | 5 |
| ENGL& | 102 | | 5 |
| ENGL& | 235 | 1 | 5 |
| 211020 | 200 | l continear tritaing | Ŭ |
| ¹ ACCT ² | 151 m | ay be substituted with ACCT& 201. | |
| | | proficiency test is required. | |
| | | ay be substituted with a higher level | |
| ECON | | | |
| ⁴ ENGL8 | . 101 r | may be substituted with a course from the | |
| Group- | C-AA | S Degree Written Communication Elective. | |
| ⁵ MMGT | 181 m | nay be substituted with MMGT 182,183,191, | |
| 192, or | | | |
| ⁶ Previou | is or c | oncurrent enrollment in MMGT 243 and CAT | Т |
| 241 is r | equire | ed. | |
| | | nay be substituted with ACCT 288. 1 credit=5 | 5 |
| | | c experience. | |
| ⁸ BT 105 | or pe | rmission of instructor. | |
| Certificat | • | | |
| First Qua | | | |
| ACCT | | College Accounting I ¹ | 5 |
| BUS& | 101 | 5 5 | 5 |
| BUS | 104 | Business Mathematics ² | 5 |
| | | Total | 15 |
| Second C | | | |
| CATT | 138 | Microsoft Excel I | 2.5 |
| CATT | 139 | Microsoft Excel II | 2.5 |
| CATT | 2/11 | Microsoft Project | 25 |

| CATI | 139 | IVIICIOSOIT EXCELII | 2.5 |
|----------|-------|------------------------------------|-----|
| CATT | 241 | Microsoft Project | 2.5 |
| MMGT | 243 | Fundamentals of Project Management | 5 |
| MMGT | 244 | Introduction to Lean Six Sigma | 2.5 |
| | | Total | 15 |
| Third Qu | arter | | |
| | | | _ |

| ENGL& | 101 | English Composition I ³ | 5 |
|-------|-----|------------------------------------|----|
| MMGT | 101 | Principles of Management | 5 |
| MMGT | 256 | Lean Leadership ⁴ | 5 |
| | | Total | 15 |

45 credits are required for the Certificate

¹ ACCT 151 may be substituted with ACCT& 201.

² BUS 103 or proficiency test is required.

³ ENGL& 101 may be substituted with a course from the Group–C–AAS Degree Written Communication Elective.

⁴ Previous or concurrent enrollment in MMGT 243 and CATT 241 is required.

MANICURIST Certificate: SCC

Students enrolling in the Manicurist Certificate program will receive training in all aspects of nail care. Areas of emphasis include the application and removal of artificial nails and nail tips; various manicure and pedicure treatments; hand and feet massage techniques; and all safety and sanitation measures involved with these processes. Upon successful completion of the coursework, the student will be prepared to take the Washington State Examination in Manicuring.

Program Requirements:

- Students must maintain a 2.1 in all professional classes to complete the program and pass exit exams with a minimum score of 2.5 to be prepared to take the Washington state licensing exam for manicurist.
- Upon successful completion of the coursework, the student will be prepared to take the Washington State licensing exam for manicurist.

Physical Requirements:

- Normal or corrected vision
- Must be able to work with arms at shoulder level for extended periods of time
- Must be able to sit for extended periods of time.

Certificate

First Quarter

| FIrst Qua | arter | | |
|-----------|--------|---|----|
| COS | 113 | Manicuring Concepts I | 4 |
| COS | 114 | Manicuring Applications I ¹ | 10 |
| COS | 119 | Advanced Manicuring Concepts | 1 |
| EMS | 120 | Basic First Aid in the Workplace | 2 |
| | | Total | 17 |
| | | | |
| Second (| Quarte | er | |
| COS | 115 | Manicuring Concepts II | 4 |
| COS | 116 | Manicuring Applications II ¹ | 10 |
| COS | 129 | Advanced Manicuring Applications | 2 |
| | | Total | 16 |
| | | | |

33 credits are required for the Certificate

¹ COS 114 and 116 may be substituted with COS 288 with the permission of the instructor. Washington State licensure requirements allow up to 10% of the student academic instruction to be met at an off campus site.

MARKETING AAS: SCC

The Marketing program is designed for students who want to specialize in fields involved with the distribution of goods and services from producer to consumer. Students take core business courses followed by marketing specialty courses such as marketing, retailing, advertising and international business. Students are also required to gain work experience as part of the program. There is opportunity for teamwork and leadership experience through participation in college DECA, international management and marketing organization.

All students graduating from this program must have a minimum grade of 2.0 on each of the management; accounting; economics; and general business required courses. Students must also have a 2.0 cumulative grade point average on all required courses in the program.

| Marketing Electives | 5 |
|---------------------|----|
| Marketing Required | 85 |
| Total | 90 |

90 credits are required for the AAS

Marketing Electives

| Marketin | g Elec | tives | | | |
|---|---|---------------------------------------|-----|--|--|
| BT | 274 | Business Writing for the Web | 5 | | |
| BUS& | 201 | Business Law | 5 | | |
| BUS | 284 | Special Business Topics | 1-5 | | |
| CATT | 241 | Microsoft Project | 2.5 | | |
| MMGT | 181 | Leadership Training-DEC | 1 | | |
| MMGT | 182 | Leadership Training-DEC | 1 | | |
| MMGT | 183 | Leadership Training-DEC | 1 | | |
| MMGT | 205 | Small Business Planning | 5 | | |
| MMGT | 288 | Cooperative Education Work Experience | | | |
| | | (No Seminar) | 1 | | |
| Marketin | g Req | uired | | | |
| ACCT | 151 | College Accounting I | 5 | | |
| BT | 152 | College and Career Strategies | 3 | | |
| BUS& | 101 | Intro to Business | 5 | | |
| BUS | 103 | Basic Business Math | | | |
| | | and Electronic Calculators | 5 | | |
| BUS | 140 | International Marketing | 3 | | |
| BUS | 280 | Human Relations in Business | 5 | | |
| CATT | 120 | Microsoft Word I | 2.5 | | |
| CATT | 138 | Microsoft Excel I | 2.5 | | |
| ECON | 100 | Fundamentals of Economics | 5 | | |
| ENGL& | 101 | English Composition I | 5 | | |
| MMGT | 100 | Supervised Volunteer Experience | 1-3 | | |
| MMGT | 101 | Principles of Management | 5 | | |
| MMGT | 125 | Social Media Marketing | 5 | | |
| MMGT | 211 | Marketing | 5 | | |
| MMGT | 212 | Retailing | 5 | | |
| MMGT | 218 | Fundamentals of Advertising | 5 | | |
| MMGT | 223 | Customer Service | 3 | | |
| MMGT | 225 | Content, Social and Digital Marketing | 5 | | |
| MMGT | 243 | Fundamentals of Project Management | 5 | | |
| MMGT | 250 | Professional Sales | 5 | | |
| ¹ ACCT | ACCT 151 may be substituted with ACCT& 201. | | | | |
| ² ECON 100 may be substituted with a higher level ECON | | | | | |

² ECON 100 may be substituted with a higher level ECON course.

- ³ MMGT 181 may be substituted with MMGT 191.
- ⁴ MMGT 182 may be substituted with MMGT 192.
- ⁵ MMGT 183 may be substituted with MMGT 193.

MATHEMATICS PRE-MAJOR AA-DTA: SCC/SFCC

Mathematics is a science basic to all other sciences and is an integral part of our everyday existence. Students pursuing a career in mathematics have many opportunities for interesting jobs depending on their abilities and interests.

Check with transfer institution for specific computer language course requirement.

AA-DTA

| Suggested Courses to Consider ¹ | 90 |
|--|----|
| Total | 90 |

90 credits are required for the AA-DTA

¹ Consult a counselor or academic adviser for recommended courses specific to student's choice of transfer institution.

MEDICAL ASSISTANT AAS, Certificate: SCC

The Medical Assistant is an Allied Health professional who assists physicians and other health care providers in their offices or other medical settings. In accordance with respective state laws, they perform a broad range of administrative and clinical duties. In the Medical Assistant program at Spokane Community College, students learn about the administrative duties of scheduling and receiving patients, preparing and maintaining medical records, performing basic secretarial skills and medical transcription, handling telephone calls, writing correspondence, serving as a liaison between the physician and other individuals, and managing practice finances. The clinical phase of the program is taught through intense training and hands-on application. Students learn to perform clinical duties, including asepsis and infection control, taking patient histories and vital signs, first aid and CPR, preparing patients for procedures, assisting the physician with examinations and treatments, collecting and processing specimens, performing selected diagnostic tests, and preparing and administering medications as directed by the physician. The Spokane Community College Medical Assistant program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Curriculum review Board of the American Association of Medical Assistants Endowment (AAMAE). Commission on Accreditation of Allied Health Education Programs 1361 Park Street, Clearwater, Florida 33756, (727) 210-2350

Admission Requirements:

- Computer Skills
- CIS 105 or equivalent
- ENGL& 101
- Appropriate scores in one of the following: ASSET or COMPASS

A 2.0 grade or better is needed in all required classes before proceeding to the next quarter and before a certificate is awarded. The student may complete requirements in Medical Assistant and receive a certificate or complete the professional requirements plus liberal arts requirements and receive an associate in applied science degree. The student may enroll in liberal arts either preceding or following the professional curriculum.

AAS

First Quarter HED 108 Human Anatomy MA Administrative Medical Assistant I 101 MA 102 Clinical Medical Assistant I MA 107 **Basic Medical Assisting** Total 16 Second Quarter

125 Medical Terminology HFD MA Administrative Medical Assistant II 111 Clinical Medical Assistant II MA 112 PHARM Mathematics for Pharmacy Technicians 115 Total 18 **Third Quarter** Human Physiology and Disease HFD 109 Medical Assistant Coding HIM 120 and Reimbursement 3-5 MA 122 Clinical Medical Assistant III: Phlebotomy and IV Therapy Ambulatory Care Setting Pharmacology MA 125 Total 18-20

Fourth Quarter

| Fourth Q | uarter | • | |
|-----------|--------|--|---------|
| MA | 131 | Practice Finances and Management | 3 |
| MA | 132 | Clinical Medical Assistant IV | 5 |
| MA | 141 | Medical Assistant Seminar | 1 |
| MA | 142 | Medical Assistant Externship | 6 |
| | | Total | 15 |
| Fifth Qua | rtor | | |
| MMGT | 101 | Dringinlag of Management ¹ | F |
| PSYC& | - | Principles of Management ¹ | 5 5 |
| SOC& | 100 | , ,, | 5 5 |
| 300a | 101 | Intro to Sociology ² Total | 5 15 |
| | | lotal | 15 |
| Sixth Qua | arter | | |
| BUS | 280 | Human Relations in Business ¹ | 5 |
| CMST | 227 | | 5 |
| ENGL& | 102 | Composition II ¹ | 5 |
| | | Total | 15 |
| Seventh | Quart | er | |
| ACCT& | | Prin of Accounting I ¹ | 5 |
| CMST& | - | Interpersonal Communication ¹ | 5 |
| PSYC | 210 | Conception through Adolescent | Ŭ |
| | | Developmental Psychology ¹ | 5 |
| | | Total | 15 |
| | | | •• |

112-114 credits are required for the AAS

Departmentally approved elective numbered 100 or above may be substituted for courses required for the AAS degree.

SOC& 101 may be substituted with SOC& 201.

Certificate

5

5

3

3

5

3

5

5

5

5

5

| First Qua | arter | | |
|-----------|--------|--------------------------------------|----|
| HED | 108 | Human Anatomy | 5 |
| MA | 101 | Administrative Medical Assistant I | 5 |
| MA | 102 | Clinical Medical Assistant I | 3 |
| MA | 107 | Basic Medical Assisting | 3 |
| | | Total | 16 |
| Second (| Quarte | er | |
| HED | 125 | Medical Terminology | 5 |
| MA | 111 | Administrative Medical Assistant II | 3 |
| MA | 112 | Clinical Medical Assistant II | 5 |
| PHARM | 115 | Mathematics for Pharmacy Technicians | 5 |
| | | Total | 18 |
| Third Qu | arter | | |
| HED | 109 | Human Physiology and Disease | 5 |
| HIM | 120 | Medical Assistant Coding | |
| | | and Reimbursement | 3 |
| MA | 122 | Clinical Medical Assistant III: | |
| | | Phlebotomy and IV Therapy | 5 |
| MA | 125 | Ambulatory Care Setting Pharmacology | 5 |
| | | Total | 18 |
| Fourth Q | uartei | r - | |
| MA | 131 | Practice Finances and Management | 3 |
| MA | 132 | | 5 |
| MA | 141 | Medical Assistant Seminar | 1 |
| MA | 142 | Medical Assistant Externship | 6 |
| | | Total | 15 |

67 credits are required for the Certificate

MEDICAL OFFICE BILLING AND CODING SPECIALIST Certificate: SCC

This program prepares individuals for employment in medical offices as medical office receptionists, coders and insurance billers. Spokane is a major regional center for medical care offering maximum opportunities for employment. Positions are available in medical clinics, medical insurance companies and private physicians' offices.

Admission Requirements:

 Keyboarding Skills: 40 wpm with six or fewer errors completed at the SCC testing center or successful completion in BT 101 and 102, current first aid/CPR card or successful completion of EMS 120 or equivalent. Students with math ASSET scores below 30 or math COMPASS test scores below 20 must successfully complete BT 151 during the first quarter.

Certificate

First Quarter

| BT HED MSEC | 105 104 108 | Basic Grammar for Business II Medical Terminology and Anatomy Medical Office Computing Total | 5 5 5 15 |
|-------------------|-------------------|--|--------------------------|
| Second C | uarte | r | |
| ACCT | 151 | College Accounting I | 5 |
| BT HED | 231 105 | Office Procedures ¹ Medical Terminology and Anatomy ² Total | 5 5 15 |
| Third Qua | arter | | |
| BUS | 103 | Basic Business Math and Electronic Calculators ³ | 5 |
| MSEC | 121 | Medical Office Reception ⁴ | 5 |
| MSEC | 123 | Medical Office Coding ⁵ Total | 5 15 |
| Fourth Q | uarter | | |
| MSEC | 124 | Medical Office Insurance Billing ⁶ | 5 |
| MSEC | 125 | | 5 5 |
| MSEC | 223 | Medical Office Coding II ⁸ Total | э 15 |
| Fifth Qua | rter | | |
| BT | 160 | Job Preparation Techniques | 3 |
| MSEC | 120 | Human Relations/Communications for Medical Office Personnel | F |
| MSEC | 284 | Medical Internship Seminar | 5 1 |
| MSEC | 285 | Medical Office Reception Internship ⁹ | - |
| MSEC | 286 | Medical Insurance Billing Internship ⁹ Total | 2 2 13 |

73 credits are required for the Certificate

- ¹ BT 105, keyboarding proficiency.
- ² HED 104.
- ³ BUS 103 may be substituted with BT 128.
- ⁴ BT 231 or concurrent enrollment with BT 231.
- ⁵ HED 104, 105 or concurrent enrollment with 105.
- ⁶ Concurrent enrollment with MSEC 125.
- ⁷ ACCT 151, BUS 103, and concurrent enrollment with MSEC 124.
- ⁸ MSEC 123.
- ⁹ All of the courses listed above must be completed before enrolling in an internship. Cooperative education courses may be substituted.

MEDICAL OFFICE RECEPTIONIST Certificate: SCC

This program prepares individuals for employment in medical offices as medical office receptionists. Spokane is a major regional center for medical care, offering many opportunities for employment. Positions are available in medical clinics, medical insurance companies and private physicians' offices.

Admission Requirements:

• Keyboarding Skills: 40 wpm with six or fewer errors completed at the SCC testing center or successful completion in BT 106, current first aid/CPR card or successful completion of EMS 120 or equivalent. Students with math ASSET scores below 30 or math COMPASS test scores below 20 must successfully complete BT 152 during the first quarter. A student can be admitted to this program at the beginning of any quarter.

Certificate

| First Qua | rter | | |
|-----------|-------|--|----|
| BT | 105 | Basic Grammar for Business II | 5 |
| HED | 104 | Medical Terminology and Anatomy | 5 |
| MSEC | 108 | Medical Office Computing | 5 |
| | | Total | 15 |
| Second Q | uarte | r | |
| BT | 231 | Office Procedures ¹ | 5 |
| HED | 105 | Medical Terminology and Anatomy ² | 5 |
| MSEC | 121 | Medical Office Reception ³ | 5 |
| | | Total | 15 |
| Third Qua | arter | | |
| BT | 160 | Job Preparation Techniques | 3 |
| MSEC | 120 | Human Relations/Communications | |
| | | for Medical Office Personnel | 5 |
| MSEC | 284 | Medical Internship Seminar | 1 |
| MSEC | 285 | Medical Office Reception Internship ⁴ | 3 |
| | | Total | 12 |

42 credits are required for the Certificate

- BT 105, keyboarding proficiency
- ² HED 104.
- ³ BT 231 or concurrent with BT 231
 ⁴ All of the courses listed above must be completed before enrolling in an internship. Cooperative education may be substituted.

MEDICAL OFFICE SPECIALIST AAS: SCC

This program prepares individuals for employment in medical offices. Spokane is a major regional center for medical care offering many opportunities for employment. Positions are available in medical clinics, medical insurance companies and private physicians' offices.

Admission Requirements:

 Keyboarding Skills: 40 wpm with six or fewer errors completed at the SCC testing center or successful completion in BT 106, current first aid/CPR card or successful completion of EMS 120 or equivalent. Students with math ASSET scores below 30 or math COMPASS test scores below 20 must successfully complete BT 152 during the first quarter. A student can be admitted to this program at the beginning of any quarter. Students must complete all classes with a 2.0 grade or higher.

| Siduenis | musi | complete all classes with a 2.0 grade of t | ligher. |
|---------------------------------------|-----------------------------------|---|--------------------------|
| AAS First Qua BT HED MSEC | arter 105 104 108 | Basic Grammar for Business II Medical Terminology and Anatomy Medical Office Computing Total | 5 5 5 15 |
| Second | Quarte | ar | |
| ACCT BT HED | 151 165 105 | College Accounting I Word Processing Medical Terminology and Anatomy ¹ Total | 5 5 5 15 |
| Third Qu | arter | | |
| BT | 231 | | 5 |
| BUS | 103 | Basic Business Math | _ |
| MSEC | 120 | and Electronic Calculators ³ Human Relations/Communications | 5 |
| INISEC | 120 | for Medical Office Personnel | 5 |
| MSEC | 123 | Medical Office Coding ⁴ | 5 |
| | | Total | 20 |
| Fourth O | | _ | |
| Fourth Q MSEC | 121 | r Medical Office Reception ⁵ | 5 |
| MSEC | 223 | | 5 |
| MSEC | 240 | Medical Office Transcription ⁷ | 5 |
| | | Total | 15 |
| Fifth Qua | arter | | |
| BT | 160 | Job Preparation Techniques | 3 |
| MSEC | 124 | Medical Office Insurance Billing ⁸ | 5 |
| MSEC MSEC | 125 241 | Medical Office Bookkeeping ⁹ Medical Office Transcription ¹⁰ | 5 5 |
| MSEC | 241 | Total | 5 18 |
| | | | |
| Sixth Qu | | | _ |
| BT MA | 260 | Administrative Office Management | 5 3 |
| MA | 107 284 | Basic Medical Assisting Medical Internship Seminar | 3 1 |
| MSEC | 285 | Medical Office Reception Internship ¹¹ | 2 |
| MSEC | 287 | Medical Specialist Internship ¹¹ | 2 |
| | | Total | 13 |
| | | | |
| 96 credit | s are | required for the AAS | |

- ¹ HED 104
- ² BT 105, keyboarding proficiency
- ³ BUS 103 may be substituted with BT 128.
- ⁴ HED 104, 105 or concurrent enrollment with 105.
- ⁵ BT 231 or concurrent with BT 231.
- ⁶ MSEC 123
- ⁷ Typing test 40 wpm
- ⁸ Concurrent enrollment with MSEC 125
- ⁹ ACCT 151, BUS 103 and concurrent enrollment with MSEC 124
- ¹⁰ MSEC 240
- ¹¹ All of the courses listed above must be completed before enrolling in an internship. Cooperative education may be substituted.

MEDICAL TRANSCRIPTION AAS: SCC

This educational program in medical transcription prepares the student for entry–level employment as a medical transcriptionist. This program provides the basic knowledge, understanding and skills required to transcribe medical dictation with accuracy, clarity and timeliness, applying the principles of professional and ethical conduct. Students will also edit documents generated by speech recognition. The final quarter offers practical application

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of medical transcription in a hospital, clinic or medical transcription service environment.

Students must achieve at least a 2.0 grade point in all courses.

| AAS | | | | |
|-------------------------------------|------------|--|---------------------|--|
| First Qua | 105 | Basic Grammar for Business II | 5 | |
| BUS | 103 | Basic Business Math and Electronic Calculators ¹ | 5 | |
| HED | 104 | Medical Terminology and Anatomy Total | 5 15 | |
| Second | Quarte | er | | |
| BT | 272 | | 5 | |
| HED MSEC | 105 131 | Medical Terminology and Anatomy Fundamentals of Medical Word Processing Total | 5 5 15 | |
| Third Qu | arter | | | |
| HED | 109 | Human Physiology and Disease ² | 5 | |
| MSEC | 132 | Medical Transcription I Total | 10 15 | |
| Fourth C | uarte | r | | |
| HED | 145 | | 3 | |
| MSEC MSEC | 123 133 | | 5 10 | |
| | | Total | 18 | |
| Fifth Qua | arter | | | |
| CMST& | 210 | Interpersonal Communication ³ | 5 | |
| MSEC MSEC | 134 223 | Speech Recognition/Editing Medical Office Coding II | 5 5 | |
| molo | 220 | Total | 15 | |
| Sixth Qu | arter | | | |
| BT | 160 | Job Preparation Techniques | 3 | |
| MSEC MSEC | 150 284 | Medical Transcription Practicum Medical Internship Seminar | 8 1 | |
| NOLO | 204 | Total | 12 | |
| 90 credits are required for the AAS | | | | |
| | 0.2 | who autotituted with PT 100 | | |

- ¹ BUS 103 may be substituted with BT 128.
- HED 109 may be substituted with HED 129.
- ³ CMST& 210 may be substituted with MSEC 120.

MEDICINE PRE-MAJOR

AA-DTA, Associate in Biology DTA/MRP: SCC/SFCC

Usually a bachelor's degree is required for admission to medical school –however, some schools now consider students after completion of their junior year. Competition for admission is intense; a high overall college grade point average must be maintained.

AA-DTA

| Suggested Courses to Consider ¹ | 90 |
|--|----|
| Total | 90 |

90 credits are required for the AA-DTA

| Associate in Biology DTA/MRP | |
|--|----|
| Suggested Courses to Consider ¹ | 90 |
| Total | 90 |

90 credits are required for the Associate in Biology DTA/MRP

¹ Consult a counselor or academic adviser for recommended courses specific to student's choice of transfer institution.

MULTI-OCCUPATIONAL TRADES AAS: SCC

The primary function of the Multi–Occupational Trades apprenticeship program is to train and produce journey–level workers who meet the stringent requirements of each individual trade. This is accomplished through a combination of technical skills obtained in an approved apprenticeship program (a minimum of 6,000 clock hours); the theory and practical applications learned in apprenticeship–related courses (450 clock hours); and instruction received in related education and elective courses.

This program is open only to apprentices enrolled in a local JATC–approved apprenticeship training program. Verification of completion of an apprenticeship program by the JATC is required before submission of the petition for graduation. The combined total of 23–25 program credits, 6000 OJT hours, and 450 hours of related training will meet the 30–hour residency requirements of AAS degree candidates.

AAS

| 10 10 |
|-------|
| 13-15 |
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| 0 |
| 0 |
| |

23-25 credits are required for the AAS

Elective

| CIS | 110 | Introduction to Computer Applications | 5 |
|-----------|------|---|-----|
| MMGT | 205 | Small Business Planning | 5 |
| | | | |
| Related E | duca | tion | |
| APLED | 112 | Applied Mathematics | 3-4 |
| APLED | 121 | Applied Written Communication | 4 |
| APLED | 123 | Leadership Skills for Business and Industry | 3-4 |
| APLED | 125 | Employment Preparation | 3 |

¹ These are recommended electives. Substitutions must be approved by the JATC.

² These related education requirements may be met by any course or combination of courses approved for substitution by the instructional dean.

MUSIC (ASSOCIATE IN FINE ARTS DEGREE) AFA: SFCC

The Associate in Fine Arts (AFA) in Music offers a foundation for students pursuing a four year degree in Music, either a Bachelor of Arts (BA) or Bachelor of Music (BM). To complete the AFA, students complete 60 credits of Music and 40 credits of General Education Requirements. Courses satisfying General Education Requirements must include ENGL& 101 (5 credits); MATH& 107 (5 credits); Social Science (5 credits). Non Lab Science (5 credits); and Lab Science (5 credits). The additional 15 General Education Requirements credits will be determined based on your transfer destination and in consultation with an academic adviser in Music.

With the AFA, students transfer with a minimum of 90 credits to colleges and universities SFCC maintains articulation agreements with. University Music Departments may require an audition for admission to Music programs. Through ensemble experience and private applied instruction, the AFA provides students the opportunity to audition successfully. Students must maintain a cumulative GPA of 2.0 or better.

AFA

| First Qua | rter | | |
|---------------|------------|---|-------------------------------|
| MUSC& MUSC | 141 176 | Music Theory I Beginner Piano Class I Ensemble ¹ General Education Requirement ² Total | 5 2 2 5 14 |
| Second Q | uarte | r | |
| MUSC& MUSC | 142 177 | Music Theory II Beginner Piano Class II Ensemble ¹ General Education Requirement ² Total | 5 2 10 19 |
| Third Qua | arter | | |
| MUSC& MUSC | 143 178 | Music Theory III Beginner Piano Class III Ensemble ¹ General Education Requirement ² Total | 5 2 2 5 14 |
| Fourth Qu | uarter | | |
| MUSC& MUSC | 241 276 | Music Theory IV Advanced Piano Class I Ensemble ¹ General Education Requirement ² Total | 5 2 2 5 14 |
| Fifth Qua | rter | | |
| MUSC& MUSC | 242 277 | Music Theory V Advanced Piano Class II Ensemble ¹ General Education Requirement ² Total | 5 2 10 19 |
| Sixth Qua | rter | | |
| MUSC& MUSC | 243 278 | Music Theory VI Advanced Piano Class III Ensemble ¹ General Education Requirement ² Total | 5 2 2 5 14 |

94 credits are required for the AFA

- You may earn ensemble credit through participation in Choir, Orchestra, Concert Band, Jazz Band, Jazz Combos, and Jazz Choir. To select appropriate ensembles, it is essential you meet with a faculty academic adviser in Music. Not all ensembles transfer to all colleges and universities. So it is important you select the ensembles transferable to the four year institution you wish to attend.
- ² General Education Requirements must include ENGL& 101, MATH& 107, a social science, a non-lab science course and a lab science course. Additional General Education Requirements are necessary as determined by your transfer destination. Please speak with a Music Academic Adviser.
- ³ May be substituted with MUSC 190
- ⁴ MUSC 183 may be accepted as an ensemble credit in the MUSIC AFA program.

NATURAL RESOURCE MANAGEMENT AAS, Certificate: SCC

The associate in applied science degree in Natural Resource Management prepares students to work in the forestry area. This program is conditionally accredited by the Society of American Foresters. Two additional options are available: Parks and Recreation or Wildlife Fisheries. The Parks and Recreation option prepares students for park maintenance and/or interpretive positions. The Wildlife/Fisheries option prepares students to perform field sampling as well as habitat restoration work.

Students must obtain a minimum COMPASS score of Math 1 32, Writing 54 and Reading 72 to enter the program. All students must complete an internship of at least 400 hours to complete the degree. Second year: Student may remain in the main program which is forestry based, or they may select one of the two options for an AAS degree which requires a total of 105 credits.

5

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5

1

18

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3

Б

AAS – Natural Resource Management

First Quarter ENVS 110 Plant Biology NATRS 112 Natural Resources Mathematical Applications¹ NATRS **Basic Computer Applications** 120 in Natural Resources NATRS 202 Dendrology Natural Resources Occupational Experience NATRS 225 Total Second Quarter NATRS Natural Resources Trigonometric 122 Applications NATRS 204 Maps and Aerial Photo Interpretation NATRS 215 Forest Measurements Natural Resources Occupational Experience NATRS 225 WATER 120 Hydrologic Technical and Field Reports² Total Third Quarter Chainsaw Operation, Maintenance NATRS 130 and Safety NATRS 201 Forest Protection

| NAINO | 201 | | J |
|-----------|--------|---|------------------|
| NATRS | 220 | Introduction to Geographic Information | |
| | | Systems for Natural Resources | 5 |
| NATRS | 230 | Global Positioning Systems | 3 |
| | | Total | 16 |
| Fourth G | Quarte | r | |
| NATRS | 203 | Forest Harvesting and Products | 5 |
| NATRS | 209 | Silviculture | 5 |
| NATRS | 216 | Forest Inventory | 5 |
| NATRS | 225 | Natural Resources Occupational Experience | e ³ 1 |
| | | Total | 16 |
| Fifth Qua | arter | | |
| ENVS | 207 | Wildlife Biology | 5 |
| ENVS | 210 | Environmental Soil Science | 5 |
| NATOO | 004 | Applications in Coorrephie | |

| NATRS | 221 | Applications in Geographic | |
|-----------|-------|---|------------------|
| | | Information Systems | 4 |
| NATRS | 225 | Natural Resources Occupational Experience | e ³ 1 |
| | | Elective ⁴ | 5 |
| | | Total | 20 |
| | | | |
| Civth Out | ortor | | |

| Sixin Qu | arter | | |
|----------|-------|---------------------------------------|----|
| ENVS | 208 | Outdoor Recreation and Interpretation | 3 |
| NATRS | 205 | Surveying | 5 |
| | | Elective ⁵ | 5 |
| | | Total | 13 |

105 credits are required for the AAS

- ¹ Must pass with a 2.0 or higher grade before advancing into NATRS 122.
- ² Approved written communication courses at the level of 100 or higher may be substituted.
- ³ A 400 hour internship, either paid or volunteer, must have been completed before registering for this course.
- ⁴ Electives may include any liberal arts, career or technical course number 100 or higher and are acceptable for an AA degree.

⁵ Elective may include any ENVS, NATRS, WATER, or AGHRT course number 100 or higher. AAS – Parks and Recreation Option **First Quarter** ENVS 110 Plant Biology 5 Natural Resources Mathematical NATRS 112 Applications ¹ 5 NATRS **Basic Computer Applications** 120 in Natural Resources 2 NATRS 202 Dendrology 5 NATRS 225 Natural Resources Occupational Experience 1 18 Total Second Quarter NATRS 204 Maps and Aerial Photo Interpretation 5 NATRS **Forest Measurements** 215 5 Natural Resources Occupational Experience 2 NATRS 225 Hydrologic Technical and Field Reports² 5 WATER 120 Elective 3 Total 20 **Third Quarter** ENVS **Environmental Conservation** 5 104 NATRS 130 Chainsaw Operation, Maintenance and Safetv 3 NATRS 201 Forest Protection 5 NATRS 220 Introduction to Geographic Information Systems for Natural Resources 5 NATRS 230 **Global Positioning Systems** 3 Total 21 Fourth Quarter AGGEN Equipment Operation and Maintenance 2 156 CMST& 101 Introduction to Communication 5 Silviculture NATRS 209 5 Natural Resources Occupational Experience NATRS 225 1 Elective ³ 4 Total 17 **Fifth Quarter** Wildlife Biology 5 ENVS 207 ENVS 210 Environmental Soil Science 5 NATRS 225 Natural Resources Occupational Experience 1 Elective ⁵ 5 Total 16 Sixth Quarter AGGEN 151 Shop Skills 4 ENVS 208 **Outdoor Recreation and Interpretation** 3 ENVS 237 **Bird Identification** 3 Elective ³ 3 Total 13 105 credits are required for the AAS Must pass with a 2.0 or higher grade before advancing into **NATRS 122.**

- ² Approved written communication courses at the level of 100 or higher may be substituted.
- ³ Electives must be AGGEN, AGHRT, ENVS or WATER courses.
- ⁴ A 400 hour internship, either paid or volunteer, must have been completed before registering for this course.
- ⁵ Electives may include any liberal arts, career or technical course number 100 or higher and are acceptable for an AA degree.

| AAS – Wildlife/Fisheries Option First Quarter | | | | | |
|--|---------|--|----------------|--|--|
| ENVS | 110 | Plant Biology | 5 | | |
| NATRS | 112 | Natural Resources Mathematical Applications ¹ | 5 | | |
| NATRS | 120 | Basic Computer Applications in Natural Resources | 2 | | |
| NATRS | 202 | Dendrology | 2 5 | | |
| NATRS | 202 | Natural Resources Occupational Experience | 1 | | |
| N/ III O | 220 | Total | 18 | | |
| Second (| Quarte | er. | | | |
| NATRS | 122 | Natural Resources Trigonometric Applications | 5 | | |
| NATRS | 204 | Maps and Aerial Photo Interpretation | 5 | | |
| NATRS | 215 | Forest Measurements | 5 | | |
| NATRS | 225 | Natural Resources Occupational Experience | 2 | | |
| WATER | 120 | Hydrologic Technical and Field Reports ² Total | 5 22 | | |
| Third Qu | artor | | | | |
| NATRS | 130 | Chainsaw Operation, Maintenance | | | |
| | 100 | and Safety | 3 | | |
| NATRS | 201 | Forest Protection | 5 | | |
| NATRS | 220 | Introduction to Geographic Information | Ũ | | |
| | | Systems for Natural Resources | 5 | | |
| NATRS | 230 | Global Positioning Systems | 3 | | |
| | | Total | 16 | | |
| Fourth Q | uarte | r | | | |
| ENVS | 216 | Fisheries Ecology | 5 | | |
| ENVS | 226 | Fisheries Techniques | 4 | | |
| NATRS | 209 | Silviculture | ຸ5 | | |
| NATRS | 225 | | ³ 1 | | |
| | | Total | 15 | | |
| Fifth Qua | arter | | | | |
| ENVS | 207 | Wildlife Biology | 5 | | |
| ENVS | 210 | Environmental Soil Science | 5 | | |
| NATRS | 221 | Applications in Geographic | | | |
| | | Information Systems | 4 | | |
| NATRS | 225 | Natural Resources Occupational Experience | ³ 1 | | |
| WATER | 209 | Water Quality | 5 | | |
| | | Total | 20 | | |
| Sivth Ou | ortor | | | | |
| Sixth Qu ENVS | 217 | Wildlife Techniques | 4 | | |
| ENVS | 227 | | 4 | | |
| ENVS | 237 | 0, | 3 | | |
| WATER | 205 | Differential Leveling | 3 | | |
| | | Total | 14 | | |
| 105 cred | its are | e required for the AAS | | | |
| ¹ Muet p | | th a 2.0 or higher grade before advancing into | | | |
| NATRS | | In a 2.0 of higher grade before advancing into | | | |
| | | tten communication courses at the level of 100 | or | | |
| | | e substituted. | 0. | | |
| | | ternship, either paid or volunteer, must have | | | |
| | | ted before registering for this course. | | | |
| Certifica | te – Na | atural Resources Technologies in Geograph | nic | | |
| Informat | | vstems | | | |
| | - | Natural Resources Electives ¹ | 3 | | |
| | | Natural Special Project Electives ² | 3 | | |
| | | Total | 6 | | |
| | | | | | |

First Quarter

| i li Si Que | ii tei | | |
|-------------|--------|--|--|
| NATRS | 112 | Natural Resources Mathematical Applications ³ | |
| | | | |

| NATRS | 120 | Basic Computer Applications in Natural Resources Total | 2 7 |
|-----------------------|----------|--|--------|
| Second Q | Juarte | ar | |
| NATRS | 220 | Introduction to Geographic Information | |
| N/TIXO | 220 | Systems for Natural Resources ⁴ | 5 |
| NATRS | 230 | Global Positioning Systems | 3 |
| NAINO | 200 | Total | 8 |
| | | lotai | 0 |
| Third Qua | arter | | |
| NATRS | 204 | Maps and Aerial Photo Interpretation | 5 |
| NATRS | 221 | Applications in Geographic | 0 |
| N/TIXO | 221 | Information Systems | 4 |
| | | Total | 9 |
| | | | Ŭ |
| 30 credits | s are | required for the Certificate | |
| | | | |
| | | rces Electives | F |
| ENVS | | Wildlife Biology | 5 |
| ENVS | 217 | Wildlife Techniques Fisheries Techniques | 4 |
| ENVS NATRS | | | 4 5 |
| NATR5 | 210 | Forest Inventory | 5 |
| Natural S | necia | Il Project Electives | |
| NATRS | | Field Projects in Natural Resources | 3 |
| | 202 | | U |
| ¹ Student | ts may | y select courses from the Natural Resource | |
| | | bup for a minimum of three credits. | |
| | | st be enrolled in the Natural Resources | |
| | | , Parks and Recreation option, or the Wildlife/ | |
| | | ion program. | |
| ³ This rel | ated e | education requirement may be met by any cour | se |
| or com | binatio | on of courses approved by the instructional dea | ın. |
| | | must be passed with a 2.0 or higher grade. | |
| ⁴ NATRS | 5 220 o | contains a prerequisite of NATRS 120 or | |
| | | f instructor. Student must be enrolled in the | |
| Natural | Reso | urce Management, Parks and Recreation optic | n, |
| | Vildlife | e/Fisheries option program. | |
| ⁵ Studen | t must | t be enrolled in the Natural Resource | |
| | | or the Parks and Recreation option program. | |
| | | ontains a prerequisite of NATRS 120, 122, ENV | |
| | | ssion of instructor. Student must be enrolled in t | ne |
| | | eries option program. | |
| | | ontains a prerequisite which requires enrollment | in |
| | | isheries option program or permission | |
| of instru | | containe a processiviaite of NATRS 245, 422 or | |
| NAING | | contains a prerequisite of NATRS 215, 122 or finstructor and enrollment in the Natural | |
| | | anagement program. | |
| Resour | | | |
| NETWOR | K DE | SIGN AND ADMINISTRATION | |
| AAS, Cer | | | |
| | | | |
| The Netw | ork De | esign and Administration program prepares | |
| | | al-and wide-area network administrators. | |
| Successfu | ul com | pletion of the program provides students with t | he |
| | | of network administration including network | |
| | | entation, maintenance, optimization, and | |
| | | , utilizing a variety of network operating system | IS, |
| | | latforms and protocols. These include but are r | |
| limited to | Micro | soft, Cisco and UNIX. Upon completion, studer | nts |
| | | bjectives leading toward professional | |
| | | ective oral and written communications are | |
| | | oughout the program. | |
| | | | |
| | | | |

Degree Prerequisites/Requirements:

5

- Completion of BT 101 Keyboarding or keyboarding challenge through testing center CIS 110 or permission of Department Chair •
- •

All required courses must be completed with a grade of 2.0 or better before proceeding to the next quarter or before a diploma is awarded.

| AAS | | | |
|------------------------|--------------|--|----------------|
| First Qua CIS | arter 103 | Mobile Devices | 5 |
| CIS | 103 | Network Math | 2 |
| CIS | 201 | IT Essentials - A+ | 5 |
| MATH | 104 | Computer Math | 3 |
| | | Total | 15 |
| Second (| Quarte | | |
| CIS | 234 | Network Scripting | 3 |
| CIS | 244 | Windows Server Installation | F |
| CIS | 250 | and Configuration Cisco I Introduction to Networks | 5 5 |
| ENGL& | 101 | English Composition I | 5 |
| | | Total | 18 |
| Third Qu | arter | | |
| CIS | 236 | Windows Server Administration | 5 |
| CIS | 247 | Virtualization Technologies | 5 |
| CIS | 251 | Cisco II Routing and Switching Essentials | 5 |
| | | Communication Elective ¹ | 5 20 |
| | | Total | 20 |
| Fourth Q | | | |
| BT | 280 | Project Management for the Office | 2.5 |
| CIS CIS | 206 252 | Introduction to Linux/Unix Cisco III Scaling Networks | 5 5 |
| CIS | 263 | Advanced Windows Server | 5 |
| 0.0 | _00 | Total | 17.5 |
| F ifth O | | | |
| Fifth Qua BT | arter 160 | Job Propagation Tachniques | 3 |
| CIS | 213 | Job Preparation Techniques Advanced Linux/Unix | 5 |
| CIS | 253 | Cisco IV Connecting Networks | 5 |
| CIS | 286 | Cisco Emerging Technologies | 5 |
| | | Total | 18 |
| Sixth Qu | arter | | |
| CIS | 270 | Principles of Network Security | 5 |
| CIS | 275 | Networking Capstone | 5 |
| CIS | 277 | Database Administration | 5 |
| | | Total | 15 |
| 103.5 cre | edits a | re required for the AAS | |
| | | n Elective | |
| BUS | 280 | Human Relations in Business | 5 |
| CMST& | 210 | Interpersonal Communication | 5 |
| CMST CMST& | 227 230 | Intercultural Communication Small Group Communication | 5 5 |
| CMST | 250 | Managing Conflict Through Communication | |
| ENGL | 120 | Applied Technical Writing for Vocations | 3-5 |
| ENGL& | 235 | Technical Writing | 5 |
| ¹ Select | from tl | he communication elective group. | |
| Certifica | te | | |
| First Qua | | | |
| CIS | 103 | Mobile Devices | 5 |
| CIS CIS | 106 | Network Math IT Essentials - A+ | 2 5 |
| MATH | 201 104 | Computer Math | 5 3 |
| | .04 | Total | 15 |
| Second | Quarte | Sr. | |
| CIS | 206 | Introduction to Linux/Unix ¹ | 5 |
| CIS | 244 | Windows Server Installation | - |
| | | and Configuration | 5 |

| CIS ENGL& | 250 101 | Cisco I Introduction to Networks English Composition I Total | 5 5 20 |
|---|---|--|--|
| Third Qu CIS CIS CIS | arter 236 247 251 | Windows Server Administration Virtualization Technologies Cisco II Routing and Switching Essentials Communication Elective ² Total | 5 5 5 5 20 |
| 55 credit | s are | required for the Certificate | |
| Commun BUS CMST& CMST CMST& CMST ENGL ENGL& | 280 210 227 230 250 120 | Interpersonal Communication Intercultural Communication Small Group Communication Managing Conflict Through Communication | 5 5 5 5 5 3-5 5 5 |
| offered | in the | be substituted with CIS 263 if CIS 206 is not appropriate quarter (certificate only). ne communication elective group. | |
| | | isco Networking | |
| First Qua CIS CIS CIS CIS | 250 251 252 253 | Cisco III Scaling Networks | 5 5 5 20 |
| 20 credit | s are | required for the Certificate | |
| | | | |
| | | troduction To Networking | |
| Certificat First Qua CIS | | troduction To Networking Windows Client OS Total | 5 5 |
| First Qua CIS | arter 205 | Windows Client OS | |
| First Qua CIS 5 credits Certificat | arter 205 are re te – M | Windows Client OS Total | |
| First Qua CIS 5 credits | arter 205 are re te – M | Windows Client OS Total equired for the Certificate icrosoft Networking Windows Server Administration Windows Server Installation | 5 |
| First Qua CIS 5 credits Certificat First Qua CIS | arter 205 are re te – M arter 236 | Windows Client OS Total equired for the Certificate icrosoft Networking Windows Server Administration Windows Server Installation and Configuration Advanced Windows Server | 5 |
| First Qua CIS 5 credits Certificat First Qua CIS CIS CIS CIS CIS | arter 205 are re te – M arter 236 244 263 277 | Windows Client OS Total equired for the Certificate icrosoft Networking Windows Server Administration Windows Server Installation and Configuration Advanced Windows Server Database Administration | 5 5 5 5 5 |
| First Qua CIS 5 credits Certificat First Qua CIS CIS CIS CIS 20 credit Certificat | arter 205 are re te – M arter 236 244 263 277 s are r te – M 103 | Windows Client OS Total equired for the Certificate icrosoft Networking Windows Server Administration Windows Server Installation and Configuration Advanced Windows Server Database Administration Total required for the Certificate obile Device Management Mobile Devices | 5 5 5 5 5 5 20 5 |
| First Qua CIS 5 credits Certificat First Qua CIS CIS CIS CIS 20 credit Certificat | arter 205 are re 236 244 263 277 s are 1 te – M | Windows Client OS Total equired for the Certificate icrosoft Networking Windows Server Administration Windows Server Installation and Configuration Advanced Windows Server Database Administration Total required for the Certificate obile Device Management Mobile Devices | 5 5 5 5 20 |
| First Qua CIS 5 credits Certificat First Qua CIS CIS CIS CIS 20 credit Certificat CIS CIS CIS | arter 205 are re te – M arter 236 244 263 277 s are r te – M 103 104 | Windows Client OS Total equired for the Certificate icrosoft Networking Windows Server Administration Windows Server Installation and Configuration Advanced Windows Server Database Administration Total required for the Certificate obile Device Management Mobile Devices Mobile Device Management | 5 5 5 5 5 20 5 5 |
| First Qua CIS 5 credits Certificat First Qua CIS CIS CIS CIS 20 credit CIS CIS CIS CIS CIS CIS CIS CIS CIS CIS | arter 205 are re te – M arter 236 244 263 277 s are 1 103 104 s are 1 te – M | Windows Client OS Total equired for the Certificate icrosoft Networking Windows Server Administration Windows Server Installation and Configuration Advanced Windows Server Database Administration Total required for the Certificate obile Device Management Mobile Devices Mobile Device Management Total | 5 5 5 5 5 20 5 5 |
| First Qua CIS 5 credits Certificat First Qua CIS CIS CIS CIS 20 credit Certificat CIS CIS CIS CIS CIS CIS CIS CIS CIS CIS | arter 205 are re te – M arter 236 244 263 277 s are 1 103 104 s are 1 te – M | Windows Client OS Total equired for the Certificate icrosoft Networking Windows Server Administration Windows Server Installation and Configuration Advanced Windows Server Database Administration Total required for the Certificate obile Device Management Mobile Devices Mobile Devices Management Total required for the Certificate obile Health Information Technology Mobile Devices | 5 5 5 5 5 20 5 5 |
| First Qua CIS 5 credits Certificat First Qua CIS CIS CIS 20 credit Certificat CIS CIS 10 credit Certificat CIS CIS CIS CIS CIS CIS CIS CIS CIS CIS | arter 205 are re te - M arter 236 244 263 277 s are 1 103 104 s are 1 te - M arter 103 104 Quarter | Windows Client OS Total equired for the Certificate icrosoft Networking Windows Server Administration Windows Server Installation and Configuration Advanced Windows Server Database Administration Total required for the Certificate obile Device Management Mobile Devices Mobile Devices Mobile Device Management Total required for the Certificate obile Health Information Technology Mobile Device Management Total | 5 5 5 5 5 5 5 5 20 5 5 5 5 5 5 5 5 5 5 5 |
| First Qua CIS 5 credits Certificat First Qua CIS CIS CIS 20 credit Certificat CIS CIS 10 credit Certificat CIS CIS CIS CIS | arter 205 are re te - M arter 236 244 263 277 s are 1 103 104 s are 1 te - M arter 103 104 | Windows Client OS Total equired for the Certificate icrosoft Networking Windows Server Administration Windows Server Installation and Configuration Advanced Windows Server Database Administration Total required for the Certificate obile Device Management Mobile Devices Mobile Device Management Total required for the Certificate obile Health Information Technology Mobile Device Management Total returned for the Certificate | 5 5 5 5 5 5 5 5 20 5 5 10 5 5 10 5 5 5 5 5 5 5 5 5 5 5 5 |

| HIM | 221 | HIMS Systems Analysis, Implementation |
|-----|-----|---------------------------------------|
| | | and Maintenance |
| | | Total |

25 credits are required for the Certificate

| Certificate – Networking Essentials First Quarter | | | |
|--|--------|--------------------|----|
| FIrst Qu | larter | | |
| CIS | 103 | Mobile Devices | 5 |
| CIS | 201 | IT Essentials - A+ | 5 |
| CIS | 234 | Network Scripting | 3 |
| | | Total | 13 |
| 13 credits are required for the Certificate | | | |

| Certific First Q | | nix Networking | |
|---------------------|-----|----------------------------|----|
| CIS | 206 | Introduction to Linux/Unix | 5 |
| CIS | 213 | Advanced Linux/Unix | 5 |
| | | Total | 10 |

10 credits are required for the Certificate

NONINVASIVE CARDIOVASCULAR **TECHNOLOGY/ECHOCARDIOGRAPHY** AAS: SCC

Noninvasive Cardiovascular Technology/Echocardiography is an Allied Health profession specifically concerning the diagnosis and treatment of patients with cardiac and peripheral vascular disease. The technologist performs examinations at the request or direction of a physician. Through subjective sampling and/or recording, the technologist proceeds with the examination to create an easily definable foundation of data from which a correct anatomic and physiologic diagnosis may be established for each patient.

The primary role of the noninvasive cardiovascular technologist/echocardiography is to obtain recordings of ultrasound images of the heart and related structures for the physician to interpret. The various types of ultrasound equipment require a highly skilled operator to obtain the imaging information or other data required. The noninvasive cardiovascular technologist/echocardiographer must obtain appropriate clinical history, cardiac-related physical findings, and pertinent laboratory data in order to adapt the imaging techniques to obtain comprehensive and diagnostic echocardiographic information. The Cardiovascular Technology Programs (Invasive and Noninvasive) are accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Joint Review Committee for Cardiovascular Technology (www.jrccvt.org). JRC-CVT 6 Pine Knoll Dr. Beverly, MA 01915-1425, (978) 456-5594. Students within the non-invasive cardiovascular technology/ echocardiography program are required to complete a six month, full-time clinical internship. As clinical space is limited in Spokane and the surrounding area, the student may be required to complete their internship in an out-of-town and/or out-ofarea medical center.

Admission Recommendations/Requirements:

- Active e-mail account recommended
- Computer skills recommended
- CHEM 120; CHEM& 121; HED 125; PHYS 100; PHYS 120 are recommended
- Appropriate scores in ASSET or COMPASS required
- Immunizations and drug screening and National background check are required after being accepted into the program.
- A 2.0 grade must be maintained quarterly in every course before proceeding to the next quarter.

- Students may repeat a noninvasive course once, but it must be repeated within two years.
- High school diploma or GED certificate required.
- Interview with cardiovascular technology instructor required

Program Prerequisites:

All math and science prerequisites must have been completed within the last five years with a grade of 2.0 or better.

AAS

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| Prerequis | sites: | | |
|-----------|--------|--|----|
| – BIOL& | 160 | General Biology w/Lab | |
| – BIOL& | 241 | Human A & P 1 | |
| – BIOL& | 242 | Human A & P 2 | |
| – CMST | 127 | Leadership Development | |
| – ENGL& | 101 | English Composition I | |
| – MATH | 099 | Intermediate Algebra | |
| First Qua | rter | | |
| ECHO | 100 | Introduction to Echo and Vascular | 2 |
| ECHO | 112 | Vascular Fundamentals | 4 |
| ECHO | 116 | Acute Coronary Syndrome | 1 |
| ECHO | 117 | Cardiovascular Pharm 1 | 1 |
| ECHO | 125 | Ultrasound Physics and Instrumentation I | 5 |
| ECHO | 213 | Electrophysiology | 4 |
| | | Total | 17 |
| Second G | Quarte | er | |
| ECHO | 122 | Vascular Procedures I | 4 |
| ECHO | 126 | Hemodynamics | 2 |
| ECHO | 127 | Technical Skills/Reading Hemodynamics | 1 |
| ECHO | 128 | Cardiovascular Pharm 2 | 1 |
| ECHO | 127 | Technical Skills/Reading Hemodynamics | |

| ECHO 1 ECHO 1 ECHO 1 ECHO 1 ECHO 1 | Hemodynamics Technical Skills/Reading Hemodynamics Cardiovascular Pharm 2 Technical Skills/Pharmacology Echo Fundamentals Ultrasound Physics and Instrumentation II Total | 2 1 1 5 5 9 |
|--|---|-----------------------------------|
| ECHO 1 ECHO 1 ECHO 2 | Core Concepts in Echo Vasc Comparative Imaging Analysis Cardiovascular Physiology Echocardiography I Technical Skills Echocardiography I | 2 3 4 2 7 |
| ECHO 1 ECHO 1 ECHO 1 | Surgical Asepsis Technical Skills/Surgical Asepsis Data Collection and Presentation Echo Clinical Preparation Echo Clinical I | 1 3 4 5 |
| ECHO 2 ECHO 2 ECHO 2 | 51 Echocardiography Clinical II 52 Cardiovascular Pathophysiology 55 Research Methods & Biostatistics 53 Echocardiography II 54 Technical Skills Echo II | 6 1 3 7 2 9 |
| Sixth Quart ECHO 2 Seventh Qu | 1 Echocardiography Clinical III 1 Total 1 | 4 4 |
| ECHO 2 | 73 Echocardiography Clinical IV 1 | 4 |

Total 14

115 credits are required for the AAS

¹ All math and science courses must have been completed within the last five years and must have been completed with a grade point of 2.0 or better.

NURSING (ASSOCIATE IN) DTA/MRP Associate in Nursing DTA/MRP: SCC

The Associate in Nursing DTA/MRP is a pathway for students to move from the community college to a university as a senior student. This pathway allows for seamless progression to baccalaureate education. A candidate for the Associate in Nursing DTA/MRP degree must complete 60 pre-nursing credits and 75 in program credits to be eligible for completion of this degree. It's highly recommended that students meet with a counselor or academic adviser at SCC or SFCC on a regular basis to ensure that requirements for this program are being met.

- Completion of pre-requisites does not ensure admission into the Nursing program.
- Students must complete all the pre-requisites prior to starting the nursing program. Students may apply to the nursing program after completing 45 credits. The courses that must be completed prior to application are: BIOL& 160, CHEM& 121, BIOL& 241, BIOL& 242, BIOL& 260, ENGL& 101, PSYC& 100, PSYC& 200, and MATH& 146. The remaining 15 credits may be taken while waiting for acceptance to the program. Acceptance will be conditional if all prerequisites are not completed prior to the start of the nursing program.
- At least 30 credits must be earned in residence from Spokane Community College or Spokane Falls Community College. Prior level college credits and grade points are transferred for calculating total credits and GPA.
- Completion of the DTA will satisfy requirements for direct transfer with only one additional year of study to complete the Bachelor of Science in Nursing (BSN) degree at four-year institutions in Washington State. Please double check the college requirements with any other school to ensure they accept the direct transfer agreement. It is highly recommended that students meet with a counselor or academic adviser to ensure the college they choose does not have additional requirements.
- Please refer to the nursing program admission requirements as they may have changed. www.scc.spokane.edu/HealthSciences/Nursing

Associate in Nursing DTA/MRP

| Associate in | | |
|--------------|--|----|
| BIOL& 16 |) General Biology w/Lab ¹ | 5 |
| BIOL& 24 | 1 Human A & P 1 ¹ | 5 |
| BIOL& 24 | 2 Human A & P 2 ¹ | 5 |
| BIOL& 26 | D Microbiology ¹ | 5 |
| CHEM& 12 | 1 Intro to Chemistry: w/Lab ⁶ | 5 |
| CMST 22 | 7 Intercultural Communication ¹ | 5 |
| ENGL& 10 | 1 English Composition I ¹ | 5 |
| ENGL& 10 | 2 Composition II ¹ | 5 |
| HUM& 10 | 1 Intro to Humanities ⁵ | 5 |
| MATH& 14 | 5 Introduction to Stats ¹ | 5 |
| PSYC& 10 |) General Psychology ¹ | 5 |
| PSYC& 20 | D Lifespan Psychology ¹ | 5 |
| | Total | 60 |
| | | |

First Quarter

| NURS | 101 | Foundational Principles in Nursing | 3 |
|-------|-----|--|----|
| NURS | 102 | Application of Foundational Principles | |
| | | in Nursing | 5 |
| NUTRI | 251 | Nutrition in Healthcare | 5 |
| | | Total | 13 |

Second Quarter

| NURS | 104 | Nursing Care of Patients Across the Lifespan | 3 |
|------|-----|--|----|
| NURS | 105 | Application of Nursing Care | |
| | | of Patients Across the Lifespan | 5 |
| NURS | 106 | PSYC 106/Psychosocial Issues | |
| | | in Healthcare 1 ² | 2 |
| NURS | 110 | Pharmacology in Nursing Practice | 2 |
| | | Total | 12 |

| Third Qua | arter | | |
|-----------|-------|--|------------------|
| NURS | 111 | Nursing Care of the Acute Patient | 4 |
| NURS | 112 | Application of Nursing Care | ~ |
| NURS | 113 | of the Acute Patient PSYC 113/Psychosocial Issues | 5 |
| NORG | 115 | in Healthcare II ³ | 3 |
| | | Total | 12 |
| | | | |
| Fourth Q | | | ~ |
| NURS | 200 | Care of the Developing Family | 3 |
| NURS | 201 | Application of Care of the Developing Family | 3 2 3 3 |
| NURS | 202 | · · · · · · · · · · · · · · · · · · · | 3 |
| NURS | 203 | | 3 |
| NURS | 204 | Application of Care of | ~ |
| | | the Mental Health Patient | 2 13 |
| | | Total | 13 |
| Fifth Qua | rter | | |
| NURS | 205 | Nursing Care of the Critically III Patient | 5 |
| NURS | 206 | Application of Nursing Care of | |
| | | the Critically III Patient | 6 |
| NURS | 207 | PHIL 207/Ethics and Policy in Healthcare II ⁴ | 2 |
| | | Total | 13 |
| Sixth Qua | artor | | |
| NURS | 208 | Capstone Experience in Nursing | 6 |
| NURS | 208 | Leadership Principles in Nursing Care | 4 |
| NURS | 209 | Simulation in Nursing Practices | 2 |
| NUNU | 210 | 5 | 12 12 |
| | | 1 4 4 4 | . 2 |

135 credits are required for the Associate in Nursing DTA/MRP

- This prerequisite course must have been completed within the last five years with a 2.5 grade or higher. Because of the number of applicants for this program, the completion of all prerequisites does not ensure the admission into the program at the next available quarter.
- This nursing course is also considered part of the 15 credits required in the Social Sciences discipline. This course is cross-listed with PSYC 106.
- This nursing course is also considered part of the 15 credits required in the Social Sciences discipline. This course is cross-listed with PSYC 113.
- This nursing course is also considered part of the 15 credits required in the Humanities discipline. This course is crosslisted with PHIL 202 and PHIL 207.
- 5 This prerequisite course must have been completed within the last five years with a 2.5 grade or higher. Because of the number of applicants for this program, the completion of all prerequisites does not ensure the admission into the program at the next available quarter; this course may be substituted with other courses from the Humanities distribution area of the AA/DTA (except Philosophy).
- This prerequisite course must have been completed within the last five years with a 2.5 grade or higher. Because of the number of applicants for this program, the completion of all prerequisites does not ensure the admission into the program at the next available quarter; this course may be substituted with a higher level Chemistry class.

NURSING ASSISTANT CERTIFIED **Certificate: SCC**

Nursing assistants care for patients in hospitals, long-term care facilities, hospice, and in the home. This course introduces students to this fulfilling career, covering basic nursing assistant skills, patient and family relationships, health care teams and legal issues. CPR and HIV/AIDS training is included in this course.

This course prepares students to provide direct patient care in a variety of health care settings. The Nursing Assistant Certified

has direct contact with the patients and residents in these settings in the process of providing care for their basic daily needs. Students learn to recognize the patient's physical, social and emotional needs and to care for these patients and meet their needs in a caring manner.

Required: Background check and 100 percent attendance in lecture and clinical required to qualify to take the Nursing Assistant Certification exam.

Certificate **First Quarter** NURS 108 Nursing Assistant Certified 6 Total 6

6 credits are required for the Certificate

NURSING PRE-MAJOR Associate in Pre–Nursing DTA/MRP: SCC/SFCC

The Associate in Pre-Nursing DTA/MRP degree is a statewide articulated transfer degree agreement for nursing majors between the community colleges and most four-year institutions. Students will enter the four-year institution at junior standing. Admission to Washington four-year institutions' schools of nursing is not guaranteed to students holding a Pre-Nursing DTA/MRP degree. It is highly recommended that students meet with a counselor or academic adviser at Spokane Community College or Spokane Falls Community College on a regular basis to be sure that requirements specified in this degree are met. Students should also seek academic advising at the four-year institution to which they plan to transfer early in their educational planning to learn about additional requirements and procedures for admission. A candidate for the Associate in Pre-Nursing degree must complete 100-105 quarter credits in academic courses numbered 100 or above with a cumulative grade point average of at least 2.0 and meet specific distribution requirements. Courses must be chosen from the following distribution areas: communication -15 credits, quantitative/ symbolic reasoning -5 credits, humanities -15 credits, social sciences -20 credits, mathematics/science -40-45 credits, health-related and physical education/recreational and leisure activities -5 credits. At least 5 credits must be W-designated (writing intensive). At least 5 credits must be D-designated (global/diversity). PE activity courses are limited to a maximum of three credits for the entire degree. At least 30 credits must be earned in residence from Spokane Community College or Spokane Falls community College with at least 15 credits earned at the college awarding the degree. Prior college level credits and grade points are transferred for calculating total credits and GPA.

NOTE: Students should always check with the receiving university for additional requirements. Most have competitive admissions and require one year of residency at their institution.

Use this program outline in conjunction with the degree worksheet which shows a full course listing for each distribution area. Consult a counselor or academic adviser for recommended courses specific to student's choice of transfer institution.

Associate in Pre-Nursing DTA/MRP First Quarter

| Thot was | | | |
|----------|-----|---------------------------|----|
| CHEM& | 121 | Intro to Chemistry: w/Lab | 5 |
| ENGL& | 101 | English Composition I | 5 |
| HLTH | 174 | First Aid ¹ | 3 |
| | | Total | 13 |
| | | | |

| Second (| Quarte | er | |
|-------------------------|--------------|---|----------------|
| CHEM& ENGL& | 122 102 | | 5 5 |
| | | Health-Related/PE/Recreational/Leisure - Group B ¹ | 2 |
| | | Required Math: UW & Seattle University transfers | 0-5 |
| | | | 2–17 |
| Third Qu | | | |
| CHEM& | 123 | Intro to Biochemistry: w/Lab Humanities Group A, B or C ² | 5 5 |
| | | Quantitative/Symbolic Reasoning Requirement | 5 |
| | | Total | 15 |
| Fourth Q | uarte | | |
| BIOL& CMST& | 160 101 | | 5 5 |
| SOC& | 101 | Intro to Sociology ³ Total | 5 15 |
| | | i otai | 15 |
| Fifth Qua BIOL& | arter 241 | Human A & P 1 | 5 |
| PSYC& | 100 | General Psychology Humanities Group A, B or C ² | 5 5 |
| | | Total | 15 |
| Sixth Qu | | | |
| BIOL& BIOL& | 242 260 | Human A & P 2 Microbiology | 5 5 |
| PSYC& | 200 | Lifespan Psychology Total | 5 15 |
| • | . . | | 15 |
| Seventh NUTRI | Quart 251 | Nutrition in Healthcare | 5 |
| | | Humanities Group A, B or C ² Social Sciences - Group B Requirement ⁴ | 5 5 |
| | | Total | 15 |
| | | s are required for the Associate in Pre– | |
| Nursing | DTA/N | /RP | |
| Health-R ART | elateo | d/PE/Recreational/Leisure – Group A Health and Safety in Art | 1 |
| HLTH | 101 | Health and Wellness | 3 |
| HLTH HLTH | 104 174 | Stress Management First Aid | 3 3 |
| PE | 170 | Introduction to Physical Education | 2 |

Quantitative/Symbolic Reasoning Requirement MATH&

146 Introduction to Stats

and Recreation

Required Math: UW & Seattle University transfers MATH& 141 Precalculus I

- Minimum of 5cr and two courses are required. Minimum of one course from Group A. Minimum of one course from Group B. HLTH 174 may be substituted with any course in Group A.
- A total of 15cr required in 3 subject areas. Courses must be selected from Groups A, B, or C with no more than two from any one group. No more than 5cr in foreign language or ASL. Refer to Associate in pre-Nursing DTA/MRP degree worksheet for full list of courses and credit requirements in each distribution area.
- SOC& 101 may be substituted with SOC& 201.
- Refer to Associate in pre-Nursing DTA/MRP degree worksheet for full list of courses and credit requirements in each distribution area.

3

5

5

OCCUPATIONAL THERAPY ASSISTANT AAS: SFCC

The Associate in Applied Science Degree will prepare students for positions in the health and rehabilitation profession as Occupational Therapy Assistants. Occupational Therapy Assistants work under the direction of Occupational Therapists and provide services to patients and assist them in carrying out activities and exercises developed from a treatment plan. Occupational Therapy Assistants work with individuals in need of rehabilitation who have mental, physical, emotional or developmental impairments. The goal of the program is to provide students with the knowledge, skills, and experiences required of an Occupational Therapy Assistant. This includes the knowledge and competencies required by any health care professional as well as specific skills, knowledge and experiences specific to rehabilitation services.

The OTA program incorporates a selective process for admission. This process uses a point system based on coursework and experience as outlined in the application. Please be aware that the completion of all prerequisites does not ensure admission to the program.

ACOTE

www.spokanefalls.edu/TechProf/OccupationalTherapy/Home.as px?page=PV1&subpage=PV4

Admission Requirements

- Completion of the online Occupational Therapy Assistant Program Application Booklet. Applications are accepted during the winter quarter preceding fall quarter entry into the program. See the booklet for specific due dates. Entry into the program is only one time a year, Fall quarter.
- Appropriate placement scores in assessment tests for ENGL& 101 and Math.
- Preferably a minimum of 2.0 in BIOL& 241.
- Documentation of paid or volunteer experience in a medical setting (40 hour minimum volunteer hours under supervision of OT or OTA, students graded to 100 hours).
- Completion of 3 essay questions related to occupational therapy.
- Professional Reference (mailed separately to Dean's office).
- If application is complete, student will be required to participate in a group interview/activity session prior to selection.
- Upon acceptance, current immunizations and passing of physical examination, drug screening and Washington State Patrol criminal background check.

AAS

Prerequisites: – BIOL& 241 Human A & P 1 - ENGL& 101 English Composition I 1 – MATH 094 Algebra II 2 - PSYC& 100 General Psychology **First Quarter** Foundation of Occupational Therapy OTA 101 OTA 102 Occupational Therapy Terminology Regional Human Anatomy and Physiology OTA 106 OTA **OTA** Procedures 110 Activity Analysis OTA 111 OTA

OTA Procedures Lab 120 2 Total 15

Second Quarter

| ΟΤΑ | 103 | Applied Anatomy | 1 |
|-----|-----|---------------------------------|---|
| OTA | 104 | Survey of Pathophysiology | 5 |
| ΟΤΑ | 105 | Introduction to Neuroscience | 4 |
| OTA | 113 | Occupational Therapy Principles | 3 |
| | | | |

| ΟΤΑ | 123 | Applied Anatomy Lab Total | 2 15 |
|----------|--------|--|---------|
| Third Q | uarter | | |
| OTA | 107 | Human Development Through the Lifespan | 2 |
| OTA | 112 | Occupational Performance | |
| | | and Physical Disabilities | 3 |
| OTA | 114 | Therapeutic Activities | 3 |
| OTA | 122 | Occupational Performance | |
| | | and Physical Disabilities Lab | 2 |
| OTA | 124 | Therapeutic Activities Lab | 2 |
| OTA | 127 | Human Development Through | |
| | | the Lifespan Lab | 1 |
| OTA | 151 | Level I Clinical Fieldwork I | 1 |
| OTA | 161 | Level I Clinical Fieldwork I Seminar | 1 |
| | | Total | 15 |
| Fourth (| Quarte | r | |

Group Dynamics OTA 2 202 Management for the Occupational Therapist 2 OTA 203 OTA 210 Occupational Performance and Mental Health 3 Occupational Performance and Children OTA 212 3 OTA 220 Occupational Performance and Mental Health Lab 2 232 Group Dynamics Lab OTA 1 OTA 242 Occupational Performance and Children Lab 2 Level I Clinical Fieldwork II OTA 251 1 Level I Clinical Fieldwork II Seminar OTA 261 1 Total 17

Fifth Quarter

| OTA | 201 | Issues in Occupational Therapy | |
|---------|--------|--|----|
| | | and Health Care | 2 |
| OTA | 221 | Occupational Performance and Aging | 3 |
| ΟΤΑ | 231 | Occupational Performance and Aging Lab | 2 |
| ΟΤΑ | 252 | Level I Clinical Fieldwork III | 1 |
| OTA | 253 | Level II Clinical Fieldwork I | 6 |
| OTA | 263 | Fieldwork II Seminar | 1 |
| | | Total | 15 |
| Sixth Q | uarter | | |
| OTA | 253 | Level II Clinical Fieldwork I | 4 |
| OTA | 254 | Level II Clinical Fieldwork II | 10 |
| OTA | 263 | Fieldwork II Seminar | 1 |
| | | Total | 15 |

92 credits are required for the AAS

- ENGL& 101 may be substituted with ENGL 105 or ENGL& 235.
- MATH 094 may be substituted with MATH 092, MATH 096, MATH& 107 or BUS 103.

OCEANOGRAPHY PRE-MAJOR AA-DTA, Associate in Biology DTA/MRP: SCC/SFCC

Oceanography encompasses all the sciences, thus courses in geology, biology, chemistry and physics are useful. Practicing oceanographers tend to specialize by emphasizing one of these sciences and thus become biological oceanographers, chemical oceanographers, etc. During the first two years of college. students planning a career in oceanography should complete general college requirements and acquire a strong background in mathematics and science.

AA-DTA

3

1

5

1

3

1

| Suggested Courses to Consider ¹ | 90 |
|--|----|
| Total | 90 |

90 credits are required for the AA–DTA

Associate in Biology DTA/MRP

Suggested Courses to Consider ¹ Total 90

90

90 credits are required for the Associate in Biology DTA/MRP

¹ Consult a counselor or academic adviser for recommended courses specific to student's choice of transfer institution.

OFFICE ASSISTANT Certificate: SFCC

The Office Assistant Certificate is a three–quarter program of study. Students may participate in online or on–ground classes. This certificate prepares students for entry–level positions in a business or office where utilizing many applications is required. Students gain knowledge in preparation of typical business documents, bookkeeping procedures, file management, Internet usage, and electronic calendaring. Students are prepared to perform general business and office duties including formatting correspondence, receiving telephone calls, composing effective written messages, and using positive customer service.

Certificate

| First Qua BT BT BUS CAPPS GENST | 101 155 122 100 | Practical Business Math | 5 3 2 2 15 |
|--|----------------------------|--|-------------------------------|
| Second C BT CAPPS | 102 | Document Processing | 5 2 4 5 16 |
| Third Qu BT BT BT | arter 160 231 272 | Job Preparation Techniques Office Procedures Business Correspondence Computation Elective Total | 3 5 5 3 16 |
| 47 credits | s are i | required for the Certificate | |
| CAPPS CAPPS CAPPS CAPPS CAPPS | 141 151 | Word I Excel I | 2 2 2 2 |
| Commun BT ENGL& | | n Elective Business Communications English Composition I | 5 5 |
| Computa ACCT& BUS BUS | 201 122 | Elective Prin of Accounting I Practical Business Math Practical Business Math Applications | 5 3 5 |
| | - | | |

AAS, Certificate: SFCC

Orthotics and Prosthetics is the design and fabrication of braces and artificial limbs and is one of today's rapidly growing health– related professions. Advancing materials technology and an increasing demand for orthotic–prosthetic services has led to an increase in the amount of technical support needed. There are many opportunities for the students completing a formal training program in orthotics and prosthetics.

The primary objective is to train students in the general fabrication procedures of orthotic and prosthetic devices, which include working with plastic, metal, leather, plaster, and orthotic and prosthetic components. Subjects covered include related human anatomy, technology of materials, hand and power tools, equipment, and laboratory safety.

A certificate is awarded at the completion of the Orthotics program and at the completion of the Prosthetics program. An associate in applied science degree in Orthotics and Prosthetics is granted to students who successfully complete both programs.

AAS General Education Courses¹ 18 Total 18 **First Quarter** OR-PR Prosthetic Tools and Materials 4 111 OR-PR Related Human Anatomy 3 112 OR-PR **Below Knee Prosthetics** 114 10 Total 17 Second Quarter OR-PR 122 Related Anatomy of the Above Knee Amputation 3 OR-PR 124 Advanced Below Knee Prosthetics 4 OR-PR 126 Above-the-Knee Prosthetics 10 Total 17 **Third Quarter** 2 OR-PR 132 Related Anatomy (Upper Extremity) OR-PR **Below Elbow Prosthetics** 8 134 OR-PR Above Elbow Prosthetics 136 7 Total 17 Fourth Quarter OR-PR **Clinical Prosthetics** 6 138 Total 6 **Fifth Quarter** OR-PR Orthopedic Equipment and Materials 141 4 OR-PR 142 Spinal Anatomy Related to Orthotics 3 OR-PR Spinal Orthotics 144 10 Total 17 Sixth Quarter OR-PR Foot and Ankle Skeletal Structure 3 152 OR-PR 154 **Orthotic Shoe Fabrications** 4 OR-PR 156 Ankle-Foot Orthosis 10 Total 17 Seventh Quarter OR-PR 162 Related Anatomy for the Above Knee Orthotics 1 OR-PR 164 Above the Knee Orthotics 8 OR-PR 172 Upper Extremity Anatomy Related to Orthotics 1 OR-PR 174 Upper Extremity Orthotics 7 Total 17 **Eighth Quarter** OR-PR 178 **Clinical Orthotics** 6 Total 6

132 credits are required for the AAS

| | | tion Courses | - |
|---------------------------------|---------------------|--|---------------|
| BT BUS | 107 103 | Business Communications Basic Business Math | 5 |
| 000 | 100 | and Electronic Calculators | 5 |
| CMST | 121 | Job Communication Skills | 2 |
| HLTH | 174 | | 3 |
| HS | 136 | Improving Interpersonal Communication | 5 |
| MATH | 035 | The Metric System | 1 |
| ¹ A total of the AAS | | general education course credits are require ee. | ed for |
| Orthotics | Certi | | |
| | | General Education Courses ¹ Total | 9 9 |
| First Qua | | | |
| OR-PR OR-PR | 141 142 | Orthopedic Equipment and Materials | 4 |
| OR-PR | 142 | Spinal Anatomy Related to Orthotics Spinal Orthotics | 3 10 |
| ORTR | 177 | Total | 17 |
| Second C | luarte | r | |
| OR-PR | 152 | | 3 |
| OR-PR | 154 | | 4 |
| OR-PR | 156 | Ankle-Foot Orthosis Total | 10 17 |
| | | | |
| Third Qua OR-PR | arter 162 | Related Anatomy for | |
| | 102 | the Above Knee Orthotics | 1 |
| OR-PR | 164 | Above the Knee Orthotics | 8 |
| OR-PR | 172 | Upper Extremity Anatomy Related | |
| | 474 | to Orthotics | 1 |
| OR-PR | 174 | Upper Extremity Orthotics Total | 7 17 |
| Fourth Q | | | _ |
| OR-PR | 178 | Clinical Orthotics Total | 6 6 |
| 66 credite | aro r | equired for the Certificate | |
| | | - | |
| | | tion Courses | _ |
| BT BUS | 107 103 | Business Communications Basic Business Math | 5 |
| 000 | 105 | and Electronic Calculators | 5 |
| CMST | 121 | Job Communication Skills | 2 |
| HLTH | 174 | First Aid | 3 |
| HS MATH | 136 035 | Improving Interpersonal Communication The Metric System | 5 1 |
| | | eneral education course credits are required | • |
| certifica | ite. | | |
| Prostheti | cs Ce | | |
| | | General Education Courses ¹ Total | 9 9 |
| | | | |
| First Qua OR-PR | rter 111 | Prosthetic Tools and Materials | л |
| OR-PR | 112 | Related Human Anatomy | 4 |
| OR-PR | 114 | Below Knee Prosthetics | 10 |
| | | Total | 17 |
| | | | |
| Second C | luarte | r | |
| Second C OR-PR | uarte 122 | Related Anatomy of | |
| OR-PR | 122 | Related Anatomy of the Above Knee Amputation | 3 |
| OR-PR OR-PR | 122 124 | Related Anatomy of the Above Knee Amputation Advanced Below Knee Prosthetics | 4 |
| OR-PR | 122 | Related Anatomy of the Above Knee Amputation | |

| Third Qu OR-PR OR-PR OR-PR | 132 134 | Below Elbow Prosthetics | 2 8 7 17 |
|--|------------|--|--------------------------|
| Fourth G | | | |
| OR-PR | 138 | Clinical Prosthetics Total | 6 6 |
| 66 credit | ts are | required for the Certificate | |
| General | Educa | tion Courses | |
| BT | | Business Communications | 5 |
| BUS | 103 | Basic Business Math | |
| | | and Electronic Calculators | 5 |
| CMST | | Job Communication Skills | 2 |
| HLTH | | First Aid | 3 |
| HS | | Improving Interpersonal Communication | 5 1 |
| MATH | 035 | The Metric System | ſ |
| a certi | ficate. | eneral education course credits are required | l for |
| PARALE AAS, Ce | | te: SCC | |
| This regi | onally | respected ABA approved program consists | of |

This regionally respected ABA approved program consists of basic and specialty courses designed to prepare students for employment in the legal services field. An AAS degree is awarded after completion of 95–103 credits of required coursework (depending on the math requirement). If full class loads are taken each quarter, the program requires 6–8 quarters to complete. Most specialty classes are taught early morning or evening. The supervised legal work experience required for graduation or the internship must be approved by the program coordinator. Ask a counselor or faculty adviser about transfer articulation agreements with four–year institutions.

Note: A Paralegal graduate does not receive a license to practice law; thus performing legal work directly for the public or giving legal advice directly to the public constitutes the unauthorized practice of law.

Students working toward the AA degree for transfer to a fouryear institution should consult individually with an adviser or counselor for planning the AA degree program. For information on AA degree requirements, refer to the Degree and Certificate Requirements section of this catalog. More information on specific transfer programs can be found in the academic programs section of this catalog. A grade of 2.0 or higher in each class (including prerequisites) is required for both the AAS degree and the Certificate degree.

Students should begin early to meet the prerequisites for LA 120 Law Office Computing, which are 2 approved college level computer classes. Notice to students: There is a difference between how the college structures its classes and credits (five credit quarter model) and the American Bar Association's minimum credit requirements for approved programs with respect to General Education courses (semester model credits converted to SCC's quarter system). Generally the result is a student will be required to complete 30 credits of General Education (GE) classes to fulfill the student's 27 GE credit minimum as required by the ABA.

To enter the Paralegal Certificate program, students must have completed an A.A. degree or an A.A.S. degree in Legal Secretary and/or an A.A.S. degree in Legal Administrative Assistant and/or a B.A. degree and/or a B.S. degree from an accredited college and/or university. AAS

Prerequisites:

| – BT | 272 | Business Correspondence |
|------|-----|-------------------------|
|------|-----|-------------------------|

| Basic Courses ² | 31 |
|---|--------|
| General Education Courses ² | 27-30 |
| Other Courses ² | 0-5 |
| Specialty Courses-AAS ³ | 29 |
| Supervised Legal Work Experience ⁴ | 8 |
| Total | 95–103 |

95-103 credits are required for the AAS

Basic Courses

| Dasic Co | urses | | |
|-----------|------------|---|-------------|
| BUS | 204 | | 5 |
| LA | 100 | Legal Careers Orientation | 1 |
| LA | 101 | Introduction to Paralegalism | 2 |
| LA | 105 | Washington and Idaho Court Rules | 3 |
| LA | 110 | Legal Research and Writing | 5 |
| LA | 118 | Instrument Drafting | 3 |
| LA | 120 | Law Office Computing | 5 |
| LA | 125 | Law Office Procedures and Technology | 3 |
| LA | 130 | Legal Ethics | 3 |
| LA | 135 | Professional Effectiveness | 1 |
| General I | Educa | tion Courses | |
| ENGL& | 101 | English Composition I | 5 |
| MATH& | 107 | Math in Society | 5 |
| Other Co | urses | | |
| BUS | 104 | | 5 |
| Specialty | | ses-AAS | |
| ACCT | 151 | | 5 |
| ACCT& | 201 | | 5 |
| HED | 104 | 5 | 5 |
| HED | 104 | | 5 |
| LA | 201 | Introduction to Probate | 3 |
| LA | 205 | Contracts | 3 |
| LA | 203 | | 3 |
| LA | 211 | Debtor-Creditor and Bankruptcy | 3 |
| LA | 215 | | 3 3 3 |
| LA | 217 | Business Organizations | 3 |
| LA | 218 | Employment Law | 3 |
| LA | 219 | Criminal Law and Procedure | 3 3 |
| LA | 220 | Torts | 3 |
| LA | 221 | Property and Real Estate Transactions I | 3 |
| LA | 223 | Interview and Investigation Techniques | 3 |
| LA | 225 | Trial Preparation and Procedures | 3 |
| LA | 230 | Insurance Law | 3 |
| LA | 240 | Special Issues Seminar | 1-10 |
| | 240 | | 1 10 |
| LA | 240 285 | Legal Office Internship | 1-3 |

Supervised Legal Work Experience

| LA | 245 | Supervised Legal Work Experience |
|----|-----|----------------------------------|

8

ΙΔ

- ¹ Prior to acceptance into the course of study leading to the AAS degree in paralegal studies, students must either receive a 2.0 grade or better in BT 272 OR a 2.0 grade or better in ENGL& 101 English Composition as a functional substitution (program coordinator discretion) for BT 272.
- ² See department program coordinator for additional list of courses. English& 101 is a prerequisite for LA 110, but is not a requirement for the certificate program.
- ³ Specialty courses must total 29 credits for the AAS degree.
- ⁴ Students must complete 8 credits.
- ⁵ BUS 204 is required for the AAS degree only.
- ⁶ Prerequisites are ENGL& 101 and LA 101.
- ⁷ Prerequisites are LSEC 239 and a college–level computer course recommended to be selected from the BT, CIS, or LSEC departments' offerings.

- ⁸ MATH& 107 may be substituted with other courses selected from a list provided by the instructor.
- ⁹ If the student chooses BUS 104 as a math requirement, students must complete an additional 5 credits from the list of communication, social science, or humanities electives.
- ¹⁰ ACCT& 201 may be substituted with ACCT 151.
- ¹¹ Prerequisites for all Legal Specialty Courses: LA 100.
- ¹² Because each course is different, LA 240 may be repeated as frequently as desired and all credits received may be applied toward the specialty credit requirements for this degree.
- ¹³ Maximum of 3 credits of internship may be applied toward this degree.

Certificate

| 26 |
|-------|
| 10 |
| 0-5 |
| 24 |
| 8 |
| 68–73 |
| |

68-73 credits are required for the Certificate

Basic Courses

| BUS LA LA LA LA LA LA LA LA LA LA | 204 100 101 105 110 118 120 125 130 135 | Introduction to Law Legal Careers Orientation Introduction to Paralegalism Washington and Idaho Court Rules Legal Research and Writing Instrument Drafting Law Office Computing Law Office Procedures and Technology Legal Ethics Professional Effectiveness | 5 1 2 3 5 3 5 3 3 1 |
|---|--|---|--|
| General I | Educa | tion Courses | |
| ENGL& | 101 | English Composition I | 5 |
| MATH& | 107 | Math in Society | 5 |
| Other Co | urses | | |
| BUS | 104 | Business Mathematics | 5 |
| Specialty | | ses-Certificate | |
| ACCT | 151 | | 5 |
| ACCT& | 201 | | 5 |
| BUS | 201 | Introduction to Law | 5 |
| HED | 204 104 | | 5 |
| HED | 104 | Medical Terminology and Anatomy Medical Terminology and Anatomy | 5 |
| LA | 201 | Introduction to Probate | 5 |
| LA | 201 | Contracts | 2 |
| LA | 205 | Domestic Relations and Estate Law | 2 |
| LA | 207 | Debtor-Creditor and Bankruptcy | 2 |
| LA | 215 | Commercial Transaction | 3 3 3 3 3 |
| LA | 213 | Business Organizations | 2 |
| LA | 217 | Employment Law | 3 |
| LA | 210 | Criminal Law and Procedure | 3 |
| LA | 220 | Torts | 3 3 3 3 3 3 3 3 3 3 |
| LA | 221 | Property and Real Estate Transactions I | 3 |
| LA | 223 | Interview and Investigation Techniques | 3 |
| LA | 225 | Trial Preparation and Procedures | 3 |
| LA | 230 | Insurance Law | 3 |
| LA | 240 | Special Issues Seminar | 1-10 |
| LA | 285 | Legal Office Internship | 1-3 |
| | _00 | | . 5 |

Supervised Legal Work Experience

245 Supervised Legal Work Experience

¹ 5 credits in Social Science and/or Humanities are required for the Certificate program only. Please see department program coordinator for additional list of courses.

8

- ² If the student chooses BUS 104 as a math requirement, student must complete an additional 5 credits from the list of communication, social science, or humanities electives.
- ³ Prerequisites for all Legal Specialty Courses: LA 100.
- ⁴ Students must complete 8 credits.
- ⁵ Basic courses must total 26 credits for the certificate. Students may only enroll in BUS 204 once for 5 credits. BUS 204 may be selected as a part of either the basic courses group OR the specialty courses groups, but not both.
- ⁶ Prerequisites are ENGL& 101 and LA 101.
- ⁷ Prerequisites are LSEC 239 and a college–level computer course recommended to be selected from the BT, CIS, or LSEC departments' offerings.
- ⁸ See department program coordinator for additional list of courses. English& 101 is a prerequisite for LA 110, but is not a requirement for the certificate program.
- ⁹ MATH& 107 may be substituted with other courses selected from a list provided by the instructor.
- ¹⁰ ACCT& 201 may be substituted with ACCT 151.
- ¹¹ Specialty courses must total 24 credits for the certificate. Students may only enroll in BUS 204 once for 5 credits. BUS 204 may be selected as a part of either the basic courses group OR the specialty courses groups, but not both.
- ¹² Because each course is different, LA 240 may be repeated as frequently as desired and all credits received may be applied toward the specialty credit requirements for this degree.
- ¹³ Maximum of 3 credits of internship may be applied toward this degree.

PHARMACY PRE-MAJOR AA-DTA, Associate in Biology DTA/MRP: SCC/SFCC

Pharmacists have a vast number of career opportunities including community and hospital pharmacies, manufacturing industry, medical representatives, sales people and researchers. Pharmacists must be scientifically motivated and be able to work with orderliness and precision. Pharmacists are university graduates who have successfully completed the state pharmacy board examination and have a license to practice.

AA-DTA

| Suggested Courses to Consider ¹ Total | | |
|---|--|--|
| | | |

90 credits are required for the AA-DTA

| Associate in Biology DTA/MRP | |
|--|----|
| Suggested Courses to Consider ¹ | 90 |
| Total | 90 |

90 credits are required for the Associate in Biology DTA/MRP

¹ Consult a counselor or academic adviser for recommended courses specific to student's choice of transfer institution.

PHARMACY TECHNICIAN AAS, Certificate: SCC

The Pharmacy Technician program trains students in all phases of the pharmacy field: drug products, calculations, dosages, dispensing techniques, inventory management, and Washington pharmacy law. Graduates will be prepared to work in both community and hospital pharmacy settings.

Each required course for graduation must be completed with a 2.0 grade or better before proceeding to the next quarter and must be maintained in all classes. The student may enroll in liberal arts either preceding or following the professional curriculum. For an associate in applied science degree, the student must complete 25 credit hours of required courses and

7 hours of department approved electives numbered 100 or above in addition to the one-year professional curriculum.

Admission Prerequisite Requirements:

- High school diploma or GED certificate
- Washington State Patrol (WSP) background check
- Typing test with a score of 35–40 wpm or completion of BT 106 within the last 5 years
- Interview with pharmacy technician instructor
- Three letters of recommendation
- Appropriate scores on one of the following: ASSET or COMPASS
- Students may repeat a pharmacy technician class once, but it must be repeated within two years
- Each required course for graduation must be completed with a 2.0 grade or better before proceeding to the next quarter
- If the student does not pass a winter quarter class and has to repeat the class the next year, they must also pass the technique skills for the lab portion of PHARM 123 and 124.

AAS

| - | | Electives ¹ Required Courses for AAS Degree Total | 7 25 32 |
|--|-------------------|---|------------------------------------|
| First Qua HED HED PHARM PHARM PHARM | 108 125 101 | , | 5 5 3 5 3 21 |
| Second C | luarte | er | |
| CMST& | 210 | | 5 |
| PHARM | 122 | | 5 |
| PHARM | 123 | Hospital Pharmacy Dispensing | - |
| PHARM | 124 | and Management Community Pharmacy Dispensing | 5 |
| | 124 | and Management | 3 |
| PHARM | 131 | Pharmacy Law and Ethics Total | 3 21 |
| | | lotal | 21 |
| Third Qua | arter | | |
| ENGL | 189 | Writing for Vocational Students ⁵ | 2 |
| HED | 121 | Cultural Diversity in Health Care | 1 |
| PHARM | | Entering the Work Environment | 2 |
| PHARM | - | Community Pharmacy | 6 |
| PHARM | 133 | Hospital Pharmacy Total | 6 17 |
| 91 credits | s are i | required for the AAS | |
| | - | | |

Required Courses for AAS Dearee

| CIS | • | 110 | Introduction to Computer Applications | 5 |
|-----|-----|-----|---------------------------------------|---|
| CMS | ST | 227 | Intercultural Communication | 5 |
| ENC | GL& | 101 | English Composition I | 5 |
| PSY | /C& | 100 | General Psychology | 5 |
| SOC | C& | 101 | Intro to Sociology | 5 |
| | | | | |

Departmentally approved elective numbered 100 or above.

- ² May be substituted with MEDA 110 or BIOL& 175 or BIOL& 241 and BIOL & 242 (Olympic College)
- 241 and BIOL& 242 (Olympic College).
- ³ May be substituted with MEDA 162 (Olympic College).
- May be substituted with OLRM 220 (Olympic College).
- May be substituted with ENGL& 101 or ENGL& 102.

Certificate

| First Quarter | | | | |
|---------------|-----|----------------------------------|---|--|
| HED | | Human Anatomy ¹ | 5 | |
| HED | 125 | Medical Terminology ² | 5 | |

| PHARM | 101 | · · · · · · · · · · · · · · · · · · · | 3 |
|----------|--------|--|----|
| PHARM | 115 | Mathematics for Pharmacy Technicians | 5 |
| PHARM | 119 | Pharmacology | 3 |
| | | Total | 21 |
| Second C | Quarte | er | |
| CMST& | 210 | Interpersonal Communication | 5 |
| PHARM | 122 | Advanced Pharmacology | 5 |
| PHARM | 123 | Hospital Pharmacy Dispensing | |
| | | and Management | 5 |
| PHARM | 124 | Community Pharmacy Dispensing | |
| | | and Management | 3 |
| PHARM | 131 | Pharmacy Law and Ethics | 3 |
| | | Total | 21 |
| Third Qu | arter | | |
| ENGL | 189 | Writing for Vocational Students ⁴ | 2 |
| HED | 121 | Cultural Diversity in Health Care | 1 |
| PHARM | 130 | Entering the Work Environment | 2 |
| PHARM | 132 | Community Pharmacy | 6 |
| PHARM | 133 | Hospital Pharmacy | 6 |
| | | Total | 17 |
| | | | |

59 credits are required for the Certificate

¹ May be substituted with MEDA 110 or BIOL& 175 or BIOL& 241 and BIOL& 142 (Olympic College).

² May be substituted with MEDA 162 (Olympic College).

³ May be substituted with OLRM 220 (Olympic College).

⁴ May be substituted with ENGL& 101 or ENGL& 102.

PHILOSOPHY PRE-MAJOR AA-DTA: SCC/SFCC

Philosophy is the study of fundamental intellectual problems concerning reality, knowledge, reason, and value, and classical and contemporary attempts at their solution. It is hoped that the reading of classical treatments will make the student sensitive to the problems in their historic dimensions and that knowledge of related contemporary literature will encourage students to participate in the development of their own critical faculties.

AA-DTA

| Suggested Courses to Consider ¹ | 90 |
|--|----|
| Total | 90 |

90 credits are required for the AA-DTA

Consult a counselor or academic adviser for recommended courses specific to student's choice of transfer institution.

PHOTOGRAPHY AAS: SFCC

Founded in 1965, the photography program at Spokane Falls Community College is an intensive two–year study of visual communications. Students explore career opportunities in commercial photography and multimedia production and have opportunities to interact with industry through field trips, guest speakers and cooperative work experiences.

First-year students learn the fundamentals of lighting and composition while surveying career fields. Second-year students complete projects with real world scenarios and focus on prevailing trends in the world of digital media production.

In addition to teaching technical skills and artistic design, the program stresses positive work habits and helps students develop personal career goals.

With guidance from an advisory committee made up of employers and working professionals, the photography program is constantly updated to reflect current industry standards.

| AAS | | | |
|----------------|------------|--|---------------------|
| First Qua | | | _ |
| PHOTO PHOTO | 101 126 | Introduction to Photography Digital Photography | 5 5 |
| 111010 | 120 | Communication Elective | 5 |
| | | Total | 15 |
| Second | Quarte | ar | |
| PHOTO | 111 | Studio Photography I | 4 |
| PHOTO | | Photographic Design | 4 |
| PHOTO | 115 | Photography Lab II Human Relations/Leadership Elective | 3 5 |
| | | Total | 16 |
| Third Qu | ortor | | |
| ART | 105 | Color and Design | 5 |
| PHOTO | 102 | Photographic Appreciation | 2 |
| PHOTO | 121 | Location Photography I | 4 |
| PHOTO PHOTO | 125 133 | Photography Lab III Color Lab | 3 3 |
| 111010 | 100 | Total | 17 |
| Fourth Q | uarte | r | |
| PHOTO | | | 4 |
| PHOTO | | Professional Business Practices 1 | 3 |
| PHOTO PHOTO | 232 233 | Portraiture Location Photography II | 4 4 |
| | 200 | Photography Approved Electives | 3-4 |
| | | Total | 18–19 |
| Fifth Qua | arter | | |
| PHOTO | - | Portfolio Development I | 3 |
| PHOTO PHOTO | | Professional Business Practices II Studio Photography II | 3 4 |
| 111010 | 201 | Computation Elective | 5 |
| | | Photography Approved Electives | 3-5 |
| | | Total | 18–20 |
| Sixth Qu | | | |
| PHOTO PHOTO | - | Portfolio Development II Fashion Photography | 3 4 |
| PHOTO | 266 | Cooperative Education Seminar | 4 |
| PHOTO | 267 | Cooperative Education Work Experience | 2 |
| | | Photography Approved Electives Total | 3-5 13–15 |
| | | lotal | 13-13 |
| 97-102 c | redits | are required for the AAS | |
| Commur | nicatio | on Elective | |
| BT | - | Business Communications | 5 |
| BT ENGL& | 108 101 | Business Communications English Composition I | 3 5 |
| JOURN | | | 5 |
| Computa | ation F | Elective | |
| ACCT | 141 | QuickBooks | 5 |
| BUS | | Practical Business Math Applications | 5 |
| MATH& | 107 | Math in Society | 5 |
| | | ons/Leadership Elective | |
| BUS | 280 | Human Relations in Business | 5 |
| CMST& CMST& | 101 210 | Introduction to Communication Interpersonal Communication | 5 5 |
| CMST& | - | Public Speaking | 5 |
| HS | 136 | Improving Interpersonal Communication | 5 |
| MMGT | 404 | | |
| | 101 100 | Principles of Management | 5 5 |
| PSYC& | 101 100 | General Psychology | 5 5 |

1.001.000

| Photography Approved Electives | | | | |
|--------------------------------|-----|---|------------------|--|
| ART | 127 | Visual Arts Special Workshops | 1-15 | |
| ART | 189 | Printmaking | 4 | |
| ART | 191 | Screen Printing | 4 | |
| ART | 192 | Printmaking, Intaglio | 4 | |
| GRDSN | 129 | Digital Studio | 2 | |
| GRDSN | 156 | Illustrator I | 2 | |
| GRDSN | 158 | PhotoShop I | 2 | |
| GRDSN | 162 | MacIntosh OS X | 2 | |
| GRDSN | 163 | InDesign I | 2 | |
| GRDSN | 164 | Illustrator II | 2 | |
| GRDSN | 166 | PhotoShop II | 2 | |
| GRDSN | 167 | Fireworks | 2 2 2 2 | |
| GRDSN | 168 | InDesign II | 2 | |
| GRDSN | 171 | Flash | 2 | |
| GRDSN | 172 | Dreamweaver | 2 | |
| GRDSN | 173 | Flash II | 2 | |
| GRDSN | 174 | Dreamweaver II | 2 | |
| GRDSN | 175 | After Effects | 2 2 2 2 | |
| GRDSN | 176 | Introduction to Page Design | | |
| GRDSN | 200 | Graphic Design Workshop | 1-5 | |
| JOURN | 101 | College Newspaper Production I | 3-5 | |
| JOURN | 102 | College Newspaper Production II | 3-5 | |
| JOURN | 103 | College Newspaper Production III | 3-5 | |
| JOURN | 221 | Digital News Production I | 3 | |
| JOURN | 222 | Digital News Production II | 3 | |
| JOURN | 223 | Digital News Production III | 3 | |
| JOURN | 225 | Multimedia Journalism | 5 | |
| PHOTO | 120 | Photographic Arts | 3 | |
| PHOTO | 131 | Introduction to Photojournalism | 3 | |
| PHOTO | 132 | Advanced Black and White Photography | 3 | |
| PHOTO | 235 | Nature and Landscape Photography | 5 | |
| PHOTO | 236 | Photography Workshop | 1-4 | |
| PHOTO | 237 | Introduction to Documentary DV Production | | |
| PHOTO | 240 | Large Format Photography | 4 | |
| PHOTO PHOTO | 247 | HDSLR Filmmaking | 5 1-5 | |
| FIUIU | 267 | Cooperative Education Work Experience | 1-5 | |

If BT 107 is taken as the communication elective, student must take BT 108 for a total of 6 credits of communication elective.

In addition to listed electives, student may select independent study with approval of program instructor.

PHYSICAL THERAPIST ASSISTANT AAS: SFCC

SFCC offers a two-year program which includes study in anatomy and physiology, social science, technical physical therapy courses and practical clinical experience in area health care facilities affiliated with the college. The program is accredited by the Commission on Accreditation in Physical Therapy Education of the American Physical Therapy Association (APTA). The technical courses for the Physical Therapist Assistant (PTA) program are not designed to transfer to four-year schools.

Physical therapist assistants duties include: a) designing exercise programs and treatments that are within the plan of care proposed by the physical therapist b) training patients to use special equipment that will make life easier; c) applying equipment such as electrical stimulation and ultrasound which decrease pain and increase functions; and d) keeping records and reporting to the physical therapist on the patient's progress.

Physical therapist assistants work with all ages and are employed in a wide variety of settings, including hospitals, rehabilitation centers, pediatric facilities or school systems, private physical therapy clinics, home health care agencies, and extended care facilities. A national licensing examination is required for most states in order to practice as a physical therapist assistant.

Admission Requirements:

- Completion of the physical therapist assistant program application booklet which is available at the SFCC counseling center. Applications are accepted during the winter quarter preceding fall quarter entry into the program.
- Appropriate placement scores in assessment tests for ENGL& 101 and Math.
- Preferably a minimum of 2.0 in BIOL& 241
- Documentation of either paid or volunteer experience in a medical setting (preferably physical therapy).
- Current immunizations, drug screening and Washington State Patrol criminal background check.
- Essential requirements needed for the profession which include communication skills, cognitive demands, physical skills and behavioral, social and professional skills are discussed in greater detail in the Program Information Booklet located on our website.

The PTA program incorporates a selective process for admission. This process uses a point system based on coursework and experience as outlined in the application. Please be aware that the completion of all prerequisites does not ensure admission to the program.

AAS

Prereauisites: - BIOL& 241 Human A & P 1

| ENGL& MATH PSYC& | 094 | English Composition I ² Algebra II ² General Psychology ² Total | 5 5 5 15 | |
|------------------------|-----|--|--------------------------|--|
| First Quarter | | | | |

First Quarter PTA 101 Introduction to Physical Therapy 3 Physical Therapy Terminology PTA 102 1 PTA 106 Regional Human Anatomy and Physiology 5 PTA 110 PTA Procedures I: Basic PT Procedures Seminar 3 PTA 170 PTA Procedures I: Basic PT Procedures Lab 4 Total 16

| Second | Quarte | er | |
|--------|--------|------------------------------|----|
| PTA | 103 | Applied Anatomy | 3 |
| PTA | 104 | Survey of Pathophysiology | 5 |
| PTA | 105 | Introduction to Neuroscience | 4 |
| PTA | 173 | Applied Anatomy Lab | 3 |
| | | Total | 15 |

| Third Q | uarter | | |
|----------|---------|--|----|
| PTA | 111 | PTA Procedures II: PT Modalities Seminar | 3 |
| PTA | 112 | PTA Procedures III: | |
| | | Functional Restoration Seminar | 3 |
| PTA | 151 | Clinical Experience I | 2 |
| PTA | 171 | PTA Procedures II: PT Modalities Lab | 4 |
| PTA | 172 | PTA Procedures III: | |
| | | Functional Restoration Lab | 4 |
| | | Total | 16 |
| Fourth (| Quarter | | |

Fourth G PTA 202 Introduction to Orthopedics 3 PTA Procedures IV: PTA 210 Therapeutic Exercise Seminar 3 PTA Procedures VI: PTA 212 Pediatric Rehab Seminar 2 Clinical Experience II PTA 251 1 PTA 254 **Clinical Seminar II** 1 PTA Procedures IV: 270 PTA Therapeutic Exercise Lab 4 PTA 272 PTA Procedures VI: Pediatric Rehab Lab 2 Total 16

| Fifth Qua | arter | | |
|-----------|-------|--|----|
| PTA | 201 | Issues in Physical Therapy and Health Care | 2 |
| PTA | 211 | PTA Procedures V: | |
| | | Rehab Applications Seminar | 3 |
| PTA | 252 | Clinical Experience III | 3 |
| PTA | 255 | Clinical Seminar III | 1 |
| PTA | 271 | PTA Procedures V: Rehab Applications Lab | 4 |
| | | Total | 13 |
| | | | |
| Sixth Qua | arter | | |
| PTA | 253 | PTA Clinical Affiliation | 12 |
| | | Total | 12 |

103 credits are required for the AAS

- ¹ Must have been taken within the last five years and completed with a 2.0 grade or better. Coursework older than five years will be evaluated on a case-by-case basis. Even though BIOL& 160 is not a prerequisite for BIOL& 241 for PTA students, it is recommended. You must contact Loren Pemberton in the counseling center at (509) 533–3503 (Loren.Pemberton@spokanefalls.edu) in order to waive BIOL& 160 as a prerequisite for BIOL& 241.
- ² Admission preference is given to students who complete these courses prior to entry into the program. May be substituted with approval of program chair. Credits may be taken during summer between first and second year. Credits from these courses are included in the total credits for degree.
- ³ MATH 092 or MATH 096 may be substituted for MATH 094. The COMPASS test must be taken to determine eligibility.

PHYSICS PRE-MAJOR AA-DTA, AS-T 2: SCC/SFCC

Physics is the science dealing with the properties, changes and interactions of matter and energy. It is the study of basic natural laws.

Physicists work in research at many industrial centers; they are employed by government agencies at all levels. Educational institutions provide career opportunities for physics graduates. Students pursuing a major in physics will also study mathematics and other sciences such as chemistry, astronomy, etc.

The Associate degree (AA–DTA and AS–T #2) is an articulated transfer agreement for physics majors between community colleges and most four-year institutions within the state of Washington. Either degree shall only be granted to students who have earned a cumulative grade point average of 2.0. Students will enter the four-year institution at or near junior standing. Admission to Washington four-year institutions' schools is not guaranteed to students holding either degree. It is highly recommended that students meet with a counselor or academic adviser at Spokane Community College or Spokane Falls Community College on a regular basis to be sure that the requirements specified in this degree are met. Students should also seek academic advising at the four-year institution to which they plan to transfer early in their educational planning to learn about additional requirements and procedures for admission. To earn this degree, students must complete a minimum of 90 credits in academic courses numbered 100 or above and meet specific distribution requirements. At least 5 credits must be W-designated (writing-intensive). At least 30 credits must be earned from Spokane Community College or Spokane Falls Community College with at least 15 credits earned in residence at the college awarding the degree.

AA-DTA

| Suggested Courses to Consider ¹ | 90 |
|--|----|
| Total | 90 |

90 credits are required for the AA-DTA

90 credits are required for the AS-T 2

¹ Consult a counselor or academic adviser for recommended courses specific to student's choice of transfer institution.

POLITICAL SCIENCE PRE-MAJOR AA-DTA: SCC/SFCC

Political Science is the social science concerned chiefly with the description and analysis of political systems, human behaviors, ideologies, governmental institutions, processes and decision-making procedures.

AA-DTA

| Suggested Courses to Consider ¹ | 90 |
|--|----|
| Total | 90 |

90 credits are required for the AA-DTA

¹ Consult a counselor or academic adviser for recommended courses specific to student's choice of transfer institution.

PROFESSIONAL TRUCK DRIVER TRAINING Certificate: SCC

This program exceeds current Federal and State regulations providing classroom and on-the-road training for Class A combination vehicles. This 12 credit training course is offered each quarter for students to gain the required knowledge and skills in order to prepare for the Class A Commercial Driver's License (CDL).

Program Prerequisites:

- Prior to the start of the course, students must be 18 years of age or older
- Must have met the Department of Transportation's certified physical and drug test requirements
- Carry a valid driver's license from the state in which the student resides
- Obtain a motor vehicle or valid driving record for the last three-year period

Certificate

First Quarter

| HEQ | 101 | Commercial Driver's License Theory | 6 |
|-----|-----|--|----|
| HEQ | 102 | Commercial Driver's License Applications | 6 |
| | | Total | 12 |
| | | | |

12 credits are required for the Certificate

PROJECT MANAGEMENT/LEAN/SIX SIGMA CERTIFICATE Certificate: SCC

This certificate program will prepare students to understand the concepts and methods associated with project initiation, planning, execution, monitoring and controlling, and closing phases of project management. Students will utilize computer applications to manage and control project tasks, communication, costs, scheduling and quality.

In conjunction with Project Management, this certificate program will also provide students with real–world Lean Six Sigma training. Students will lead a Lean Six Sigma event focused on a process improvement methodology that combines the benefits of both Lean manufacturing techniques and Six Sigma to help companies streamline operations, increase value and reduce waste. Students will engage in leadership and teambuilding development so vital for successful project management in the workplace. Students can expect to increase job skills for entrylevel employment as well as career advancement. Courses in this program can be applied to the AAS degree in Management.

Certificate **First Quarter**

| CATT | 241 | Microsoft Project | 2.5 |
|------|-----|------------------------------------|-----|
| MMGT | 243 | Fundamentals of Project Management | 5 |
| MMGT | 244 | Introduction to Lean Six Sigma | 2.5 |
| MMGT | 256 | Lean Leadership ¹ | 5 |
| | | Total | 15 |

15 credits are required for the Certificate

Previous or concurrent enrollment in MMGT 243 and CATT 241 is required.

PSYCHOLOGY PRE-MAJOR AA-DTA: SCC/SFCC

Psychology, properly so called, is the study of behavior and mental processes of all organisms, not just humans. Students may pursue psychology as a profession or as an interest.

AA-DTA

| Suggested Courses to Consider ¹ | 90 |
|--|----|
| Total | 90 |

90 credits are required for the AA-DTA

1 Consult a counselor or academic adviser for recommended courses specific to student's choice of transfer institution.

RADIOLOGY TECHNOLOGY AAS: SCC

Radiologic technologists are an integral part of a team of healthcare workers providing patient care. Their primary duties include producing radiographic examinations that aid the physicians in diagnosing diseases and/or injuries. The radiologic technologist performs examinations at the request of a physician.

The technologist's primary role is obtaining top quality radiographic images while providing patient care. Radiologic departments can be found in hospitals, freestanding clinics and physician offices. While in the program the students become proficient at performing examinations in general radiography, fluoroscopy, surgery, trauma and intensive care units.

The program meets the criteria set forth by the Joint Review Committee on Education in Radiologic Technology (JRCERT) in collaboration with academic guidelines set by the American Society of Radiologic Technologists (ASRT). Joint Review Committee on Education in Radiologic Technology, 20 N. Wacker Dr. Suite 2850, Chicago IL 60606-3182, Phone: (312) 704-5300 Fax: (312) 704-5304

Upon completion and graduation of the program the students are able to take the national registry examination given by the American Registry of Radiologic Technologists (ARRT).

Each required course for graduation must be completed with a grade of 2.0 or better before proceeding to the next guarter. All clinicals must be completed with a grade of 2.5 or better.

National background checks and drug screening are completed at the beginning of the program and if there is a finding, clinical sites may not accept the student. This could prevent program completion, inability to take the national exam, and future

employment due to a failed background check and/or drug screening.

Admission Requirements:

- Radiology courses are limited to students of the Radiology Technology program.
- Must take the COMPASS or ALEKS math test for math placement.
- Students applying to the course must have completed 80 hours as a volunteer or employee in a patient care setting, and 10 of these hours need to be completed in a radiology department.
- Interviews will be conducted as part of the selection process for the Radiology program.
- Students must provide three confidential letters of recommendation.
- Immunizations, and drug screening are required (after being accepted into the Radiology Technology program). Forms are available in the SCC registration office.
- All math and science prerequisites must have been completed within the last five years with a grade of 2.5 or better. All documentation must be submitted by June 25th of the year of application.

AAS

| Prerequis | Prerequisites: | | | |
|---------------|----------------|---------------------------------------|--|--|
| – BIOL& | 160 | General Biology w/Lab | | |
| – BIOL& | 241 | Human A & P 1 ¹ | | |
| – BIOL& | 242 | Human A & P 2 ¹ | | |
| – CIS | 105 | Computer Fundamentals for Vocations I | | |
| – ENGL& | 101 | English Composition I ² | | |
| – HED | 125 | Medical Terminology | | |
| – MATH | 099 | Intermediate Algebra ² | | |
| – PHYS | 100 | Introductory Physics | | |
| | | | | |
| First Quarter | | | | |

| RAD | 111 | Radiographic Positioning I | 5 |
|-----|-----|----------------------------------|----|
| RAD | 113 | Patient Care and Ethics I | 2 |
| RAD | 114 | Radiographic Image Evaluation I | 2 |
| RAD | 115 | Fuch's Radiographic Principles I | 3 |
| RAD | 116 | Clinical Education I | 8 |
| | | Total | 20 |
| | | | |

Second Quarter

| Second G | Luarte | | |
|-----------|--------|------------------------------------|----|
| RAD | 121 | Radiographic Positioning II | 3 |
| RAD | 123 | Patient Care and Ethics II | 2 |
| RAD | 124 | Radiographic Image Evaluation II | 2 |
| RAD | 125 | Fuch's Radiographic Principles II | 3 |
| RAD | 126 | Clinical Education II | 9 |
| RAD | 127 | Mobile/Surgical Procedures | 1 |
| | | Total | 20 |
| Third Qua | arter | | |
| RAD | 131 | Radiographic Positioning III | 2 |
| RAD | 134 | Radiographic Image Evaluation III | 2 |
| RAD | 136 | Clinical Education III | 9 |
| RAD | 145 | Fuch's Radiographic Principles III | 2 |
| | | Total | 15 |
| Fourth Q | uarter | | |
| RAD | 132 | Radiation Physics | 2 |
| RAD | 141 | Radiographic Positioning IV | 2 |
| RAD | 144 | Radiographic Image Evaluation IV | 1 |
| RAD | 146 | Clinical Education IV | 7 |
| | | Total | 12 |
| Fifth Qua | rter | | |
| | | A 1 1 1 | |

| RAD | 212 | Quality Management | 1 |
|-------|-----|----------------------------------|---|
| RAD | | Various Modalities | 2 |
| RAD | - | Radiographic Image Evaluation V | 2 |
| RAD | | Radiation Biology and Protection | 2 |
| TO ID | 210 | Radiation Biology and Frotootion | - |

| RAD | 216 | Clinical Education V Total | 9 16 | | |
|---|---------------------------------|-------------------------------------|-------------------------------|--|--|
| Sixth Qu RAD RAD RAD RAD RAD | 211 223 224 225 226 | | 1 2 1 9 15 | | |
| Seventh | Quart | er | | | |
| RAD | 235 | Pharmacology/Venipuncture | 1 | | |
| RAD | 236 | Clinical Education VII | 9 | | |
| RAD | 237 | Review and Registration Preparation | 3 | | |
| RAD | 238 | Cat Scan | 1 | | |
| | | Total | 14 | | |
| 112 credits are required for the AAS | | | | | |

¹ This course has a prerequisite of BIOL& 160.

² This related education requirement may be met by any course or combination of courses approved by the instructional dean.

RESPIRATORY CARE AAS: SCC

Respiratory Care is a dynamic, high tech, high touch field involving direct patient care. This field is a life supporting, life enhancing allied health care profession practiced under qualified medical direction. Services provided to patients with disorders of the cardiopulmonary system include diagnostic testing, therapeutics, monitoring and rehabilitation. Patient, family and public education are essential to the mission of the profession. Respiratory care services are provided in all health care facilities (acute, subacute/long term, skilled nursing) and in the home.

This program is accredited by The Commission on Accreditation for Respiratory Care (www.coarc.com). Commission on Accreditation for Respiratory Care, 1248 Harwood Road Bedford, Texas 76021–4244, (817) 283–2835. Program outcomes data including attrition, job placement, NBRC examination success, on-time graduation rates, and enrollment may be accessed through the following link: www.coarc.com/47.html

The goal of the Respiratory Care program is to prepare graduates with demonstrated competence in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains of respiratory care practice as performed by registered respiratory therapists (RRTs). Program outcomes are measured by graduate success on the National Board for Respiratory Care (NBRC) exams, job placement, and graduate and employer satisfaction surveys.

Admission Requirements:

- High school diploma or GED certificate
- · Interview with respiratory care instructor
- Appropriate scores in one of the following: ASSET or COMPASS
- Computer skills recommended
- Active e-mail account recommended
- American Heart Association: HCP CPR card (within six months) recommended
- All math and science courses must have been taken within the last five years and must have been completed with a 2.5 grade or better
- A GPA of 2.5 is necessary to enter the Respiratory Care program and a GPA of 2.0 must be maintained throughout the entire program.

| AAS Prerequis | sites: | | |
|---|---|--|--|
| – BIOL& | 160 | General Biology w/Lab | |
| – BIOL& | 241 | Human A & P 1 | |
| – BIOL& | 242 | Human A & P 2 | |
| – BIOL& | | Microbiology | |
| – CHEM& | 121 | Intro to Chemistry: w/Lab | |
| – CMST& | - | Interpersonal Communication | |
| – ENGL& | | English Composition I | |
| – MATH | 099 | Intermediate Algebra | |
| First Qua | | | |
| RT | 101 | Respiratory Care Fundamentals I | |
| RT | 102 | Respiratory Care Fundamentals I | |
| RT | 103 | Technical Skills Lab | |
| RT | 110 | Respiratory Care Anatomy and Physiology Physical Science for Respiratory Care | |
| RT | 213 | Electrophysiology | |
| | 215 | Total | |
| Second C |)uarte | r | |
| RT | 104 | Respiratory Care Fundamentals II | |
| RT | 105 | Respiratory Care Fundamentals II | |
| | | Technical Skills Lab | |
| RT | 106 | Clinical Interpretation of Blood Gases | |
| RT | 107 | Respiratory Care Pharmacology | |
| RT | 108 | Basic Life Support Instructor Course | |
| RT | 109 | Computer Applications in Respiratory Care | |
| RT | 114 | Respiratory Care Clinical I | |
| | | Total | |
| Third Qua | | | |
| RT | 115 | Fundamentals of Spirometry and Blood Gas Analysis | |
| RT | 116 | Fundamentals of Spirometry | |
| | 110 | and ABG Technical Skills Lab | |
| RT | 117 | Respiratory Care Fundamentals III | |
| RT | 118 | Respiratory Care Fundamentals III | |
| | | Technical Skills Lab | |
| RT | 119 | Cardiopulmonary Pathophysiology | |
| RT | 121 | Respiratory Care Clinical II | |
| | | Total | |
| Fourth Q | uarter | | |
| RT | 122 | Respiratory Care Clinical III Total | |
| | | | |
| Fifth Qua RT | 201 | Critical Care I | |
| RT | 201 | Critical Care I Technical Skills Lab | |
| RT | 202 | Advanced Cardiac Life Support Course | |
| | 204 | Advanced Cardiac Life Support | |
| RT | | Technical Skills Lab | |
| RT | | | |
| | 205 | Pulmonary Volumes, Diffusion | |
| | 205 | | |
| RT RT | 206 | Pulmonary Volumes, Diffusion and Instrumentation PVDI Technical Skills Lab | |
| RT RT RT | 206 207 | Pulmonary Volumes, Diffusion and Instrumentation PVDI Technical Skills Lab Respiratory Care Clinical IV | |
| RT RT | 206 | Pulmonary Volumes, Diffusion and Instrumentation PVDI Technical Skills Lab Respiratory Care Clinical IV Pulmonary Diagnostics Clinical | |
| RT RT RT | 206 207 | Pulmonary Volumes, Diffusion and Instrumentation PVDI Technical Skills Lab Respiratory Care Clinical IV | |
| RT RT RT RT Sixth Qua | 206 207 208 | Pulmonary Volumes, Diffusion and Instrumentation PVDI Technical Skills Lab Respiratory Care Clinical IV Pulmonary Diagnostics Clinical Total | |
| RT RT RT RT Sixth Qua RT | 206 207 208 arter 216 | Pulmonary Volumes, Diffusion and Instrumentation PVDI Technical Skills Lab Respiratory Care Clinical IV Pulmonary Diagnostics Clinical Total Critical Care II | |
| RT RT RT RT Sixth Qua RT RT | 206 207 208 arter 216 217 | Pulmonary Volumes, Diffusion and Instrumentation PVDI Technical Skills Lab Respiratory Care Clinical IV Pulmonary Diagnostics Clinical Total Critical Care II Critical Care II Technical Skills Lab | |
| RT RT RT RT Sixth Qu RT RT RT | 206 207 208 arter 216 217 218 | Pulmonary Volumes, Diffusion and Instrumentation PVDI Technical Skills Lab Respiratory Care Clinical IV Pulmonary Diagnostics Clinical Total Critical Care II Critical Care II Technical Skills Lab Neonatal/Pediatric Respiratory Care | |
| RT RT RT RT Sixth Qua RT RT RT RT RT | 206 207 208 arter 216 217 218 219 | Pulmonary Volumes, Diffusion and Instrumentation PVDI Technical Skills Lab Respiratory Care Clinical IV Pulmonary Diagnostics Clinical Total Critical Care II Critical Care II Technical Skills Lab Neonatal/Pediatric Respiratory Care Perinatal/Pediatric Technical Skills Lab | |
| RT RT RT RT Sixth Qua RT RT RT RT RT RT | 206 207 208 arter 216 217 218 219 225 | Pulmonary Volumes, Diffusion and Instrumentation PVDI Technical Skills Lab Respiratory Care Clinical IV Pulmonary Diagnostics Clinical Total Critical Care II Critical Care II Technical Skills Lab Neonatal/Pediatric Respiratory Care Perinatal/Pediatric Technical Skills Lab Advanced Pulmonary Diagnostics | |
| RT RT RT RT Sixth Qua RT RT RT RT RT | 206 207 208 arter 216 217 218 219 | Pulmonary Volumes, Diffusion and Instrumentation PVDI Technical Skills Lab Respiratory Care Clinical IV Pulmonary Diagnostics Clinical Total Critical Care II Critical Care II Technical Skills Lab Neonatal/Pediatric Respiratory Care Perinatal/Pediatric Technical Skills Lab Advanced Pulmonary Diagnostics Advanced Pulmonary Diagnostics | |
| RT RT RT RT RT RT RT RT RT RT RT RT | 206 207 208 arter 216 217 218 219 225 226 | Pulmonary Volumes, Diffusion and Instrumentation PVDI Technical Skills Lab Respiratory Care Clinical IV Pulmonary Diagnostics Clinical Total Critical Care II Critical Care II Technical Skills Lab Neonatal/Pediatric Respiratory Care Perinatal/Pediatric Technical Skills Lab Advanced Pulmonary Diagnostics Advanced Pulmonary Diagnostics Technical Skills Lab | |
| RT RT RT RT Sixth Qua RT RT RT RT RT RT | 206 207 208 arter 216 217 218 219 225 | Pulmonary Volumes, Diffusion and Instrumentation PVDI Technical Skills Lab Respiratory Care Clinical IV Pulmonary Diagnostics Clinical Total Critical Care II Critical Care II Technical Skills Lab Neonatal/Pediatric Respiratory Care Perinatal/Pediatric Technical Skills Lab Advanced Pulmonary Diagnostics Advanced Pulmonary Diagnostics | |

Seventh Quarter 229 Current Trends in Respiratory Care RT RT 235 Patient Management and Problem Solving RT 236 Patient Management and Problem Solving Lab RT 237 Management in Health Care Respiratory Care Clinical VI RT 238 Total

99 credits are required for the AAS

RETAIL MANAGEMENT Certificate: SFCC

The Retail Management Certificate prepares individuals to manage a variety of retail sales operations or lines of merchandise. Students who complete the ten course Retail Management Certificate program will develop a clear sense of the scope of a career in the field of retail management. The program serves both entry–level job candidates and incumbent employees. The curriculum includes foundational courses in both written and oral communication, business math, human relations, and microcomputer applications. Students also complete specific business and management courses in accounting, management, marketing, retailing, and human resource management. After successful completion of the required coursework, students will receive a Retail Management Certificate. This certificate is endorsed by the Western Association of Food Chains (WAFC).

Certificate

| First Qua | arter | | | | | |
|-----------|--|---|----|--|--|--|
| BT | 107 | Business Communications ¹ | 5 | | | |
| BUS | 103 | Basic Business Math | | | | |
| | | and Electronic Calculators ² | 5 | | | |
| IS | 120 | | 3 | | | |
| MMGT | 150 | • | 5 | | | |
| | 150 | Total | 18 | | | |
| | | lotai | 18 | | | |
| Second (| Quarte | er | | | | |
| ACCT& | 201 | Prin of Accounting I | 5 | | | |
| | | Introduction to Communication | 5 | | | |
| | - | Human Resource Management | 5 | | | |
| | 201 | Total | 15 | | | |
| | | | 10 | | | |
| Third Qu | arter | | | | | |
| BUS | 280 | Human Relations in Business | 5 | | | |
| MMGT | 101 | Principles of Management | 5 | | | |
| MMGT | 211 | Marketing | 5 | | | |
| | | Total | 15 | | | |
| 48 credit | 48 credits are required for the Certificate | | | | | |
| | | | | | | |
| · · | | te ENGL& 101. | | | | |
| 4 May su | ² May substitute MATH 090 or above. | | | | | |
| | | | | | | |

RURAL AEROSPACE TRAINING Certificate: SCC

Spokane Community College, in conjunction with the Inland Northwest Aerospace Technology Center, offers the Rural Aerospace certificate at the SCC Colville Industrial Center.

This program focuses on the knowledge, skills, and abilities needed to perform the typical duties of Precision Machining and Quality Assurance in the manufacturing industry. The program will prepare students to work with quality control systems management principles, applicable technical standards, testing inspection and reporting procedures; as well as preparing the student to work in small machine shops or manufacturing firms that produce durable goods such as metalworking and industrial machinery, aircraft parts, equipment, and components for manufactured products.

The Rural Aerospace Training Certificate, which consists of Precision Machining and Quality Assurance (one quarter each), prepares students for careers in the aerospace industry. A third quarter focus on welding and fabrication will provide skills needed for employment in rural communities. This certificate also provides the sustainability necessary for this program to continue in the rural counties.

Certificate First Quarter

4

3

1

2

5

15

| r ii si Qua | lei | | |
|---------------|------------|---|--------|
| APLED FLPT | 110 104 | Applied Comprehensive Communication ¹ Hydraulics/Pneumatic Fundamentals | 5 6 |
| | - | | - |
| MACH | 106 | Blueprint Reading | 7 |
| | | Total | 18 |
| Second C | Quarte | er | |
| APLED | 125 | Employment Preparation ¹ | 3 |
| MACH | 107 | | 3 |
| MACH | | CNC Theory | 5 |
| MACH | 248 | CNC Lab | 7 |
| MACH | 240 | | - |
| | | Total | 18 |
| Third Qua | arter | | |
| AIRC | 117 | Theory of Heat Transfer | 4 |
| APLED | 112 | Applied Mathematics ¹ | 3 |
| ELMT | 102 | •• | 6 |
| WELD | 104 | Welding and Fabrication Basics | 5 |
| | | Total | 18 |
| | | | |

54 credits are required for the Certificate

¹ This related education requirement may be met by any course or combination of courses approved by the department dean.

SHEET METAL RESTORATION AND FABRICATION Certificate: SCC

The sheet Metal Restoration and Fabrication certificate program offers education and training in the skills needed to restore and fabricate parts for classic and antique automobiles.

Instruction is through lecture, demonstration and hands-on practice. The skills taught include dent removal, metal finishing, lead and body filler work, multiple welding methods, and sheet metal shaping.

| Certifica First Qu | | | |
|-----------------------|-----|--|----|
| ABF | 270 | Sheet Metal Restoration Welding | 4 |
| ABF | 271 | Sheet Metal Shaping | 4 |
| ABF | 272 | Bucks and Forms | 3 |
| ABF | 273 | Sheet Metal and Restoration and Repair | 5 |
| | | Total | 16 |

16 credits are required for the Certificate

SOCIAL MEDIA MARKETING Certificate: SFCC

The primary goal of this certificate is to provide students with a working knowledge and hands on experience in the field of social media marketing. This certificate is designed for both incumbent workers who are looking to update their marketing, public relations, and advertising skills; and students seeking a position in the field of social media marketing.

| Certifica First Qu | | | |
|-----------------------|--------|---------------------------------|----|
| MMGT | 125 | Social Media Marketing | 5 |
| MMGT | 126 | Search Engine Marketing | 5 |
| | | Total | 10 |
| Second | Quarte | er | |
| MMGT | 128 | Social Media Marketing Campaign | 5 |
| | | Total | 5 |

15 credits are required for the Certificate

SOCIAL SERVICES AAS: SFCC

The Social Service program is designed for those who plan to seek employment in social services upon completion of the twoyear program, or who wish to transfer to a four-year institution and complete a bachelor's degree.

The Social Service program leads to: an associate in applied science (AAS) degree that is for those who wish to transfer to a four-year college or seek employment in social services upon completion of the two-year program.

Those who have completed the AAS program will have acquired the necessary skills to work in various public and private social services programs. This degree also can serve as a transfer degree to four-year colleges. See program adviser for more information.

AAS

| First Qua | rter | | |
|----------------------|-------------------|--|--------------------------|
| AS HS PSYC& | 131 102 100 | Survey of Addictions Introduction to Human Services General Psychology Transfer Track Electives ¹ Total | 5 5 5 20 |
| Second Q | uarte | r | |
| HS HSGER HSGER | 105 101 250 | Introduction to Social Gerontology | 5 5 5 15 |
| Third Qua | arter | | |
| ENGL& HS | 101 115 | Social Policy ² | 5 5 |
| HSGER | 115 | Multi-Cultural Perspectives in Human Services ³ Total | 5 15 |
| Fourth Qu | Jarter | | |
| BUS HS | 123 281 | Practical Business Math Applications ⁴ Practicum I Transfer Track Electives ¹ Total | 5 5 5 15 |
| Fifth Qua | rter | | |
| HS HSGER | 282 210 | Practicum II ⁵ Aging and Mental Health ⁶ Transfer Track Electives ¹ Total | 5 5 5 15 |
| Sixth Qua | arter | | |
| HS | 283 | Practicum III ⁶ Transfer Track Electives ¹ Total | 5 10 15 |

95 credits are required for the AAS

1 Select transfer track electives from AA degree requirements or human services courses approved by the program adviser.

- ² HS 115 may be substituted with HS 221 or HSSOC 115.
- 3 HSGER 115 may be substituted with HSGER 201.
- BUS 123 may be substituted with any MATH course approved by the program adviser.
- ⁵ HS 282 may be substituted with electives approved by the program adviser.
- 6 May be substituted with human services electives.

SOCIOLOGY PRE-MAJOR AA-DTA: SCC/SFCC

Sociology is defined as the study of the history, development, organization and problems of people living together as social groups. The sociologist strives to gain understanding of people through the scientific study of human relationships.

AA-DTA

| Suggested Courses to Consider ¹ | 90 |
|--|----|
| Total | 90 |

90 credits are required for the AA–DTA

Consult a counselor or academic adviser for recommended courses specific to student's choice of transfer institution.

SOFTWARE DEVELOPMENT AAS, Certificate: SCC

The software development program trains students in current web and desktop application development using diverse industry technologies. Software development is an evolving field of study requiring continuing education and the ability to adapt to constant change. Graduates from this program acquire problem solving skills, are encouraged to work independently and as a team, and be ethical in all interactions.

Students must maintain a grade of 2.0 in each class.

| AAS First Qua CIS CIS CIS CIS MATH | 107 111 112 146 104 | Computer Math HTML5/CSS I Web Graphics with Photoshop Introduction to Programming/VB Computer Math Total | 2 5 3 5 3 18 |
|--|-----------------------------------|--|------------------------------------|
| Second (| | | _ |
| CIS CIS CIS ENGL& | 126 130 282 101 | DBMS/SQL HTML5/CSS II Programming I - Ruby English Composition I Total | 5 5 5 5 20 |
| Third Qu CIS CIS CIS CMST& | 114 256 283 | JavaScript/jQuery C# Programming II - Ruby Interpersonal Communication Total | 5 5 5 5 20 |
| Fourth Q | uarter | | |
| CIS CIS CIS | 217 230 284 | Mobile Development I | 5 5 5 15 |
| Fifth Qua CIS CIS CIS | 1rter 218 221 258 | Mobile Development II Mobile IV-IOS 1 ASP.NET | 5 5 5 |

| CIS | 272 | 5 | 5 20 |
|---|--|--|-------------------------------|
| Sixth Qua BT CIS CIS CIS CIS | 160 219 222 259 | Mobile V-IOS 2 Advanced .NET | 3 5 2 5 15 |
| 108 credit | s are | required for the AAS | |
| Computer CIS CIS CIS | | Programming II - Ruby | 5 5 5 1 5 |
| 15 credits | are r | equired for the Certificate | |
| .Net Deve CIS CIS CIS CIS | 126 256 | ASP.NET | 5 5 5 15 |
| 15 credits | are r | equired for the Certificate | |
| Android M CIS CIS CIS CIS | | Mobile Development III | 5 5 5 1 5 |
| 15 credits | are r | equired for the Certificate | |
| IOS Mobil CIS CIS CIS CIS | | Mobile V-IOS 2 | 5 5 2 12 |
| 12 credits | are r | equired for the Certificate | |
| | | Software Development Certificate | |
| First Qua CIS CIS CIS | r ter 217 218 219 | Mobile Development I Mobile Development II Mobile Development III Total | 5 5 5 15 |
| Second Q HIM | uarte 219 | r Healthcare Environment and Professional Skills | 5 |
| HIM HIM | 220 221 | Health Technology Environment and Security HIMS Systems Analysis, Implementation and Maintenance | |
| 30 credits | are r | equired for the Certificate | |
| Web Desi CIS CIS CIS CIS CIS | gn Ce 111 112 130 146 | HTML5/CSS I Web Graphics with Photoshop HTML5/CSS II Introduction to Programming/VB | 5 3 5 5 18 |

18 credits are required for the Certificate

Web Developer Certificate

| CIS | 114 | JavaScript/jQuery | 5 |
|-----|-----|-------------------|---|
| 010 | 114 | ouvalourp/jouery | 5 |

| CIS | 258 | ASP.NET | 5 |
|-----|-----|----------------------------|----|
| CIS | 272 | Agile Software Development | 5 |
| CIS | 284 | Ruby on Rails | 5 |
| | | Total | 20 |
| | | | |

20 credits are required for the Certificate

SURGICAL TECHNOLOGY

AAS: SCC

The Surgical Technology program prepares students to function in cooperation with the surgeon and nurses in the operating room performing duties that are vital for the safety and care of surgical patients. Students must have knowledge and skills in surgical aseptic techniques for preparation and use of materials during a surgical procedure. Students also must be able to relate to patients and other people in the field. Using reasonable judgment when working in emergency surgical situations is required.

At the completion of the program, students will be able to accept the responsibility expected of the surgical technologist as a beginning staff employee in the operating room. Prior to graduation, students will sit for the National Certifying Examination for Surgical Technologists for gualification as a certified surgical technologist (CST).

The Surgical Technology program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the National Board of Surgical Technology and Surgical Assisting (www.nbstsa.org). The National Board of Surgical Technology and Surgical Assisting (NBSTSA) 6 West Dry Creek Circle, Ste. 100 Littleton, CO 80120 Toll Free: 1-800-707-0057 FAX: 303-325-2536. Commission on Accreditation of Allied Health Education Programs (CAAHEP) 25400 US Highway 19 N., Suite 158, Clearwater, FL 33763; (707) 210-2350, www.caahep.org

Admission Requirements:

- High school diploma or GED certificate
- Appropriate scores in one of the following: ASSET or COMPASS
- Computer skills required
- Active e-mail account required
- Prerequisites: BIOL 160, MATH 092, CIS 110

Pre-program wait list requirement:

Prior to acceptance on the Surgical Technology program wait list students must complete a satisfactory criminal background check (completed annually). This process is completely on-line and can be done through True-Hire at:

https://truehire.secure-screening.net/escreening/OApp LoginEn trance.asp?mode=direct&code=008002. Once on the site you will choose where you see "Select the Position for Which you are applying," select "STUDENT 1-Surg Tech", from the drop down list. Please note that the cost for this check must be paid by credit card before the check can be started.

- Each required course for graduation must be completed with a grade of 2.0 or better before proceeding to the next quarter.
- A student may repeat a surgical technology class only once, and it must be repeated within two years.
- The Surgical Technology program must be completed within a three-year period.
- The Surgical Technology program is a fall start program. Students are accepted from a wait list.
- Students can enter into the third or fourth quarter only if they qualify for advanced standing and space is available. Students requesting placement into the program in the second year must pass a comprehensive test for each class or take SURG 202, 203 and 206 even if they had previously passed the courses.

| AAS Prerequis – BIOL& – CIS – MATH | | General Biology w/Lab Introduction to Computer Applications Elementary Algebra II | |
|--|--|--|------------------------------------|
| First Qua BIOL& CMST& HED SURG SURG | rter 241 210 125 100 105 | Human A & P 1 Interpersonal Communication Medical Terminology Introduction to Surgical Technology Blood-borne Pathogens and HIV/AIDS Total | 5 5 2 1 18 |
| Second C BIOL& ENGL& SURG SURG | 242 242 101 107 120 | Fr Human A & P 2 English Composition I Surgical Environment Disease Transmission and Control Total | 5 5 3 3 16 |
| Third Qua HED PHARM SURG SURG SURG | arter 109 115 101 104 111 | Human Physiology and Disease Mathematics for Pharmacy Technicians Surgical Procedures Central Service Clinical Technical Skills I Total | 5 5 5 1 4 20 |
| Fourth Qu SURG SURG SURG | uarter 202 212 254 | Surgical Procedures Technical Skills II Operating Room Practicum Total | 6 4 2 12 |
| Fifth Qua SURG SURG SURG | rter 203 206 255 | Surgical Procedures Perioperative Care of the Patient Operating Room Practicum Total | 4 4 5 13 |
| Sixth Qua SURG SURG | arter 250 256 | Surgical Seminar Operating Room Practicum Total | 3 10 13 |
| 92 credits | s are r | required for the AAS | |

¹ MATH 092 may be substituted with MATH 096.

TELECOMMUNICATIONS OFFICER Certificate: SCC

The Telecommunications Officer Certificate program consists of training suitable for students in Criminal Justice, Fire Science, and other departments involved in emergency calls for services. The program prepares students to receive, relay, and dispatch emergency calls; provide assistance to the public via telephone or in person; and operate a variety of communications equipment. The maintenance of accurate and precise recordkeeping is also stressed throughout the program.

In order to enter the program, students must prove keyboarding proficiency at 35 wpm and pass a multi–task evaluation test which will include testing the applicant's ability to manage stressful situations that may occur on–the–job. For further information, contact a program instructor or a counselor.

Certificate

| First Quarter | | |
|---------------|-----|---------------------------------------|
| CIS | 110 | Introduction to Computer Applications |
| CJ | 209 | Human Relations |

CMST& 210 Interpersonal Communication 5 ENGL& 101 English Composition I 5 Total 18 Second Quarter

| CATT | 122 | Microsoft Access I | 2.5 |
|------|-----|---------------------------------------|-----|
| CATT | 123 | Microsoft Access II | 2.5 |
| CJ | 150 | Criminal Justice Report Writing | 5 |
| CJ | 212 | Professional Development | 1 |
| CJ | 266 | Cooperative Education Seminar | 1 |
| CJ | 267 | Cooperative Education Work Experience | 6 |
| | | Total | 18 |
| | | | |

36 credits are required for the Certificate

VASCULAR TECHNOLOGY AAS: SCC

Vascular Technology is an Allied Health profession in which practitioners perform diagnostic and monitoring procedures using sound waves. The vascular sonographer performs examinations at the request or direction of a physician. Through subjective sampling and/or recording, the vascular sonographer proceeds with the examination to create an easily definable foundation of data from which a correct anatomic and physiologic diagnosis may be established for each patient.

The various types of ultrasound imaging equipment require a highly skilled sonographer to obtain the imaging information or other data required. The vascular sonographer must obtain appropriate history, physical findings, and pertinent laboratory data to adapt the imaging techniques to obtain comprehensive and diagnostic information.

The Vascular Technology program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep) upon the recommendation of the Joint Review Committee for Cardiovascular Technology (www.jrccvt.org), JRC–CVT, 6 Pine Knoll Drive, Beverly, MA 01915–1425; (978) 456–5594.

Students within the Vascular Technology program are required to complete a six month, full-time clinical internship. As clinical space is limited in Spokane and the surrounding area, the student may be required to complete their internship in an out-of-town and/or out-of-area medical center.

Admission Recommendations/Requirements:

- Active email account recommended
- Computer skills recommended
- CHEM 120; CHEM& 121; HED 125; PHYS 100; PHYS 120 recommended
- Appropriate scores in ASSET or COMPASS required
- Immunizations, and drug screening and Washington State Patrol (WSP) background check are required after being accepted into the program.
- A 2.0 grade must be maintained quarterly in every course before proceeding to the next quarter.
- Students may repeat a professional course once, but it must be repeated within two years.
- High school diploma or GED certificate required
 - Interview with vascular technology instructor required.

Program Prerequisites:

• All math and science prerequisites must have been completed within the last five years with a grade of 2.0 or better.

AAS

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Prerequisites:

- BIOL& 160 General Biology w/Lab

| – BIOL& – CMST – ENGL& | | Human A & P 2 | |
|---|---|---|--|
| VASC VASC VASC VASC | ter 100 112 116 117 125 213 | Introduction to Echo and Vascular Vascular Fundamentals Acute Coronary Syndrome Cardiovascular Pharm 1 Ultrasound Physics and Instrumentation I Electrophysiology Total | 2 4 1 5 4 17 |
| VASC VASC VASC | | Vascular Procedures I Hemodynamics Cardiovascular Pharm 2 Technical Skills/Reading Hemodynamics | 4 2 1 1 5 5 19 |
| VASC VASC VASC | rter 131 132 134 136 138 | Core Concepts in Vasc Vascular Procedures II Vascular Technical Skills I Comparative Imaging Analysis Cardiovascular Physiology Total | 2 6 2 3 4 17 |
| VASC VASC VASC | 139 140 141 142 143 144 | Surgical Asepsis Technical Skills/Surgical Asepsis Data Collection and Presentation Survey of Diagnostic Medical Sonography Vascular Screening Simulation Vascular Screening Seminar Total | 1 3 3 4 2 14 |
| VASC VASC VASC VASC VASC Sixth Qua | 251 252 253 254 255 256 | Vascular Technical Skills Advanced Vascular Techniques Vascular Clinical I Vascular Clinical Preparation Research Methods and Biostatistics Cardiovascular Pathophysiology Total Vascular Clinical II Total | 4 7 2 3 1 19 14 14 |
| | 272 | | 14 14 14 |
| | 5 010 | | |

VETERINARY MEDICINE PRE-MAJOR AA–DTA, Associate in Biology DTA/MRP: SCC/SFCC

Humans use animals for food, work, and pleasure. The work of the veterinarian in preventing, curing, alleviating and eradicating disease is therefore very important to humans. Veterinary medicine offers many different career opportunities.

AA-DTA

| Suggested Courses to Consider ¹ | 90 |
|--|----|
| Total | 90 |

90 credits are required for the AA-DTA

Associate in Biology DTA/MRP

| Suggested Courses to Consider ¹ | 90 |
|--|----|
| Total | 90 |

90 credits are required for the Associate in Biology DTA/MRP

| 1 | Consult a counselor or academic adviser for recommended |
|---|---|
| | courses specific to student's choice of transfer institution. |

WATER RESOURCES TECHNOLOGY AAS, Certificate: SCC

The Water Resources Technology program is designed to prepare students for positions in hydrology and water quality for local, state and federal agencies, and private industry.

The Water Resources Technology Water and Wastewater option is designed to prepare students for positions in public and private water and wastewater operations facilities.

| AAS – Wa First Qua | | esources Technology | |
|-----------------------|------------|---|---------------------|
| NATRS | 112 | Natural Resources Mathematical Applications ¹ | 5 |
| NATRS | 120 | Basic Computer Applications in Natural Resources ¹ | 2 |
| WATER WATER | 109 120 | Introduction to Water Resources Hydrologic Technical and Field Reports ¹ | 5 5 |
| WATER | 128 | Occupational Preparation and Experience ¹ Total | 1 18 |
| Second C | Juarte | | |
| NATRS | 122 | Natural Resources Trigonometric Applications ¹ | 5 |
| NATRS | 220 | Introduction to Geographic Information Systems for Natural Resources ² | 5 |
| WATER | 129 | Occupational Preparation and Experience | 1 |
| WATER WATER | 132 208 | Hydrologic Field Projects ³ Water Data and Records Analysis Total | 1 5 17 |
| Third Qu | arter | | |
| GEOL& | 101 | Intro Physical Geology ⁴ | 5 |
| NATRS WATER | 204 133 | Maps and Aerial Photo Interpretation Hydrologic Field Projects ³ | 5 1 |
| WATER | 205 | Differential Leveling ⁵ | 3 |
| WATER | 210 | Hydrologic Measurement Total | 3 17 |
| Fourth Q | uarter | · | |
| ENVS | 216 | Fisheries Ecology | 5 |
| ENVS WATER | 226 212 | Fisheries Techniques Water Rights and Laws | 4 5 |
| WATER | 214 | Advanced Hydrologic Records | 3 |
| WATER WATER | 228 231 | Occupational Preparation and Experience Hydrologic Field Projects ³ | 1 1 |
| WAIER | 231 | Total | 19 |
| Fifth Qua | rter | | |
| NATRS | 230 | Global Positioning Systems | 3 |
| WATER WATER | 110 209 | Hydrogeology Water Quality | 5 5 |
| WATER | 218 | Hazardous Materials | 3 |
| WATER WATER | 229 232 | Occupational Preparation and Experience Hydrologic Field Projects ³ | 1 1 |
| WAIER | 232 | Total | 18 |

| Sixth Qu | arter | | |
|----------|-------|--|----|
| ENVS | 211 | Weather and Climate | 5 |
| NATRS | 221 | Applications in Geographic | |
| | | Information Systems | 4 |
| WATER | 213 | Advanced Water Quality | 3 |
| WATER | 216 | Watershed Restoration | 3 |
| WATER | 233 | Hydrologic Field Projects ³ | 1 |
| | | Total | 16 |

105 credits are required for the AAS

| net by any |
|----------------|
| he |
| ted with a 2.0 |
| |
| ł |

- Students must pass a competency test. 3 Water 131 may be taken in the first quarter with instructor's permission. Students are required to complete a minimum of five of the six field projects: WATER
- 131,132,133,231,232,233. 4
- GEOL& 101 may be substituted with CHEM 115.
- 5 WATER 205 may be substituted with NATRS 205.

AAS - Water and Wastewater First Quarter

| First Qua | irter | | | | |
|----------------|-------|--|----|--|--|
| NATRS | 112 | Natural Resources Mathematical Applications ¹ | 5 | | |
| NATRS | 120 | Basic Computer Applications | Ŭ | | |
| | | in Natural Resources ¹ | 2 | | |
| WATER | 109 | Introduction to Water Resources | 5 | | |
| WATER | 120 | Hydrologic Technical and Field Reports ¹ | 5 | | |
| WATER | 128 | Occupational Preparation and Experience ¹ | 1 | | |
| | | Total | 18 | | |
| Second Quarter | | | | | |
| NATRS | 122 | Natural Resources Trigonometric | - | | |
| | | Applications ¹ | 5 | | |
| NATRS | 220 | Introduction to Geographic Information | | | |

| NAINO | 220 | introduction to Geographic information | |
|-------|-----|--|----|
| | | Systems for Natural Resources ² | 5 |
| | | Occupational Preparation and Experience | 1 |
| WATER | 132 | Hydrologic Field Projects ³ | 1 |
| WATER | 208 | Water Data and Records Analysis | 5 |
| | | Total | 17 |

Third Quarter

| GEOL& | 101 | Intro Physical Geology ⁴ | 5 |
|-------|-----|--|----|
| NATRS | 204 | Maps and Aerial Photo Interpretation | 5 |
| WATER | 133 | Hydrologic Field Projects ³ | 1 |
| WATER | 135 | Pumps, Pipes, Hydrants, and Valves | 3 |
| WATER | 210 | Hydrologic Measurement | 3 |
| | | Total | 17 |

Fourth Quarter

| WATER | 206 | Basic Mechanical Maintenance and Repair | | | |
|---------------|--|---|----|--|--|
| WATER | WATER 211 Water and Wastewater Regulations | | 3 | | |
| WATER | WATER 212 Water Rights and Laws | | 5 | | |
| WATER | 228 | Occupational Preparation and Experience | 1 | | |
| WATER | 231 | Hydrologic Field Projects | 1 | | |
| | | Total | 13 | | |
| Fifth Quarter | | | | | |
| NATRS | 230 | Global Positioning Systems | 3 | | |
| WATER | 110 | Hydrogeology | 5 | | |

| WATER | 110 | Hydrogeology | 5 |
|-------|-----|---|----|
| WATER | 209 | Water Quality | 5 |
| WATER | 218 | Hazardous Materials | 3 |
| | | Occupational Preparation and Experience | 1 |
| WATER | 232 | Hydrologic Field Projects ³ | 1 |
| | | Total | 18 |

Sixth Quarter

| Olver de | ancor | | |
|----------|-------|--|----|
| ENVS | 211 | Weather and Climate | 5 |
| NATRS | 221 | Applications in Geographic | |
| | | Information Systems | 4 |
| WATER | 213 | Advanced Water Quality | 3 |
| WATER | 215 | Construction Inspection and Management | 3 |
| WATER | 233 | Hydrologic Field Projects ³ | 1 |
| | | Total | 16 |
| | | | |

99 credits are required for the AAS

- 1 These related education requirements may be met by any course or combination of courses approved by the instructional dean. NATRS 112 must be completed with a 2.0 or higher before advancing on to NATRS 122.
- 2 Students must pass a competency test.
- 3 Water 131 may be taken in the first quarter with instructor's permission. Students are required to complete a minimum of five of the six field projects: WATER 131, 132, 133, 231, 232, 233.
- 4 GEOL& 101 may be substituted with CHEM 115.

Certificate - Water Resources Technologies in Geographic Information Systems ~

| | ····· - , | stems | |
|---|---|---|----------------------------|
| | | Water Resources Electives ¹ Water Special Project Electives ² Total | 3 3 6 |
| First Qua | arter | | |
| NATRS | 112 | Natural Resources Mathematical Applications ³ | 5 |
| NATRS | 120 | Basic Computer Applications in Natural Resources Total | 2 7 |
| 0 | . | | |
| Second (| | | |
| NATRS | 220 | Introduction to Geographic Information | F |
| NATRS | 230 | Systems for Natural Resources ⁴ Global Positioning Systems Total | 5 3 8 |
| Third Qu | artor | | |
| NATRS | 204 | Maps and Aerial Photo Interpretation | 5 |
| NATRS | 221 | Applications in Geographic | Ŭ |
| | | Information Systems | 4 |
| | | Total | 9 |
| | | | |
| 30 credit | s are i | required for the Certificate | |
| | | required for the Certificate | |
| | | es Electives | 3 |
| Water Re | esourc | es Electives | 3 3 |
| Water Re WATER WATER | esourc 210 216 | es Electives Hydrologic Measurement Watershed Restoration | |
| Water Re WATER WATER | esourc 210 216 | es Electives Hydrologic Measurement Watershed Restoration Project Electives | |
| Water Re WATER WATER Water Sp | esourc 210 216 216 Decial 131 | es Electives Hydrologic Measurement Watershed Restoration Project Electives Hydrologic Field Projects | 3 |
| Water Re WATER WATER Water Sp WATER | esourc 210 216 216 Decial 131 | tes Electives Hydrologic Measurement Watershed Restoration Project Electives Hydrologic Field Projects Hydrologic Field Projects Hydrologic Field Projects | 3 1 |
| Water Re WATER WATER Water Sp WATER WATER | 210 216 216 ecial 131 132 | EVALUATE: Hydrologic Measurement Watershed Restoration Project Electives Hydrologic Field Projects Hydrologic Field Projects Hydrologic Field Projects Hydrologic Field Projects | 3 1 1 |
| Water Re WATER WATER WATER WATER WATER WATER WATER WATER | 210 216 Decial 131 132 133 231 232 | tes Electives Hydrologic Measurement Watershed Restoration Project Electives Hydrologic Field Projects Hydrologic Field Projects Hydrologic Field Projects Hydrologic Field Projects Hydrologic Field Projects Hydrologic Field Projects | 3 1 1 1 1 |
| Water Re WATER WATER WATER WATER WATER WATER WATER | esourc 210 216 eecial 131 132 133 231 | EVALUATE: Hydrologic Measurement Watershed Restoration Project Electives Hydrologic Field Projects Hydrologic Field Projects Hydrologic Field Projects Hydrologic Field Projects | 3 1 1 1 |
| Water Re WATER WATER WATER WATER WATER WATER WATER WATER | 210 216 ecial 131 132 133 231 232 233 | Project Electives Hydrologic Measurement Watershed Restoration Project Electives Hydrologic Field Projects Hydrologic Field Projects Hydrologic Field Projects Hydrologic Field Projects Hydrologic Field Projects Hydrologic Field Projects | 3 1 1 1 1 |
| Water Re WATER WATER WATER WATER WATER WATER WATER WATER WATER | 210 216 becial 131 132 133 231 232 233 ts may | tes Electives Hydrologic Measurement Watershed Restoration Project Electives Hydrologic Field Projects Hydrologic Field Projects Hydrologic Field Projects Hydrologic Field Projects Hydrologic Field Projects Hydrologic Field Projects | 3 1 1 1 1 |
| Water Re WATER WATER WATER WATER WATER WATER WATER WATER WATER WATER | 210 216 0ecial 131 132 133 231 232 233 ts may | Project Electives Hydrologic Measurement Watershed Restoration Project Electives Hydrologic Field Projects Hydrologic Field Projects Hydrologic Field Projects Hydrologic Field Projects Hydrologic Field Projects Hydrologic Field Projects | 3 1 1 1 1 |
| Water Re WATER WATER WATER WATER WATER WATER WATER WATER WATER WATER ************************************ | esourc 210 216 becial 131 132 133 231 232 233 ts may im of ti credits es gro | EVALUATE: A series of the se | 3 1 1 1 1 |
| Water Re WATER WATER WATER WATER WATER WATER WATER WATER WATER WATER WATER ************************************ | esourc 210 216 necial 131 132 133 231 232 233 ts may im of ti credits es grou lated e | Project Electives Hydrologic Measurement Watershed Restoration Project Electives Hydrologic Field Projects Hydrologic Field Projects Hydrologic Field Projects Hydrologic Field Projects Hydrologic Field Projects Hydrologic Field Projects y select courses from the electives group for a hree credits. are required from the Water Special Project up. | 3 1 1 1 1 |
| Water Re WATER | esourc 210 216 0ecial 131 132 133 231 232 233 ts may im of th credits es grou lated e or cor | Project Electives Hydrologic Measurement Watershed Restoration Project Electives Hydrologic Field Projects Hydrologic Field Projects Hydrologic Field Projects Hydrologic Field Projects Hydrologic Field Projects y select courses from the electives group for a hree credits. are required from the Water Special Project up. | 3 1 1 1 1 1 |
| Water Re WATER | esourc 210 216 0ecial 131 132 133 231 232 233 ts may im of ti credits es grou lated e or cor tional o | Project Electives Hydrologic Measurement Watershed Restoration Project Electives Hydrologic Field Projects Hydrologic Field Projects Hydrologic Field Projects Hydrologic Field Projects Hydrologic Field Projects Hydrologic Field Projects y select courses from the electives group for a hree credits. are required from the Water Special Project up. | 3 1 1 1 1 1 |

- Students must pass a competency test. NATRS 220 contains a prerequisite of NATRS 120 or permission of instructor. Student must be enrolled in the Water Resources Technology or the Water and Wastewater program.
- 5 Student must be enrolled in the Water and Wastewater program.
- 6 Student must be enrolled in the Water Resources Technology program.
- Student must be enrolled in the Water Resource Technology or the Water and Wastewater program.

WELDING AND FABRICATION **Certificate: SCC**

Welding is one of the most common and dependable methods of joining materials together. Fabrication is the process of blueprint reading, layout, cutting and preparing materials for assembly.

The competency-based Welding and Fabrication program trains the student in the safe and correct procedures used in shielded metal-arc welding, oxy-acetylene welding, MIG and TIG welding, and air arc and plasma cutting. Course content also includes the safe use and care of hand and power equipment found in welding and fabrication shops. Some of the equipment includes overhead cranes, grinders, power saws, ironworker, cold saws and drill presses.

The student will be prepared for entry into many trade and industry opportunities, including construction, aerospace, automotive, heavy equipment, machinist, ship building and agriculture. This is only a small cross-section of job opportunities available to the student who successfully completes the program.

Certificate

First Quarter

| APLED | APLED 123 Leadership Skills for Business and Industry | | 4 |
|----------|---|--|----|
| WELD | ELD 113 Welding Math | | 1 |
| WELD | 114 | Introduction to Blueprint Reading | 2 |
| WELD | 115 | Introduction to Fabrication | 3 |
| WELD | 116 | Shielded Metal Arc Welding Theory | 3 |
| WELD | 117 | Shielded Metal Arc Welding Applications ³ | 7 |
| | | Total | 20 |
| | | | |
| Second (| Quarte | er | |
| APLED | 125 | Employment Preparation ¹ | 3 |
| WELD | 121 | Intermediate Welding Math | 1 |
| WELD | 123 | Intermediate Blueprint Reading | 2 |
| WELD | 124 | Advanced Shielded Metal | |
| | | Arc Welding Theory | 3 |

| | | | 0 |
|------|-----|-------------------------------|-------|
| WELD | 125 | Advanced Shielded Metal | |
| | | Arc Welding Applications | 1-7 |
| WELD | 126 | Intermediate Fabrication | 3 |
| WELD | 127 | Fabrication Machine Operation | 2 |
| | | Total | 15–21 |
| | | | |
| | | | |

Third Quarter

| i nira Qu | larter | | | |
|----------------|--------|--------------------------------|-------|--|
| WELD | 131 | Advanced Welding Math | 1 | |
| WELD | 133 | Advanced Blueprint Reading | 2 | |
| WELD | 134 | Specialty Welding Theory | 3 | |
| WELD | 135 | Specialty Welding Applications | 1-7 | |
| WELD | 136 | Advanced Fabrication | 3 | |
| | | Total | 10–16 | |
| Fourth Quarter | | | | |

| Optional Summer Welding Courses ⁴ | 0-15 |
|--|------|
| Total | 0–15 |

45-72 credits are required for the Certificate

Optional Summer Welding Courses

| WELD | 143 | Specialized Blueprint | 2 |
|------|-----|-------------------------|-----|
| WELD | 144 | Specialized Theory | 3 |
| WELD | 145 | Specialized Fabrication | 3 |
| WELD | 146 | Specialized Welding | 1-7 |
| | | | |

- This related education requirement may be met by any course or combination of courses approved by the instructional dean.
- WELD 113 may be repeated up to three times for a maximum of three credits to be applied to the certificate.
- WELD 117, 1-7 credits may be applied using prior learning experience.
- 4 WELD 143,144,145, and 146 for Welding and Fabrication students desiring to receive additional specialized training may be taken during the summer quarter. Instructor permission required. Completion of these courses will entitle the student to a certificate of completion issued by the dean of instruction for Technical Education.

Program / Course Abbreviations

| ABF | AUTOMOTIVE COLLISION AND REFINISHING TECHNICIAN |
|-------|--|
| ACCT | ACCOUNTING |
| AGGEN | AGRICULTURE, GENERAL |
| AGHRT | AGRICULTURE/HORTICULTURE |
| AIRC | HEATING, VENTILATION, AIR CONDITIONING AND REFRIGERATION |
| ANTH | ANTHROPOLOGY |
| APLED | APPLIED EDUCATION |
| AQUAT | AQUATICS |
| ARCFT | AVIATION MAINTENANCE TECHNOLOGY |
| | ARCHITECTURAL TECHNOLOGY |
| | ART |
| AS | ADDICTION STUDIES |
| ASL | AMERICAN SIGN LANGUAGE |
| | ASTRONOMY |
| AUDIO | |
| AUTO | AUTOMOTIVE TECHNOLOGY |
| BAK | BAKING: PROFESSIONAL PASTRIES AND SPECIALTY CAKES |
| BIOEQ | BIOMEDICAL EQUIPMENT TECHNICIAN |
| | BIOLOGY |
| BIOL | |
| BOT | BOTANY |
| BT | BUSINESS TECHNOLOGY |
| BUS | BUSINESS, GENERAL |
| CAD | CAD DESIGN AND DRAFTING |
| CAPPS | |
| CATT | COMPUTER APPLICATION TECHNOLOGY TRAINING |
| | CHEMISTRY |
| | CHINESE |
| CIS | COMPUTER INFORMATION SYSTEMS |
| CJ | CRIMINAL JUSTICE |
| CJPE | CRIMINAL JUSTICE PHYSICAL EDUCATION |
| CMST | COMMUNICATION STUDIES |
| COOP | COOPERATIVE EDUCATION |
| COS | COSMETOLOGY |
| CS | COMPUTING-COMPUTER SCIENCE |
| CUL | CULINARY ARTS |
| DENT | DENTAL ASSISTING |
| DRMA | DRAMA |
| ECED | EARLY CHILDHOOD EDUCATION |
| ECHO | ECHOCARDIOGRAPHY |
| ECON | ECONOMICS |
| EDUC | EDUCATION PARAPROFESSIONAL, SPECIAL EDUCATION |
| ELECT | ELECTRONICS ENGINEERING TECHNICIAN |
| ELMT | ELECTRICAL MAINTENANCE AND AUTOMATION |
| EMS | EMERGENCY MEDICAL SERVICES |
| ENGL | ENGLISH |
| ENGR | ENGINEERING |
| ENVS | ENVIRONMENTAL SCIENCES |
| FILM | FILM |
| FLPT | HYDRAULIC AND PNEUMATIC AUTOMATION TECHNICIAN |
| FMT | HEALTH/FITNESS TECHNICIAN |
| FOD | FIRE OFFICER |
| FRCH | FRENCH |
| FS | FIRE SCIENCE TECHNOLOGY |
| FSCI | FUNDAMENTALS OF SCIENCE |
| GENST | GENERAL STUDIES |
| GEOG | GEOGRAPHY |
| GEOL | GEOLOGY |
| GOVT | GOVERNMENT, STUDENT |
| 0011 | SOVERAMENT, STODENT |

| | GRAPHIC DESIGN |
|-------|--|
| GUID | GUIDANCE |
| HED | HEALTH EDUCATION |
| HEQ | DIESEL/HEAVY DUTY EQUIPMENT |
| HIM | HEALTH INFORMATION MANAGEMENT |
| HIS | HEARING INSTRUMENT SPECIALIST |
| HIST | HISTORY |
| HLTH | HEALTH |
| HM | HOTEL AND RESTAURANT MANAGEMENT |
| HS | HUMAN SERVICES |
| HSGER | GERONTOLOGY PARAPROFESSIONAL |
| HUM | HUMANITIES |
| IBE | INTEGRATED BUSINESS AND ENTREPRENEURSHIP PROGRAM |
| ICT | INVASIVE CARDIOVASCULAR TECHNOLOGY |
| INTDS | INTERIOR DESIGN |
| IS | COMPUTING-INFORMATION SYSTEMS |
| ISIT | INFORMATION SYSTEMS AND TECHNOLOGY |
| ITP | INTERPRETER TRAINING PROGRAM |
| JAPN | JAPANESE |
| IOURN | JOURNALISM |
| | PARALEGAL |
| LINE | |
| | LIBRARY AND INFORMATION SERVICES |
| LSEC | |
| MA | MEDICAL ASSISTANT |
| | MACHINIST/CNC TECHNOLOGY |
| | MACHINISTICNE LECTINOLOGY |
| MILSC | MILITARY SCIENCE |
| MMGT | MANAGEMENT |
| MSEC | MEDICAL OFFICE SPECIALIST |
| MUSEC | MUSIC |
| MUSPL | MUSIC PRIVATE LESSONS |
| NATRS | NATURAL RESOURCE MANAGEMENT |
| NURS | NURSING PROGRAM (R.N., L.P.N.) |
| NUTRI | |
| OCEA | |
| OR-PR | |
| OTA | OCCUPATIONAL THERAPY ASSISTANT |
| • | PALEONTOLOGY |
| PE | PHYSICAL EDUCATION |
| | PHARMACY TECHNICIAN |
| PHIL | PHILOSOPHY |
| PHOTO | PHOTOGRAPHY |
| PHYS | PHYSICS |
| POLS | POLITICAL SCIENCE |
| PSYC | PSYCHOLOGY |
| PTA | PHYSICAL THERAPIST ASSISTANT |
| RAD | RADIOLOGY TECHNOLOGY |
| RT | RESPIRATORY CARE |
| SAL | SALISH |
| SOC | SOCIOLOGY |
| SONO | DIAGNOSTIC MEDICAL SONOGRAPHY |
| SPAN | SPANISH |
| SURG | SURGICAL TECHNOLOGY |
| VASC | VASCULAR TECHNOLOGY |
| | WATER RESOURCES TECHNOLOGY |
| WELD | WELDING AND FABRICATION |
| ZOOL | ZOOLOGY |
| 2002 | 2002001 |

Course Descriptions

For the most current information on individual courses, view our course descriptions online at: http://icatalog.ccs.spokane.edu/course/default.aspx

AUTOMOTIVE COLLISION AND REFINISHING TECHNICIAN

ABF 111 - Shop Procedures (7 cr)

The course introduces students to basic shop operation including safety precautions of common collision repair equipment work order and estimate reading along with parts ordering. (SCC)

ABF 112 - Unibody and Frame Alignment and Repair (10 cr)

Students taking this course will be instructed in measurement and correction of structural damage, along with replacement of welded on panels and sections. (SCC)

ABF 113 - Introduction to Job Safety, Tools, and Equipment (4 cr)

Students are introduced to personal safety and health protection requirements found in typical body shops. General shop procedures and operations are emphasized. Prerequisite: Concurrent enrollment in ABF 114, 115, 116. (SCC)

ABF 114 - Introduction to Unibody and Frame Alignment and Repair (4 cr)

Applications of basic auto sheet metal work, body shop power tools and welding equipment are introduced. Safety procedures and minor auto body repairs are emphasized. Prerequisite: Concurrent enrollment in ABF 113, 115, 116. (SCC)

ABF 115 - Basic Metal Straightening and Panel Alignment (4 cr)

Auto plastics and other body shop repairs are introduced. Major collision diagnosis, body alignment techniques and corrosion protection are emphasized. Prerequisite: Concurrent enrollment in ABF 113, 114, 116. (SCC)

ABF 116 - Parts Identification (4 cr)

Students learn to estimate major collision damage, auto body repair and finishing costs. Classifying body damage and parts identification are included. Prerequisite: Concurrent enrollment in ABF 113, 114, 115. (SCC)

ABF 117 - Automotive Collision MIG Welding (3 cr)

This course introduces students to the basic MIG skills required for success in the automotive collision and refinishing field. A variety of basic welding skills are introduced with emphasis on welding safety. (SCC)

ABF 123 - Major Panel Replacement (5 cr)

Students learn the basic theory of major panel replacement. Alignment, replacement procedures and the use of plastics are emphasized. Prerequisite: Concurrent enrollment in ABF 124, 125, 126. (SCC)

ABF 124 - Mechanical Components (3 cr)

Students are introduced to automobile body construction types and their common mechanical components. Areas of emphasis include energy absorbers, suspension and steering systems, and CV joints. Prerequisite: Concurrent enrollment in ABF 123, 125, 126. (SCC)

ABF 125 - Major Unibody and Frame Repair (5 cr)

Students learn the basic theory and application of major unibody and frame repairs. Metalworking, glass replacement, fiberglass repair and universal measuring systems are emphasized. Prerequisite: Concurrent enrollment in ABF 123, 124, 126. (SCC)

ABF 126 - Fundamentals of Shop Procedures (3 cr)

Students learn practical applications found in typical body shops. Hydraulic equipment, corrosion proofing, welding and cost estimating are emphasized. Prerequisite: Concurrent enrollment in ABF 123, 124, 125. (SCC)

ABF 133 - Introduction to Industrial Safety and Hygiene (3 cr)

Students learn basic theory and techniques of industrial safety and hygiene. Personal safety and health practices, and safe operating procedures for shop equipment are emphasized. Prerequisite: Concurrent enrollment in ABF 134, 135, 136, 137. (SCC)

ABF 134 - Introduction to Interior and Exterior Surface Preparation (4 cr)

Basic principles of interior and exterior surface preparation are introduced. Students analyze the components of primers, undercoats and topcoats. (SCC)

ABF 135 - Basic Polishing and Detailing (3 cr)

Students are introduced to polishing and detailing procedures. Washing, compounding and polishing, and interior and exterior detailing are emphasized. Prerequisite: Concurrent enrollment in ABF 133, 134, 136, 137. (SCC)

ABF 136 - Introduction to Topcoat Systems and Application Procedures (3 cr)

Students are introduced to the basic principles of topcoat application with emphasis on the types of automotive topcoat systems and their application procedures. The development of skillful spraying techniques is introduced. Prerequisite: Concurrent enrollment in ABF 133, 134, 135, 137. (SCC)

ABF 137 - Basic Color Matching and Paint Mixing Fundamentals (3 cr)

Students are introduced to the basic principles of color matching and paint mixing. Students practice color analysis and tinting. Prerequisite: Concurrent enrollment in ABF 133, 134, 135, 136. (SCC)

ABF 138 - Intermediate Interior and Exterior Surface Preparation (4 cr)

This course offers practical applications of interior and exterior surface preparation. Surface defects, sanding techniques and primers are emphasized. Prerequisite: ABF 134, 135, 136, 137. (SCC)

ABF 139 - Intermediate Paint Application, Color Matching, and Paint Mixing (4 cr)

This course offers applications of detailing and polishing techniques. Carpet and engine cleaning are emphasized. (SCC)

ABF 140 - Materials and Cost Estimation (3 cr)

Part prices, labor costs and refinishing time calculations are emphasized. (SCC)

ABF 141 - Intermediate Finessing, Compounding, and Detailing (5 cr)

This course emphasizes practical applications of color matching, paint mixing and tinting procedures. (SCC)

ABF 243 - Unibody and Frame Alignment and Repair (6 cr)

Students learn a variety of advanced applications of auto sheet metal work, body shop power tools and welding equipment techniques. Prerequisite: Concurrent enrollment in ABF 244, 245. (SCC)

ABF 244 - Advanced Metal Straightening and Panel Alignment Methods (5 cr)

Students practice advanced methods of metal straightening and panel alignment. Prerequisite: Concurrent enrollment in ABF 243, 245. (SCC)

ABF 245 - Estimating Applications (5 cr)

Students focus on advanced estimating procedures and techniques for a variety of auto repairs. Prerequisite: Concurrent enrollment in ABF 243, 244. (SCC)

ABF 253 - Intermediate Major Panel Replacement Applications (6 cr)

This course continues with the concepts introduced in ABF 123 with emphasis on plastic welding, patching and rust repair. Prerequisite: Concurrent enrollment in ABF 254, 255. (SCC)

ABF 254 - Intermediate Mechanical Components Applications (4 cr)

This course continues with the concepts introduced in ABF 124. Students practice diagnostic and repair techniques for energy absorbers, steering and cooling systems. Prerequisite: Concurrent enrollment in ABF 253, 255. (SCC)

ABF 255 - Intermediate Major Unibody and Frame Methods (6 cr)

This course continues with the theory and application of major unibody and frame repair. Hydraulic equipment, various welding techniques and repair of miscellaneous automobile components are emphasized. Prerequisite: Concurrent enrollment in ABF 253, 254. (SCC)

ABF 266 - Cooperative Education Seminar (1-2 cr)

For course description, see Cooperative Education. (SCC)

ABF 267 - Cooperative Education Work Experience (1-18 cr) For course description, see Cooperative Education. (SCC)

ABF 270 - Sheet Metal Restoration Welding (4 cr)

Instruction in welding related to the restoration and fabrication of sheet metal. Instruction in welding safety, equipment, and processes. (SCC)

ABF 271 - Sheet Metal Shaping (4 cr)

Instruction in basic metallurgy and properties; using these properties to modify and shape sheet metal. (SCC)

ABF 272 - Bucks and Forms (3 cr)

Instruction in the design and construction of various bucks, forms and tooling used to shape metal. (SCC)

ABF 273 - Sheet Metal and Restoration and Repair (5 cr)

Instructing in basic straightening of damaged sheet metal; filling and preparation for restoration. (SCC)

ACCOUNTING

ACCT 103 - Fundamental Bookkeeping Procedures (3 cr) This course is an introduction to fundamental bookkeeping for a sole proprietorship. It focuses on learning how and when to record transactions and how and when to prepare financial statements. (SFCC)

ACCT 121 - Payroll Procedures (3 cr)

This course enables students to properly prepare, file and report quarterly payroll taxes; to prepare all necessary journal entries for payroll expenses; and to prepare all necessary end-of-year reports for payroll. Prerequisite: ACCT 103 or permission of instructor. (SCC)

ACCT 122 - Business Tax Accounting (1 cr)

This course enables students to understand and account for the additional taxes (other than income taxes) paid by business in Washington state, Spokane County and the City of Spokane. Prerequisite: ACCT 103 or permission of instructor. (SCC)

ACCT 140 - QuickBooks (2-5 cr)

Formerly ACCT 141. This course offers a practical approach to computerized accounting using QuickBooks Pro. Students are exposed to basic setup and entry of daily accounting transactions and learn to manage revenue and expense accounts, payroll, inventory, bank reconciliation, and year-end procedures. This course does not fulfill the requirements for students majoring in accounting. (SFCC)

ACCT 141 - QuickBooks (1-5 cr)

This course offers a practical approach to computerized accounting using QuickBooks Pro. Students are exposed to basic setup and entry of daily accounting transactions and learn to manage revenue and expense accounts, payroll, inventory, bank reconciliation, and year-end procedures. This course does not fulfill the requirements for students majoring in accounting. (SCC)

ACCT 142 - Advanced QuickBooks (1-5 cr)

This course offers a practical approach to computerized accounting using QuickBooks Pro. Students are exposed to advanced setup for service and merchandising companies. Processing quarterly payroll including, preparation of quarterly tax reports, tax transmittals and W2 forms are addressed. This course does not fulfill requirements for students majoring in accounting. Prerequisite: ACCT 141 or permission of instructor. (SCC)

ACCT 151 - College Accounting I (5 cr)

Students learn the basic concepts of accounting for office, sales and small business personnel. The basic accounting cycle, use of general journals, worksheets, adjusting and closing entries, and complete financial statement preparation are emphasized. Payroll processing and employer payroll tax calculations, and reporting also are covered. These courses must be taken in sequence. These courses do not fulfill requirements for students majoring in accounting. (SCC)

ACCT 152 - College Accounting II (5 cr)

Students learn the basic concepts of accounting for office, sales and small business personnel. The basic accounting cycle, use of general journals, worksheets, adjusting and closing entries, and complete financial statement preparation are emphasized. Payroll processing and employer payroll tax calculations, and reporting also are covered. These courses must be taken in sequence. These courses do not fulfill requirements for students majoring in accounting. (SCC)

ACCT 161 - Payroll Procedures (4 cr)

This course enables students to properly prepare, file and report quarterly payroll taxes; prepare all necessary journal entries for payroll expenses; and prepare all essential end-of-the-year reports for payroll. Prerequisite: ACCT 151, ACCT& 201 or permission of instructor. (SCC)

ACCT 162 - Business Tax Accounting (1 cr)

This course enables students to understand and account for the additional taxes (other than income taxes) paid by businesses in Washington State, Spokane County and the City of Spokane. Prerequisite: SCC: ACCT 151, ACCT& 201 or permission of instructor. (SCC)

ACCT& 201 - Prin of Accounting I (5 cr)

An introduction to the fundamentals of accounting, with application to sole proprietorship, partnership and corporate forms of business organization. Must be taken in sequence. (SCC, SFCC)

ACCT& 202 - Prin of Accounting II (5 cr)

An introduction to the fundamentals of accounting, with application to sole proprietorship, partnership and corporate forms of business organization. Must be taken in sequence. Prerequisite: A grade of 2.0 or better in ACCT& 201 or permission of instructor. (SCC, SFCC)

ACCT& 203 - Prin of Accounting III (5 cr)

Students learn presentation and interpretation of financial data for managerial use. Applications of accounting output to managerial control and planning are emphasized. Prerequisite: ACCT& 201 or permission of instructor. (SCC, SFCC)

ACCT 204 - Accounting Integration (5 cr)

Students develop an understanding of the accounting information system, sales and acquisition cycles, internal controls, accounting fraud, accounting for not-for-profit organizations as well as federal taxation and tax return preparation. Prerequisite: ACCT& 201, ACCT 151 or permission of instructor. (SCC)

ACCT 212 - Accounting Applications and Analysis (5 cr)

Students learn a more in depth study of specific topics including accounting for property, plant and equipment (fixed assets), natural resources, intangible assets, accounting issues of partnerships, corporations, statements of cash flows, financial statement analysis and managerial accounting. Financial statement preparation and analysis are emphasized. This course does not fulfill requirements for accounting transfer students. Prerequisite: ACCT 152 or ACCT& 202. (SCC)

ACCT 219 - Payroll and Business Taxes (5 cr)

This course is designed to give students a thorough understanding of the most common taxes (other than income taxes) paid by businesses in the states of Idaho and Washington, Spokane County and the City of Spokane. Emphasis will be placed on manual and computerized payroll preparation, understanding the difference between an employee and an independent contractor, and determining when it's necessary to file 1099 forms and the Combined Excise Tax Return form. Current rates and forms will be used. (SFCC)

ACCT 221 - Tax I: Individual Income Tax (5 cr)

This course covers the tax concepts that affect most individuals. At the completion of this course, students will be able to prepare a 1040EZ, 1040A, and 1040 form using Federal tax forms and/or tax software. Students will recognize the social, economic, and political factors that Congress considers when they create tax law. Students will also be able to utilize tax planning skills for preparing current and future tax returns. (SCC)

ACCT 222 - Tax II: Taxation of Corporations, Partnerships and S Corps (5 cr)

This course introduces the tax issues facing corporations, partnerships, and S corporations. This course emphasizes the tax code and regulations that relate to these entities, and it examines the transactions that most commonly affect them. In addition, this course assists students in preparing to sit for the IRS Enrolled Agent Exam. Prerequisite: ACCT 221. (SCC)

ACCT 288 - Cooperative Education Work Experience (No Seminar) (1-18 cr)

For course description, see Cooperative Education. (SCC)

ACCT 320 - Accounting for Managers (5 cr)

This course covers accounting theory, application, and language, with an emphasis from a manager's perspective. Topics include: balance sheets, income statements, and statements of cash flows, financial statement analysis, cost behavior, and capital budgeting. Each student completes an accounting project designed to integrate course topics into a business project. (SFCC)

AGRICULTURE, GENERAL

AGGEN 151 - Shop Skills (4 cr)

This course offers practical knowledge in a wide range of basic mechanical skills found in various agricultural industries. Safe use of hand and power tools, carpentry and woodworking, plumbing, electricity, concrete and masonry, and basic metalworking are emphasized. (SCC)

AGGEN 152 - Arc Welding (4 cr)

This course offers theory and practical applications using arc welding equipment to perform common maintenance and repairs that are encountered in agricultural occupations. Welding mild steel in flat, horizontal, vertical and overhead positions is emphasized. Students learn to select proper tools and equipment. Correct safety practices are stressed. (SCC)

AGGEN 153 - Oxy-acetylene Welding (4 cr)

This course offers theory and practical applications using oxy-acetylene welding equipment to perform common maintenance and repairs that are encountered in agricultural occupations. Students learn to select and use oxy-acetylene welding and cutting equipment. (SCC)

AGGEN 154 - Small Engine Operation and Maintenance (4 cr)

This course offers theory and practical applications of two- and four-cycle one-cylinder gas engines. The operation, care, maintenance and adjustment of engines common to agricultural applications are emphasized. (SCC)

AGGEN 156 - Equipment Operation and Maintenance (2-5 cr) Safety, operation and preventive maintenance of engines and equipment used in Environmental Science occupations are emphasized. Use of two-and four-cycle small engines is included. Students learn to operate a variety of small tractors and landscape equipment. Students learn safe truck and trailer operation, backing, and maneuvering through obstacles. Students are required to hold a valid driver's license in order to enroll in the course. (SCC)

AGGEN 157 - Arc Welding (1 cr)

Theory and practical applications in the selection and use of arc welding equipment are offered in the course. Performing basic maintenance, repair and construction in various mechanical fields are emphasized. (SCC)

AGGEN 158 - Oxy-acetylene Welding (1 cr)

Theory and practical applications using oxy-acetylene welding and cutting equipment to perform common maintenance, repair and construction jobs that are encountered in a variety of mechanical fields are introduced. (SCC)

AGGEN 161 - Advanced Maintenance Welding (1-4 cr)

This course introduces students to specific welding-related construction and repair jobs that are encountered in the industry. A menu concept is provided for individual programs to select the competencies required for their individual needs. The following competencies listed may include, but are not limited to, metal identification, specialized oxy-acetylene cutting, hard-facing, soldering and repairing metal parts utilizing a variety of welding processes. Prerequisite: AGGEN 152, 153 or permission of instructor. (SCC)

AGGEN 162 - Metal Art (1 cr)

This course introduces the student to different forms of cutting and welding that can be used to create artistic forms. Students use new and discarded materials and cutting and welding forms which include, but are not limited to oxy/acetylene welding and cutting, MIG welding, brazing, soldering, and plasma cutting. (SCC)

AGRICULTURE/HORTICULTURE

AGHRT 101 - Basic Crop Science (5 cr)

This course introduces students to the basic principles of agronomy and the science which underlies those principles. Emphasis is placed on crop management practices such as tillage methods, variety selection, and monitoring of crop growth and development. Course objectives are based on the requirements of Certified Crop Advisor exam. (SCC)

AGHRT 102 - Pesticides and Fertilizer Application Equipment (2-4 cr)

This course emphasizes the practical application of pesticides and includes discussion and use sprayers and spreaders. Sprayer calibration is taught. Pesticide chemistry, selectivity and mode of action are introduced. Students prepare for the pesticide application exam. (SCC)

AGHRT 103 - Introduction to Greenhouse and Nursery Production (3 cr)

Students are introduced to greenhouse management and production. Variable physical conditions found in greenhouse environments and how they relate to plant growth and development are emphasized. Principles of greenhouse construction and operation also are covered. (SCC)

AGHRT 104 - Principles of Pest Management (5 cr)

Students are introduced to diseases, insects and weeds that pose problems to agricultural products in both the growth and storage stage. Options available to reduce or eliminate these problems for specific pest groups are discussed. Management, cultural practices, biological and natural controls, barriers, legislative controls and principles of chemical control are emphasized. (SCC)

AGHRT 105 - Horticultural Retail Sales (3 cr)

This course provides hands-on experience in the operation of the on-campus retail garden center, including operations, marketing and customer relations. (SCC)

AGHRT 106 - Greenhouse and Nursery Management I (5 cr)

This is the first in a series of three classes where students become engaged in the scheduling and production of flowering, tropical and bedding plants. Environmental factors affecting plant growth, manipulating the greenhouse environment, soil and water testing, fall propagation and nursery operations are emphasized. (SCC)

AGHRT 107 - Greenhouse and Nursery Management II (5 cr)

This class is the second in a series of three where students gain hands-on experience in scheduling and production of flowering, tropical and bedding plants. Greenhouse operations, site selection, greenhouse and nursery layout, heating and cooling, seed propagation, winter nursery operations, and bedding plant seed scheduling are emphasized. Prerequisite: AGHRT 106 or permission of instructor. (SCC)

AGHRT 108 - Greenhouse and Nursery Management III (4 cr)

This class is the third in a series of three where students become engaged in the scheduling and production of flowering, tropical and bedding plants. Plug production, production planning, determining cost and profit, pest and disease management, and spring nursery layout and operations are emphasized. Prerequisite: AGHRT 107 or permission of instructor. (SCC)

AGHRT 109 - Introduction to Vegetable Gardening (1-3 cr)

Students are introduced to vegetable gardening practices as they relate to our climate. Topics covered include season extenders, planning, soil preparation, planting time, acclimation, and sustainable gardening practices. (SCC)

AGHRT 110 - Fall Landscape Plant Materials (5 cr)

Students learn to identify fall landscape plants and their use in the Inland Northwest. Terminology of woody plant parts and plant nomenclature is emphasized. (SCC)

AGHRT 111 - House Plants (5 cr)

This course introduces students to plant material, cultural requirements and how to properly select plants found in floral shops, mass market outlets and interior plantscapes. Indoor environment also is studied. (SCC)

AGHRT 112 - Spring Landscape Plant Materials (5 cr)

Students learn to identify spring landscape plants and their use in the Inland Northwest. Conifers, broadleaf evergreens, and spring blooming trees and shrubs are emphasized. (SCC)

AGHRT 115 - Pruning (2-3 cr)

This course introduces students to the art and science of pruning ornamental trees and shrubs using a combination of lectures and hands-on field experience. (SCC)

AGHRT 116 - Green Industry Business Management (5 cr)

This practical course introduces basic principles of management found in the agriculture/horticulture industry. Analyzing situations and establishing appropriate procedures are emphasized. Topics presented include types of ownership, basic financial management, personnel management and government agency functions. (SCC)

AGHRT 126 - Computer Essentials for Environmental Sciences (2-5 cr)

This nonprogramming course introduces students to the use of computers as a tool for evaluating programs in agriculture, horticulture and related fields. Students are familiarized with key software through actual applications to problems in their chosen field of study. Windows, word processing, spreadsheets, databases, graphics and telecommunications are emphasized. (SCC)

AGHRT 171 - Agricultural Leadership Training (1 cr)

This course orients students with the agricultural program, the campus and community. Study skills are presented on topics such as study techniques, time management, communication and leadership styles. Leadership skills are encouraged through participation in a variety of department, club and civic activities. (SCC)

AGHRT 172 - Agricultural Leadership Training (1 cr)

This course orients students with the agricultural program, the campus and community. Study skills are presented on topics such as study techniques, time management, communication and leadership styles. Leadership skills are encouraged through participation in a variety of department, club and civic activities. (SCC)

AGHRT 173 - Agricultural Leadership Training (1 cr) This course orients students with the agricultural program, the campus and community. Study skills are presented on topics such as study techniques, time management, communication and leadership styles. Leadership skills are encouraged through participation in a variety of department, club and civic activities. (SCC)

AGHRT 181 - Agricultural Leadership Training (1 cr) This course orients students with the agricultural program, the campus and community. Study skills are presented on topics such as study techniques, time management, communication and leadership styles. Leadership skills are encouraged through participation in a variety of department, club and civic activities. (SCC)

AGHRT 184 - AgHort Occupational Preparation (1-3 cr)

Students learn about career opportunities in the fields of Agriculture and Horticulture. They will attend and participate in conferences and workshops associated with their chosen career field as available. They will continue to lean and practice leadership skills through service learning and other community service activities. (SCC)

AGHRT 185 - AgHort Occupational Preparation (1-3 cr)

Students learn about career opportunities in the fields of Agriculture and Horticulture. They will also find out their learning style and learn about scholarships and campus resources to help them succeed in school. They will learn and practice leadership skills through service learning and other community service activities. (SCC)

AGHRT 186 - AgHort Occupational Preparation (1-3 cr)

Students learn about career opportunities in the field of Landscaping: salaries, job duties, employing agencies in the public and private sectors and complete specific employment applications, resumes and letters of inquiry, and employment portfolios. Students are required to evaluate their work experience and submit comprehensive written and oral reports. Prerequisite: Permission of instructor. (SCC)

AGHRT 187 - AgHort Occupational Preparation (1-3 cr)

Students learn about career opportunities in the field of Landscaping: salaries, job duties, employing agencies in the public and private sectors and complete specific employment applications, resumes and letters of inquiry. They contact employers for interviews and follow-up. Prerequisite: Permission of instructor. (SCC)

AGHRT 195 - Practicum (2-3 cr)

This course offers practical lab experience involving typical problems that arise in the various agricultural/horticultural fields such as florist, greenhouse/nursery and landscape/turf. The areas of emphasis vary depending on the students' chosen program of study. (SCC)

AGHRT 201 - Landscape Installation (4-5 cr)

This course offers hands-on experience in installing landscapes using live projects on and off campus. Students develop competencies to become certified landscape technicians. Prerequisite: Concurrent enrollment in AGHRT 206. (SCC)

AGHRT 202 - Principles of Irrigation (4-5 cr)

This course introduces residential, commercial and agricultural irrigation principles. Sprinkler irrigation methods and designs, and performance characteristics of sprinkler irrigation equipment are emphasized. Prerequisite: Permission of instructor. (SCC)

AGHRT 204 - Landscape Design 1 (4 cr)

This course introduces landscape design and graphical techniques used in the landscape design profession. Students use processes and principles to design landscapes. A history of landscape design and how it has influenced the styles of today is presented. Students learn to draw landscape components and complete landscape designs by hand. (SCC)

AGHRT 205 - Landscape Design 2 (4 cr)

This course introduces advanced landscape design principles. Students use processes and principles to design several partial and whole landscapes using hand-drawn designs as well as computer aided drafting (CAD software). Prerequisite: AGHRT 204. (SCC)

AGHRT 206 - Landscape Construction (4-5 cr)

Students are introduced to the principles and procedures of landscape construction. Estimation, bidding and site preparation, as well as the removal and installation of landscape features such as plant materials, irrigation systems and a variety of hard features. Prerequisite: AGGEN 151 or permission of instructor. (SCC)

AGHRT 211 - Floral Design Techniques (5 cr)

This course introduces students to basic methods and principles of floral design with emphasis on the care and handling of flowers and plants, the use of color in floral arrangements, and the creation of a variety of floral arrangements. (SCC)

AGHRT 212 - Floral Design Applications (5 cr)

This course continues with the concepts introduced in AGHRT 211 emphasizing advanced floral arrangement methods. The study of historical periods of design and their application to contemporary floral design methods is presented. Prerequisite: AGHRT 211 or permission of instructor. (SCC)

AGHRT 213 - Retail Floristry (5 cr)

Students are introduced to the principles of successful florist management. Effective merchandising techniques and the creation of advanced floral arrangements are emphasized. Prerequisite: AGHRT 212 or permission of instructor. (SCC)

AGHRT 219 - Soil Management and Fertility (5 cr)

This course gives students a working knowledge of soil management. Students learn the role of each of the essential elements in plant growth and the deficiency symptoms of each. They also learn how the nutrients are stored in the soil and how they become available to plants. Numerous types of fertilizers and how each is used by plants are introduced. Various agricultural and horticultural soil management practices are discussed as well as how each affects the condition of the soil. (SCC)

AGHRT 225 - Weed Biology and Control (5 cr)

This course introduces students to the basic principles and economic significance of weed biology, identification and control. Students learn to identify weeds in all stages of growth and the common characteristics of each of the weed families. The principles of weed control using herbicides are emphasized. A weed collection is required. Prerequisite: AGHRT 104 is recommended. (SCC)

AGHRT 226 - Turfgrass Management (5 cr)

This course introduces theory and practical application in landscape management techniques. Grass selection and establishment, soil management, fertilization, irrigation, mowing, pest management and other cultural practices required in the care of home lawns, parks and golf courses are emphasized. Prerequisite: AGHRT 104 or permission of instructor. (SCC)

AGHRT 228 - Arboriculture (5 cr)

This course presents the study of woody urban landscape plant forms including growth, selection, pruning, planting, maintenance and problem solving. (SCC)

AGHRT 230 - Plant Problem Diagnosis (5 cr)

Students study insects, diseases and environmental factors that adversely affect the health of agricultural and greenhouse crops and landscape plants. Problem diagnosis, identification of causal agent(s), and preparing recommendations for both chemical and cultural controls are emphasized. Prerequisite: AGHRT 104 or permission of instructor. (SCC)

AGHRT 232 - Pest Management Project (2 cr)

This is the capstone of the pest management series of courses. Students create a pest management plan for a crop or landscape including a variety of control measures for key pests. Students learn to select control measures based on a number of criteria. Prerequisite: AGHRT 104 is recommended and concurrent enrollment in AGHRT 230. (SCC)

AGHRT 234 - Bidding and Estimating (2-3 cr)

This course introduces the student to bidding and estimating practices for landscape design, construction, installation, and maintenance. Students learn to account for the numerous factors affecting the cost of these landscape practices. Contracts and risk management are also taught. (SCC)

AGHRT 240 - Practicum - Floral Design Projects 1 (3 cr)

This course provides practical lab experience involving advanced floral design techniques and floral shop management. Prerequisite: AGHRT 213. (SCC)

AGHRT 241 - Practicum - Floral Design Projects 2 (3 cr)

This course provides practical lab experience involving advanced floral design techniques and floral shop management. Prerequisite: AGHRT 213. (SCC)

AGHRT 266 - Cooperative Education Seminar (1-2 cr)

For course description, see Cooperative Education. (SCC)

AGHRT 267 - Cooperative Education Work Experience (1-18 cr)

For course description, see Cooperative Education. (SCC)

AGHRT 296 - Special Problems (1-3 cr)

This course is designed to meet specific skill levels for individual students. Course content varies depending on areas of special interest and the number of credits chosen. Established guidelines allow students to research special areas of interest. Prerequisite: Permission of instructor. (SCC)

AGHRT 297 - Special Problems (1-3 cr)

This course is designed to meet specific skill levels for individual students. Course content varies depending on areas of special interest and the number of credits chosen. Established guidelines allow students to research special areas of interest. Prerequisite: Permission of instructor. (SCC)

HEATING, VENTILATION, AIR CONDITIONING AND REFRIGERATION

AIRC 103 - Fundamentals of Electricity in HVAC/R (4 cr)

Students explore the fundamental concepts of electricity and magnetism, and basic applications in the HVAC/R trade. Theory includes voltage, direct and alternating current, resistance, series and parallel circuits, electrical symbols and schematic diagrams, electrical safety, and basic electrical components. Emphasis will be placed on the skills to interpret basic schematics for gas heat, electric heat, and air conditioning systems. (SCC)

AIRC 106 - HVAC/R Electrical Applications (6 cr)

Students further explore electrical applications in the HVAC/R field. Topics include motors, line voltage and low voltage controls, relays, transformers, and thermostats. Special emphasis is placed on the development and use of schematic and wiring diagrams for troubleshooting gas and electric furnaces. (SCC)

AIRC 107 - HVAC/R Electrical Applications Lab (8 cr)

Topics will include wiring, testing, and troubleshooting of series and parallel circuits, low voltage and line voltage controls, interpretation of schematic diagrams, and electrical safety. Emphasis will be placed on wiring, testing, and troubleshooting an electric and gas furnace. (SCC)

AIRC 108 - Fundamentals of Heating Systems (6 cr)

This course introduces the fundamentals of heating with forced air fuel gas burning appliances and electric heating appliances. Students will explore gas codes, venting, gas piping, the combustion process, and components of residential and light commercial heating systems. Emphasis will be placed on sequence of operation, troubleshooting, and the relationship of the electrical and mechanical functions as a complete system. (SCC)

AIRC 109 - Fundamentals of Refrigeration (5 cr)

Students will explore the physics and theory governing the vapor-compression refrigeration cycle, human comfort and psychometrics, and practical applications of refrigeration systems. (SCC)

AIRC 110 - Fundamentals of Refrigeration Lab (10 cr)

Students will focus on the proper use of refrigeration tools, evaluating refrigeration system performance, analyzing ladder diagrams, and troubleshooting electrical components. (SCC)

AIRC 117 - Theory of Heat Transfer (4 cr)

Students explore basic concepts and applications of force, energy, fluids and heat as applied to refrigeration and air conditioning. Topics include energy, heating and air conditioning equipment, thermal heat properties, basic refrigeration cycles, test equipment, and tools of the trade. (SCC)

AIRC 125 - Sheet Metal Layout and Fabrication (1 cr)

This course introduces the theory and practical application of sheet metal practices in duct fabrication. Topics include sheet metal tools, layout, duct fabrication, and duct installation procedures. (SCC)

AIRC 126 - Sheet Metal Layout and Fabrication Lab (3 cr)

Lab component to accompany AIRC 144 Sheet Metal Layout and Fabrication. Students will use sheet metal tools, equipment, and layout procedures to fabricate and install a duct system. (SCC)

AIRC 136 - HVAC/R Safety (1 cr)

This course will introduce students to the safety requirements mandated by the Washington Department of Labor and Industries and OSHA. Topics include safety standards, fall protection, electrical safety, struck-by, caught-in or between, PPE, HAZMAT, and health hazards in construction. (SCC)

AIRC 137 - Fundamentals of Heating Systems Lab (8 cr)

Students will wire, troubleshoot, and repair residential and light commercial heating systems. Emphasis will be placed on developing skills to identify system problems, troubleshooting strategies, and repair procedures. (SCC)

AIRC 203 - Fundamentals of Air Conditioning (7 cr)

This course continues refrigeration instruction to also include comfort cooling and air conditioning. Students will explore techniques for proper refrigerant handling, recovery, recycling, reclaim, and evacuation, in preparation for the EPA 608 Refrigerant Handling License. Electrical skills will be further developed, exploring the use of electric motors, capacitors, motor protective devices, additional controls, and code compliance. (SCC)

AIRC 204 - Fundamentals of Air Conditioning Lab (7 cr)

Students will focus on the proper use of refrigeration tools, evaluating refrigeration and air conditioning system performance, analyzing ladder diagrams, troubleshooting electrical components, recovery and evacuation procedures, and brazing techniques. (SCC)

AIRC 205 - System Performance Testing (5 cr)

This course will introduce students to the idea of considering the individual components as part of a complete system when evaluating performance. Topics include the measurement of system performance through airflow, critical charge, charging tables for air conditioning systems, combustion analysis for combustion appliances, economizers, fan laws, fan and blower performance, air distribution systems, and hydronics. Heat transfer in buildings and calculation of heat load will also be covered, focusing on the building as a system. (SCC)

AIRC 206 - System Performance Testing Lab (10 cr)

Students will measure airflow and analyze results, evaluate system performance, and practice advanced troubleshooting procedures. Troubleshooting will include refrigeration problems, compressor replacements, electrical problems including compressors, motors, and controls, combustion problems, and airside problems. (SCC)

AIRC 207 - System Servicing and Troubleshooting of Heat Pumps (5 cr)

Students will explore heat pump fundamentals, types of heat pump systems, system accessories, troubleshooting, and diagnostics. Topics include heat pump compressors, flow control, thermostats, controls, control strategies, piping, electrical and mechanical troubleshooting, and airflow. Electrical skills will be further developed, exploring the use of electric motors in heat pump systems, capacitors, motor protection devices, controls, and code compliance. (SCC)

AIRC 208 - System Servicing and Troubleshooting of Heat Pumps Lab (10 cr)

Lab exercises will focus on understanding and troubleshooting the refrigeration cycle, electrical components, evaluation looking at the system as a whole, and strengthening technician skills through the use of schematic reading, troubleshooting procedures, and customer service techniques. (SCC)

AIRC 262 - Fundamentals of Direct Digital Control (5 cr)

This course introduces the fundamentals of control theory and applications for direct digital control in commercial HVAC/R systems. Topics include unique characteristics of commercial buildings, commercial and mechanical systems, control theory, sensors, control strategies, control devices, basic electronics, and basic networked communication systems. (SCC)

AIRC 265 - Fundamentals of Direct Digital Control Lab (10 cr)

Students will select, install, and commission a direct digital control system for a specific commercial application. Applications include a rooftop unit with economizer, geothermal heat pump, and commercial low temp refrigeration system. (SCC)

AIRC 266 - Cooperative Education Seminar (1-2 cr)

For course description, see Cooperative Education. (SCC)

AIRC 267 - Cooperative Education Work Experience (1-18 cr)

For course description, see Cooperative Education. (SCC)

ANTHROPOLOGY

ANTH& 100 - Survey of Anthropology (5 cr)

An introductory survey course of anthropology that examines the biology and cultures of humans through scientific and humanistic perspectives. This course explores anthropology as a four-field discipline, encompassing biological anthropology (primates, human biological diversity, paleoanthropology), archaeology (ancient cultures), cultural anthropology (contemporary cultures and cultural diversity), and linguistic anthropology (language and communication). (SCC, SFCC)

ANTH& 206 - Cultural Anthropology (5 cr)

Introduces the student to the concept of culture and the studies of people of the world. This is an introduction to the theories that these studies are based upon and the development of an anthropological perspective of the world and its peoples. (SCC, SFCC)

ANTH& 210 - Indians of North America (5 cr)

A descriptive account of the American Indians, confined to the Indians north of Mexico from prehistoric to the reservation period. There is a concentration on the Indians of the Northwest and the Plains Indians, with an emphasis on their social, political and material culture. (SFCC, SCC)

ANTH 221 - Stone Age Survival (5 cr)

A general introduction to primitive technology. The student is given a chance to replicate tools. Explores kinship, ethnobotany and metaphysical positions that were held by prehistoric folks. (SFCC)

APPLIED EDUCATION

APLED 110 - Applied Comprehensive Communication (5 cr) This course is an introduction to comprehensive communication skills and their application to vocational and academic studies. (SCC)

APLED 112 - Applied Mathematics (2-5 cr)

This course is an introduction to mathematical theory and its application to the professional/technical fields. Topics include an overview of general mathematical concepts, geometry, trigonometry and algebra, and how they are successfully utilized in practical situations. Prerequisite: Appropriate placement scores or permission of instructor. (SCC)

APLED 113 - Introduction to Computers for Technology (2-5 cr)

Students will learn industry specific micro computer concepts and applications for their unique program of study. This course of study will include general technology as well however the majority of the course is focused on the actual industry typical use and need. (SCC)

APLED 121 - Applied Written Communication (4 cr)

This course is an introduction to written communication skills and their application to vocational and academic studies. Development of writing skills necessary to plan and write technically formatted documents is emphasized. Prerequisite: Appropriate placement scores or permission of instructor. (SCC)

APLED 123 - Leadership Skills for Business and Industry (3-4 cr)

This course is an introduction to verbal communication and team-building skills necessary for success in business and industry. Methods of improving communication including nonverbal communication and conflict management are emphasized. Verbal presentation strategies are presented. Prerequisite: Appropriate placement scores or permission of instructor. (SCC)

APLED 125 - Employment Preparation (3 cr)

This course provides advanced communication concepts that focus on resume writing, job interviewing, team building, problem solving and presentational skills. Course content varies depending upon the needs of individual departments. Prerequisite: APLED 121 or ENGL& 101 and fifth or sixth quarter standing. Appropriate placement scores or permission of instructor. (SCC)

AQUATICS

AQUAT 101 - Beginning Swimming (1 cr)

This course introduces water safety techniques, development of confidence, floating and elementary strokes with special attention to form. Upon passage of skill levels, students are issued the appropriate Red Cross cards. (SCC)

AQUAT 110 - Intermediate Swimming (1 cr)

Students learn and perfect five basic strokes. Five advanced strokes are introduced, and basic rescue and water safety are emphasized. American Red Cross cards are awarded to those who successfully complete the course. Prerequisite: American Red Cross beginner's skills or permission of instructor. (SCC)

AQUAT 115 - Swimming (1 cr)

Students learn to improve skills at their own rate. Muscular and cardiorespiratory function through stroke development and general swimming activity are emphasized. (SCC)

AQUAT 132 - Springboard Diving - Beginning (1 cr)

This course introduces the skills and techniques of springboard diving. Approaches, take offs and entries for five basic dives are emphasized. (SCC)

AQUAT 136 - Aquatic Fitness (1 cr)

This progressive program of simple exercises in and out of the water develops general body conditioning and improves efficiency of the heart, lungs and circulation. Nonswimmers, as well as swimmers, benefit from this course. (SCC)

AQUAT 224 - Water Safety Instructor (2 cr)

This course covers swimming, life-saving skills and fundamentals necessary to achieve W.S.I. certification. Students prepare for employment as teachers or administrators of aquatic programs. Prerequisite: Current lifeguard training certification; 17 years of age. (SCC)

AQUAT 230 - Lifeguard Training (2 cr)

Proper guidelines for lifeguarding in pools are covered in this course. Standard first aid and CPR for the professional rescuer are included, as is American Red Cross certification. Prerequisite: Intermediate swimming level; 15 years of age. (SCC)

AQUAT 232 - Springboard Diving - Advanced (1 cr)

This course introduces the skills and techniques of springboard diving. Approaches, take offs and entries for five basic dives are emphasized. (SCC)

AVIATION MAINTENANCE TECHNOLOGY

ARCFT 115 - Introduction to General Aircraft Maintenance (1-5 cr)

This course introduces students to the basic concepts of airframe and powerplant mechanics including the use of tools and equipment, basic mechanics techniques, materials, and processes. FAA regulations, weight and balance control, basic electrical systems and instrumentation are emphasized. Prerequisite: Concurrent enrollment in ARCFT 116. (SCC)

ARCFT 116 - Introduction to General Aircraft Maintenance Shop (1-4 cr)

Students learn practical applications to basic aerodynamics and the use of tools and equipment. Basic mechanics techniques, materials and processes are emphasized. FAA regulations, weight and balance control, basic electrical systems, and instrumentation are covered. Prerequisite: Concurrent enrollment in ARCFT 115. (SCC)

ARCFT 117 - General Aircraft Maintenance (1-5 cr)

Students learn advanced concepts of ARCFT 115 including the use of tools and equipment, basic mechanics techniques, materials and processes. FAA regulations, weight and balance control, basic electrical systems, and instrumentation are emphasized. Prerequisite: ARCFT 115. (SCC)

ARCFT 118 - General Aircraft Maintenance Shop (1-4 cr)

Students learn advanced applications to aerodynamics and the use of tools and equipment. Advanced mechanics techniques, materials and processes are emphasized. FAA regulations, weight and balance control, electrical systems, and instrumentation applications are offered. Prerequisite: ARCFT 116 and concurrent enrollment in ARCFT 117. (SCC)

ARCFT 119 - Advanced General Aircraft Maintenance (1-5 cr)

Students are introduced to advanced concepts offered in ARCFT 117. The use of tools and equipment, basic mechanics techniques, materials, and processes are emphasized. A review of FAA regulations, weight and balance control, advanced electrical systems, and instrumentation concepts are presented. Prerequisite: ARCFT 117 and concurrent enrollment in ARCFT 120. (SCC)

ARCFT 120 - Advanced General Aircraft Maintenance Shop (1-4 cr)

Students apply advanced knowledge of aerodynamics and use of tools and equipment. Advanced mechanics techniques, materials and processes are emphasized. A review of FAA regulations, weight and balance control, electrical systems, and instrumentation applications are offered. Prerequisite: ARCFT 118 and concurrent enrollment in ARCFT 119. (SCC)

ARCFT 123 - Composite Technology (5 cr)

Develops a knowledge of: History of composites, composite fabrication, inspection and repair of composites. Methods covered include preimpregnated, wet lay up, vacuum infusion process, and Resin Transfer Molding. Emphasis is placed on health and safety. (SCC)

ARCFT 131 - Composite Structure Assembly (5 cr)

Learners will utilize appropriate materials and processes to assemble structures made of composite materials. Lab experience will also cover mold making and safety in handling resins, reinforcements, and related materials. Prerequisite: ARCFT 123. (SCC)

ARCFT 132 - Applied Manufacturing Project (2 cr)

Students practice applied projects related to fabrication techniques that may include interdepartmental projects, CAD design, shop skills, measuring, fabrication, machining, composites, and quality control. (SCC)

ARCFT 135 - Basic Airframe Maintenance (1-5 cr)

This course introduces students to basic aerodynamics, woodworking, aircraft fabric finishing, and aircraft sheet metal and welding. Prerequisite: ARCFT 119 and concurrent enrollment in ARCFT 136. (SCC)

ARCFT 136 - Basic Airframe Maintenance Shop (1-5 cr)

Students apply their skills in woodworking, aircraft fabric and finishing, and aircraft sheet metal and welding. Prerequisite: ARCFT 120 and concurrent enrollment in ARCFT 135. (SCC)

ARCFT 137 - Airframe Structures (1-5 cr)

This course presents concepts in aircraft sheet metal, aircraft assembly and disassembly, and rigging. Prerequisite: ARCFT 135 and concurrent enrollment in ARCFT 138. (SCC)

ARCFT 138 - Airframe Structures Shop (1-5 cr)

Students apply their knowledge in aircraft sheet metal, aircraft assembly and disassembly, controls and control surfaces, and rigging. Prerequisite: ARCFT 136 and concurrent enrollment in ARCFT 137. (SCC)

ARCFT 139 - Airframe Systems (1-5 cr)

Students are introduced to aircraft airframe 100-hour and annual inspections, aircraft landing gear systems, and hydraulic and pneumatic systems. Prerequisite: ARCFT 137 and concurrent enrollment in ARCFT 140. (SCC)

ARCFT 140 - Airframe Systems Shop (1-5 cr)

Students prepare for aircraft airframe 100-hour and annual inspections, aircraft landing gear systems, and hydraulic and pneumatic systems. Prerequisite: ARCFT 138 and concurrent enrollment in ARCFT 139. (SCC)

ARCFT 235 - Advanced Airframe Systems (1-5 cr)

Students learn various types of aircraft systems including instrument and electrical, navigation and communication, and position and warning classifications. Prerequisite: ARCFT 139 and concurrent enrollment in ARCFT 236. (SCC)

ARCFT 236 - Advanced Airframe Systems Shop (1-5 cr)

This course emphasizes the applications of various aircraft systems including instrument and electrical, navigation and communication, and position and warning systems. Prerequisite: ARCFT 140 and concurrent enrollment in ARCFT 235. (SCC)

ARCFT 237 - Integrated Airframe Powerplant Maintenance (1-5 cr)

This course includes theory and practice of integrated aircraft inspections, ice and rain control systems, and fire protection systems. Prerequisite: ARCFT 235 and concurrent enrollment in ARCFT 238. (SCC)

ARCFT 238 - Integrated Airframe Powerplant Maintenance Shop (1-5 cr)

Students apply their skills in the practice of integrated aircraft inspections, ice and rain control systems, and fire protection systems. Prerequisite: ARCFT 236 and concurrent enrollment in ARCFT 237. (SCC)

ARCFT 245 - Aircraft Engines I (1-5 cr)

This course addresses theoretical and practical instruction in aircraft engine theory as well as maintenance and inspection. Prerequisite: ARCFT 119 and concurrent enrollment in ARCFT 246. (SCC)

ARCFT 246 - Aircraft Engines Shop I (1-5 cr)

Students apply the theories learned in ARCFT 245 with shop practice in theoretical and practical maintenance as well as servicing and inspecting aircraft engines. Prerequisite: ARCFT 120 and concurrent enrollment in ARCFT 245. (SCC)

ARCFT 247 - Aircraft Engines II (1-5 cr)

This course addresses theoretical and practical instruction in aircraft engine overhauls, maintenance, operation and inspections. Prerequisite: ARCFT 245 and concurrent enrollment in ARCFT 248. (SCC)

ARCFT 248 - Aircraft Engines Shop II (1-5 cr)

Students apply the theories learned in ARCFT 247 with shop practice in practical maintenance as well as servicing and inspecting aircraft engine overhauls, maintenance, operation and inspections. Prerequisite: ARCFT 246 and concurrent enrollment in ARCFT 247. (SCC)

ARCFT 255 - Powerplant Systems and Components I (1-5 cr)

This course offers practical and theoretical instruction in auxiliary powerplants; unducted fans; engine fire protection systems; lubrication systems; fuel and fuel metering systems; and engine electrical, ignition and starting systems. Prerequisite: ARCFT 247 and concurrent enrollment in ARCFT 256. (SCC)

ARCFT 256 - Powerplant Systems and Components I Shop (1-5 cr)

This course offers practical shop experience in powerplant systems including auxiliary powerplants; and fire, lubrication, fuel and electrical systems. Prerequisite: ARCFT 248 and concurrent enrollment in ARCFT 255. (SCC)

ARCFT 257 - Powerplant Systems and Components II (1-5 cr)

This course offers theory on propellers as well as powerplant airflow and cooling exhaust systems. Prerequisite: ARCFT 255 and concurrent enrollment in ARCFT 258. (SCC)

ARCFT 258 - Powerplant Systems and Components II Shop (1-5 cr)

This course offers practical shop experience in propeller maintenance as well as powerplant cooling and exhaust systems. Prerequisite: ARCFT 256 and concurrent enrollment in ARCFT 257. (SCC)

ARCFT 275 - Theory and Review - Airframe or Powerplant (1-10 cr)

This class provides students with additional time to meet Federal Aviation Administration (FAA) requirements. Grade option: Pass/Fail. Prerequisite: Completion of all six quarters of ARCFT courses. (SCC)

ARCFT 276 - Airframe or Powerplant Shop (1-10 cr)

This class provides students with additional lab time to meet Federal Aviation Administration (FAA) requirements. Grading option: Pass/Fail. Prerequisite: Completion of all six quarters of ARCFT courses. (SCC)

ARCHITECTURAL TECHNOLOGY

ARCHT 112 - Introduction to Architectural Drafting (5 cr)

Two-and three-dimensional design and spatial studies; abstract studies in form, color and texture; introduction to architectural design processes; isometric and orthographic drawing; perspective, shade and shadow, lettering, and drafting techniques. (SCC)

ARCHT 114 - Architectural Math (3 cr)

This course offers a review of basic math related to architectural drafting and math skills required for the construction industry. (SCC)

ARCHT 120 - Residential Architecture Theory (5 cr)

Exploration of architecture, interior design, landscape architecture, engineering consulting and construction management through equity, environment, and economy; careers in the building design industry are considered. This course includes research methods, an overview of architectural history, and the development of written communication skills necessary in the professional office environment and academic arena. (SCC)

ARCHT 122 - Architectural Design 1 (5-7 cr)

Introduction to architectural design focusing on composition, conceptual design and principles of organization, scale, proportion, rhythm and 3-D development. Students develop the team-building skills as well as the graphic and verbal communication abilities necessary for success in the building design industry. Prerequisite: ARCHT 112 or permission of instructor. (SCC)

ARCHT 124 - Advanced Architectural Math (1-2 cr)

This course applies the mathematical concepts and principles introduced in ARCHT 114. The use of computers in numerical computation is emphasized. Construction cost estimating methods are examined. Prerequisite: ARCHT 114 or permission of instructor. (SCC)

ARCHT 125 - Residential Building Codes (2 cr)

Emphasis on basic graphic skills, design principles and design concepts for built environment design. Advanced exploration and communication of theories and concepts related to basic 2-dimensional and 3-dimensional principles of built space. (SCC)

ARCHT 126 - Introduction to Computer Aided Drafting (3-5 cr)

Students are introduced to the basic principles of CAD commands. Practical applications of a drawing software package and the creation of basic working drawings are emphasized. (SCC)

ARCHT 130 - Residential Building Materials (4 cr)

This is an introductory course to the materials commonly used in residential construction. A variety of building components, their applications and limitations, and basic construction methods will be emphasized. (SCC)

ARCHT 132 - Introduction to Construction Documents/CAD (8 cr)

Introduction to construction documents using CAD. Students will develop working drawings common in a set of residential construction documents. Students will learn common practices for CAD usage within a professional building design office to equip them for effective collaborative work. Prerequisite: ARCHT 122 or permission of instructor. (SCC)

ARCHT 134 - Electrical and Mechanical Systems (4 cr)

Introduction to Electrical and Mechanical Systems for Buildings: building heating, ventilating, and air conditioning systems, heat transfer concepts, water supply, drainage, electrical and lighting systems for buildings. Prerequisite: ARCHT 120 or permission of instructor. (SCC)

ARCHT 139 - Delineation (5 cr)

Development of skills relating to drawing 2D and 3D objects, one and two point perspective as well as orthographic projection. Exploration of manual sketching techniques in combination with digital presentation methods. (SCC)

ARCHT 215 - Issues in Sustainable Architecture (5 cr)

The course will introduce students to the challenges of sustainable design and will focus on solutions. Students will utilize digital tools and technology with select design projects which will become the vehicle to analyze, evaluate and articulate new ideas for a more sustainable architectural design. (SCC)

ARCHT 225 - Portfolio (1 cr)

The course will guide students in a reflection and compilation of the cumulative documentation developed during the current and previous four quarters of the CAD/Building Design AAS and Architecture AAS-T degree programs. (SCC)

ARCHT 238 - Introduction to Commercial Drafting/Design (6 cr)

Students are introduced to commercial architectural drafting and design implemented as a programmatic, sequential process. Concepts of commercial design are integrated with the development of basic commercial drafting concepts and procedures. Prerequisite: ARCHT 132 or permission of instructor. (SCC)

ARCHT 240 - Commercial Building Codes (3 cr)

This course introduces code analysis and code conformance for nonresidential projects. Prerequisite: ARCHT 125 or permission of instructor. (SCC)

ARCHT 242 - Commercial Construction Documents/CAD (4-8 cr)

Students receive practical lab experience in the development of architectural working drawings from a preliminary commercial building design. Structural framing systems are emphasized. Construction documents will be produced using Autodesk CAD/BIM software. Prerequisite: ARCHT 238 or permission of instructor. (SCC)

ARCHT 246 - Commercial Architecture Theory (3-5 cr)

Students are introduced to the commercial architectural drafting profession, including the processes and materials used in the construction of commercial building systems. Commercial design decisions will be defined by relating building technologies, procedures, related industries and jurisdictional constraints. (SCC)

ARCHT 250 - Introduction to Commercial Building Materials (4 cr)

Students are introduced to the materials commonly used in commercial construction. A variety of building components, their applications and limitations, and basic construction methods are emphasized. Wood, masonry, steel and concrete systems are discussed in depth. (SCC)

ARCHT 251 - Advanced Commercial Building Codes (3 cr)

This course continues the concepts presented in ARCHT 240. Advanced code analysis and code conformance on commercial projects are emphasized. Prerequisite: ARCHT 240. (SCC)

ARCHT 252 - Advanced Commercial Construction Documents/CAD (8 cr)

Practical lab experience is offered in the development of commercial designs utilizing Building Information Modeling (BIM) and related technologies. Emphasis on visualization and analysis of BIM developed projects will be addressed. Prerequisite: ARCHT 242 or permission of instructor. (SCC)

ARCHT 262 - Electrical Mechanical Systems Application/CAD (6-10 cr)

Practical lab experience is utilized in the development of commercial construction documents/designs integrating mechanical, electrical, lighting and plumbing systems for buildings. Hands-on application will be via continued development of Building Information Modeling (BIM). Prerequisite: ARCHT 252 or permission of instructor. (SCC)

ARCHT 263 - Advanced Commercial Building Materials (4 cr)

The course continues the concepts presented in ARCHT 250. A variety of building components, their applications and limitations, and basic construction methods are emphasized. Wood, masonry, steel and concrete systems as well as building envelope materials are discussed in depth. Prerequisite: ARCHT 250. (SCC)

ARCHT 266 - Cooperative Education Seminar (1-2 cr)

For course description, see Cooperative Education. (SCC)

ARCHT 267 - Cooperative Education Work Experience (1-18 cr)

For course description, see Cooperative Education. (SCC)

ARCHT 288 - Cooperative Education Work Experience (No Seminar) (1-18 cr)

For course description, see Cooperative Education. (SCC)

ART

ART& 100 - Art Appreciation (5 cr)

A course to develop an appreciation and awareness of art, and to make art effective in daily living. (SCC, SFCC)

ART 101 - Fundamentals of Drawing (4 cr)

Freehand drawing from observation is taught. Studies of form, texture, line, mass, shape and perspective applied to expressive drawing for the beginning student. (SFCC)

ART 102 - Drawing Composition (4 cr)

Includes studies of form, texture, line, mass and shape applied to expressive drawing with emphasis on good composition. (SFCC)

ART 103 - Drawing Techniques (4 cr)

Studies of form, texture, line, mass and shape are applied to expressive drawing with emphasis on a variety of drawing techniques. (SFCC)

ART 105 - Color and Design (5 cr)

A first-quarter studio class introducing the elements and principles of two-dimensional design. This course emphasizes the structures and theories of color as it is perceived via pigment and light. Through individual projects, exercises and discussion, the student learns basic art vocabulary, compositional structure, analytical skills and professional craftsmanship. (SFCC)

ART 106 - 3-D Design (4 cr)

A second-quarter design class continuing the development and exploration of the elements and principles of design with the emphasis on form and space. A variety of processes including modeling, carving, casting and fabrication are introduced through a series of exercises. Materials may include paper, wood, found objects, metals, clay, plaster and latex. Students learn safety procedures and the proper use of hand and power tools. Prerequisite: ART 105 or permission of instructor. (SFCC)

ART 108 - Ancient/Medieval Art (5 cr)

History of the development of major and minor arts from prehistoric times through the Middle Ages. The civilizations of the Near East, Egypt and the classical world are introduced through illustrated lecture and individual research. The developing art of Western Europe during the Middle Ages is seen in the context of its political, social, economic and religious environment. (SCC, SFCC)

ART 109 - Renaissance/Baroque Art (5 cr)

History of the development of major and minor arts from the Early Renaissance through the 18th century. Through illustrated lectures and individual research, the student will explore the work of individual artists, observe the changing role of the artist in his/her society, note the support systems of art patronage, and attempt to assess the aesthetics of the given period or style. (SCC, SFCC)

ART 110 - Modern Art (5 cr)

History of the development of modern art beginning with the 19th century and concluding with an emphasis on contemporary art and architecture. The course attempts to critically assess the aesthetics of art styles and ideologies. Through illustrated lectures and individual research the student are exposed to a variety of contemporary approaches and media in the visual arts. (SCC, SFCC)

ART 112 - Non-Western Art (5 cr)

This course is designed to explore the art from cultures outside the European tradition such as Asian, African, Meso American and groups from the North American continent. In addition to the basic slide/lecture format, there are guest speakers, films and videos, and one or two short art experiences. (SCC, SFCC)

ART 122 - Health and Safety in Art (1 cr)

Designed to develop awareness of health, safety and toxicology concerns as they pertain to processes and materials used in the visual arts. Information on hazards and the necessary precautions for individual media, ventilation, substitutes for hazardous materials and safety in the studio is included. A recommended course for all art students. (SFCC)

ART 127 - Visual Arts Special Workshops (1-15 cr)

This course provides intensive studio experiences in specialized areas of visual arts including techniques or concepts not already covered by existing classes. May be repeated for a maximum of 15 credits. (SFCC)

ART 130 - Sculpture (4 cr)

Studio investigation of various sculptural concepts, materials and processes. Students work with equipment and tools and are given specific problems dealing with a variety of materials. Advanced students work closely and contractually with the instructor. Independent research and exploration is encouraged at beginning and advanced levels. May be repeated for a total of 16 credits. Prerequisite: ART 106 or 205 or an academic art course or permission of instructor. (SFCC)

ART 147 - Advanced Design (3 cr)

Advanced problems in aesthetic and symbolic considerations of 2-D and 3-D design. May be repeated for a total of 6 credits. Prerequisite: ART 105. (SFCC)

ART 161 - Portfolio I (1 cr)

A studio seminar to be taken at the end of the first year. An introduction to professional practices including preparation of a portfolio of original work, documentation of work using a copy stand and camera, and writing an artist's statement. Independent research, seminar discussions, guest artists, and viewing exhibitions and performances. Required for C.F.A. and A.F.A. candidates. To be taken spring quarter in the first year. Prerequisite: ART 106, 110 and 202, plus 10 additional Art credits at SFCC or permission of instructor. The above can be taken concurrently with ART 161. (SFCC)

ART 180 - Watercolor (4 cr)

Transparent and opaque watercolor, as well as other water mediums. Students learn to stretch paper and to handle the traditional tools and papers of this medium. Individual projects designed to encourage exploration and personal expression. May be repeated for a total of 16 credits. (SFCC)

ART 186 - Oil Painting (4 cr)

Working with oil medium on canvas, board or paper. Practice in stretching canvas, preparing the ground and mixing paint. Course emphasizes the formal aspects of composition and the development of an expressive approach to subjects and themes. May be repeated for a total of 16 credits. (SFCC)

ART 188 - Acrylic Painting (4 cr)

Working with acrylic and other compatible mediums on surfaces such as canvas, board or paper. Practice in stretching canvas, preparing the ground and mixing paint. Course emphasizes the formal aspects of composition and the development of an expressive approach to subjects and themes. On occasion, this course may be offered specifically to teach mural painting. May be repeated for a total of 16 credits. (SFCC)

ART 189 - Printmaking (4 cr)

A survey of the various printing processes, and an exploration into these to encourage the student to experiment and make comparisons as to the various qualities of each medium. Instructor may select from metal, stone, wood and linoleum, incorporating monotype, stenciling and stamping approaches in order to help students develop the knowledge of tools, materials and techniques. May be repeated for a total of 16 credits. (SFCC)

ART 190 - Printmaking Relief (4 cr)

Using surfaces such as wood and linoleum, the student explores direct and indirect methods of image formation. Stamping, frottage, embossing and traditional relief methods will be explored, as well as use of color on single and multiple plates. May be repeated for a total of 12 credits. (SFCC)

ART 191 - Screen Printing (4 cr)

Individual exploration of screen printing may include the photo process, tusche and glue, and cut stencil. The instructor considers both technical and aesthetic concerns. May be repeated for a total of 12 credits. (SFCC)

ART 192 - Printmaking, Intaglio (4 cr)

Dry point, engraving, etching, embossing and calligraphy will be explored on surfaces such as zinc, copper, masonite and cardboard. Students may apply techniques such as soft ground, sugar lift, aquatint and color printing in conjunction with design concepts. May be repeated for a total of 12 credits. (SFCC)

ART 194 - Jewelry (3 cr)

Design and construction of jewelry in various materials including contemporary materials with emphasis on design and craftsmanship. Course applies to the artist as a craftsperson in the professional field. May be repeated for a total of 9 credits. (SFCC)

ART 197 - Art Mediums and Techniques (3 cr)

Introduction to various craft techniques. May include papermaking, mixed media, simple book designing, weaving, ceramic arts, enameling and printing techniques. Application of the elements and principles of design. Good craftsmanship is stressed. May be repeated for a total of 9 credits. (SFCC)

ART 201 - Experimental Drawing (3 cr)

Studio and outside assignments are designed to expand the student's understanding of drawing concepts. Student is expected to participate in individual and group assignments that challenge the traditional definitions of drawing. Emphasis is on a creative approach to traditional and unconventional materials. Prerequisite: ART 101 or 102 or 103 or 202 or permission of instructor. (SFCC)

ART 202 - Figure Drawing (3 cr)

Working from a live model, the student explores a range of drawing approaches including gestural drawings, sustained renderings, structural drawings and expressive treatment of the figure. Exercises are performed which emphasize anatomical structure and focus on fragments, such as hand studies and portraiture. The development of a personal approach to drawing the figure and an examination of how the figure can be handled in art is explored through such means as critiques, slide presentations and demonstrations. May be repeated for a total of 18 credits. (SFCC)

ART 205 - Ceramics (4 cr)

Clay forming processes, hand-building, potter's wheel and principles of glazing and firing. May be repeated for a total of 12 credits. (SFCC)

ART 206 - Advanced Ceramics (4 cr)

This course involves advanced work in ceramics including specialized glaze and firing techniques, sculpture and functional form, student-based research project, and development of individual artistic concepts in clay. May be repeated for a total of 12 credits. Prerequisite: Three quarters of ART 205 or permission of instructor. (SFCC)

ART 261 - Exhibit (1 cr)

Planning and installation of a culminating exhibition. Seminar dealing with professional practices: slide documentation, presentation and exhibitions, resumes and statements, and public relations. Critiques and articulation of personal work. Independent research, seminar discussions, gallery visits and guest artists. Required for all C.F.A. and A.F.A. candidates for graduation. To be taken spring quarter in the second year. Prerequisite: ART 161 plus 25 credits in art at SFCC or permission of instructor. (SFCC)

ADDICTION STUDIES

AS 131 - Survey of Addictions (5 cr)

This introductory course explores the nature and scope of alcohol/drug use, abuse, and addiction as well as problems with compulsive behaviors. Basic drug categories and effects are studied. The evolution of social policy, culture, and impacts upon vulnerable populations and the prevention, intervention and treatment are discussed. The basic steps necessary to become a Chemical Dependency Professional in the state of Washington are described. (SFCC)

AS 141 - Law, Ethics, and Professional Development for Addiction Counseling (5 cr)

This course is designed to meet the Chemical Dependency Professional educational requirements regarding legal, ethical, and professional development outlined in WAC 246-811-030 (2) (s) through (w). The framework for this course will examine federal and State of Washington rules and regulations. Professional organizations licensing/certification and agency policy and procedures will be explored to demonstrate the laws, ethics, and professional practice within the addictions profession. (SFCC)

AS 172 - Family Systems and Adolescent Treatment in Addictions (5 cr)

This course will examine competencies outlined by the Substance Abuse and Mental Health Services Administration (SAMHSA), which specifically involve the family and other systems in the addiction treatment process. This course will also examine adolescent treatment issues in the context of family systems and the dynamics of addiction. An overview of Structural, Functional, and System approaches will be explored, including family roles and the interrelationship between family dynamics, multi-generational transmission, and developmental information will be applied to the treatment of addictions. Evidence based treatment models for families and adolescents will be emphasized. (SFCC)

AS 176 - Addiction Counseling Techniques (5 cr)

This is an experiential course on techniques used in counseling. The student is exposed to basic counseling skills, strategies employed in chemical dependency treatment, counseling techniques used in addressing treatment needs and techniques used for removing blocks to recovery. Specific techniques are demonstrated and practiced that are appropriate for a variety of populations. (SFCC)

AS 182 - Cultural Diversity; Risk Intervention for Health/HIV (5 cr)

This course provides foundational information about multicultural perspectives as well as culturally sensitive counseling dynamics. The emphasis will be on the development of knowledge and skills regarding addiction and health concerns, appropriate intervention and treatment methodologies for working in a diverse society. This course will also focus on preventing infectious diseases and how to address and support individuals with infectious diseases, particularly HIV. A primary critical task is the examination of one's own attitudes and values. (SFCC)

AS 221 - Treatment Theories for Addictions (5 cr)

This course addresses the constructs, underlying principles, theories, practices and desired outcomes of the most generally accepted and scientifically supported models of treatment for addiction and other substance related problems. (SFCC)

AS 275 - Physiological Actions of Alcohol and Drugs (5 cr)

This is a review of the pharmacology of psychoactive drugs. It is a research-based study of all categories of mind-altering substances. (SFCC)

AS 277 - Group Facilitation for Addiction Treatment (5 cr) This course is designed to offer students the basic knowledge and practice to facilitate group counseling within the addiction treatment population. A variety of group methods and research will be explored with an emphasis on evidenced based practices. (SFCC)

AS 279 - Case Management I: Screening, Diagnosis, Assessment, and ASAM (5 cr)

The course introduces records management paperwork and application of confidentiality laws, such as CFR 42, and HIPAA laws, which is essential for beginning case managers when entering into the field of addictions. Students will practice diagnosis, placement, and referral of patients through the applications of case studies. This beginning course will prepare the students as they move into Case Management 2. (SFCC)

AS 280 - Case Management 2: Treatment Planning and Continuing Care (5 cr)

Students will utilize the patient information for the case studies they developed in Case Management I to gain knowledge of the process of clinical admittance of patients, the principles of working with Community partners for continuation of care, and the development of patient-centered treatment and continuing care plans. (SFCC)

AS 281 - Practicum I (5 cr)

The practicum provides appropriate counselor trainee experiences that complement classroom learning and help prepare the students for employment. Students will explore state-approved community treatment agencies and apply for placement with them by developing a resume and cover letter, and interviewing with sites open to student placement. Students will observe and participate in treatment programs, while practicing professional behavior and learning about the organizational dynamics of treatment and community agencies. (SFCC)

AS 282 - Practicum II (5 cr)

This Practicum builds on clinical skills and knowledge begun in Practicum I. The student strengthens his/her capacity to function as a professional by demonstrating consistency in meeting professional competencies. Specific proficiencies, skills, levels of involvement with clients or patients, and scope of practice will vary dependent on the community treatment agency and background of the student. (SFCC)

AS 287 - Survey of Addiction Alternative Training (3 cr)

This introductory course explores the nature and scope of alcohol/drug use, abuse, and addiction as well as problems with compulsive behaviors. Basic drug categories and effects are studied. Prerequisite: Instructor permission required to enroll in course. Students will be required to have a grade of 2.0 or better in each course to graduate from the program. (SFCC)

AS 288 - Law and Ethics for Addiction Alternative Training (2 cr)

This course is designed to meet the Chemical Dependency Professional educational requirements regarding Washington State and Federal legal and ethical requirements outlined in WAC 246-811-030 (2) (s) through (w). Prerequisite: Instructor permission required to enroll in course. Students will be required to have a grade of 2.0 or better in each course to graduate from the program. (SFCC)

AS 289 - Pharmacological and Physiological Actions of Alcohol and Other Drugs Alternative Training (3 cr)

This course presents the pharmacology and physiology of psychoactive drugs. It is a research-based study of mind-altering substances. Prerequisite: Instructor permission required to enroll in course. Students will be required to have a grade of 2.0 or better in each course to graduate from the program. (SFCC)

AS 290 - Co-Occurring Behavioral Health Disorders (5 cr)

The Co-Occurring Behavioral Health Disorders class will focus on clients who have one or more disorders relating to the use of drugs or destructive compulsive behaviors as well as one or more mental health disorders. This class will provide an overview of diagnostic criteria, assessment, medication, specific mental disorders, and the need for linkage between the mental health services system and substance abuse treatment with the goal of dual recovery. (SFCC)

AS 294 - Family and Adolescent Treatment of Addictions Alternative Training (2 cr)

This course presents an overview of Structural, Functional, and System approaches to counseling families with addictions. The treatment of Adolescents with addictions is also studied with emphasis on evidenced based treatment models. Prerequisite: Instructor permission required to enroll in course. Students will be required to have a grade of 2.0 or better in each course to graduate from the program. (SFCC)

AS 295 - American Society of Addiction Medicine Alternative Training (3 cr)

This course examines The American Society of Addiction Medicine (ASAM) criteria, the most widely used guidelines for assessment, service planning, placement, continued stay and discharge of patients with addictive disorders. Prerequisite: Instructor permission required to enroll in course. Students will be required to have a grade of 2.0 or better in each course to graduate from the program. (SFCC)

AS 296 - Treatment of Addictions Individual and Group (2 cr)

This course will examine Treatment of Addictions including individual and group approaches. The evidenced based treatment methods will be focused upon with special emphasis on competencies outlined by the Substance Abuse and Mental Health Services Administration (SAMHSA). This course meets the requirements for Alternative Training WAC 246-811, areas Treatment of Addiction: Individual and group treatment for addiction counseling. Prerequisite: Instructor permission required to enroll in course. Students will be required to have a grade of 2.0 or better in each course to graduate from the program. (SFCC)

AS 297 - BRI for HIV and Addictions (1 cr)

The State of Washington's Educational Requirements for Chemical Dependency Professionals are outlined in WAC 246-811-030. This course meets the requirement for: (g) HIV/AIDS brief risk intervention for the chemically dependent. Prerequisite: Instructor permission required to enroll in course. Students will be required to have a grade of 2.0 or better in each course to graduate from the program. (SFCC)

AS 298 - Cult Div for Addictions 1 (1 cr)

The State of Washington's Educational Requirements for Chemical Dependency Professionals are outlined in WAC 246-811-030: This course meets the requirement for: (e) Cultural diversity including people with disabilities and its implication for addiction treatment. Prerequisite: Instructor permission required to enroll in course. Students will be required to have a grade of 2.0 or better in each course to graduate from the program. (SFCC)

AMERICAN SIGN LANGUAGE

ASL& 121 - Am Sign Language I (5 cr)

First course in a series of three American Sign Language (ASL) courses that are prerequisites for the interpreter training program or can be taken for modern language credit. ASL I introduces at least 360 vocabulary words, receptive and expressive skills, deaf culture, and grammatical structure of ASL. (SCC, SFCC)

ASL& 122 - Am Sign Language II (5 cr)

Second course in a three-course series of American Sign Language (ASL). All are prerequisites to enter the interpreter training program or can be taken for modern language credit. This course I adds vocabulary development of at least 450 signs and their respective glosses, receptive and expressive skills, and enhance use and understanding of grammatical structure of ASL. Various aspects of deaf culture is discussed. Prerequisite: ASL& 121. (SCC, SFCC)

ASL& 123 - Am Sign Language III (5 cr)

This is the third course in a three- course series of American Sign Language (ASL). All are prerequisites to enter the interpreter training program or can be taken for modern language credit. This course increases vocabulary by introducing at least 350 new vocabulary words, advances receptive and expressive skills, enhances use of appropriate grammatical features of ASL and relate cultural aspects of the deaf community. Prerequisite: ASL& 121, 122. (SCC, SFCC)

ASL& 221 - American Sign Language IV (5 cr)

This is the fourth course in a series of 6 American Sign Language courses. This course emphasizes expressive and receptive communication skills involving elementary school coursework and accompanying vocabulary of at least 350 words; demand-control schema and aspects of ASL grammatical features. Information about Roles and Responsibilities of educational interpreters will be incorporated into each task. Prerequisite: ASL& 123 and concurrent enrollment in ITP 231, 241. (SFCC)

ASL& 222 - American Sign Language V (5 cr)

This is the fifth course in a series of 6 American Sign Language courses. This course incorporates expressive and receptive communication skills involving middle school subject matter and accompanying vocabulary of at least 400 words; additional information about demand-control schema and aspects of ASL grammatical features. Information about Deaf Culture will be compared to that of the majority hearing culture. Prerequisite: ASL& 221 and concurrent enrollment in ITP 232. (SFCC)

ASL& 223 - American Sign Language VI (5 cr)

This is the sixth course in a series of 6 American Sign Language courses. This course incorporates expressive and receptive communication skills involving high school subject matter and accompanying vocabulary of at least 350 words; comparative information about demand-control schema and aspects of ASL grammatical features. Information about Deaf Culture will be compared to that of the majority hearing culture. Prerequisite: ASL& 222 and concurrent enrollment in ITP 233. (SFCC)

ASTRONOMY

ASTR& 100 - Survey of Astronomy (5 cr)

This course provides a survey of astronomy that includes its history as a science, the motions of celestial objects, the solar system, the life cycles of stars, the Milky Way and other galaxies, and cosmology. This is a non-lab physical science course, and credit will not be granted for both ASTR& 100 and ASTR& 101. (SCC, SFCC)

ASTR& 101 - Intro to Astronomy (5 cr)

This course provides an introduction to general astronomy topics such as patterns of motion in the sky, the physics of motion and light, the formation and characteristics of the solar system, stars and stellar evolution, galaxies, and cosmology. Weekly laboratory required. Credit will not be granted for both ASTR& 101 and ASTR& 100. (SCC, SFCC)

AUDIO ENGINEERING

AUDIO 101 - Audio Fundamentals for Multimedia (4 cr) This course introduces digital audio recording and editing for multimedia productions. Students will learn how to produce audio for podcasts and video productions. Course content includes: microphone technology, field recording, synchronization, sound design and editing. (SFCC)

AUDIO 113 - Live Sound and Location Recording I (3 cr) This course instructs students in the design and use of live sound reinforcement systems and principles of live concert recording. Students receive hands-on training in cabling, acoustics, equalization, critical listening, and mixing, as well as techniques for successful location recording. Prerequisite: AUDIO 117, 155 and concurrent enrollment in AUDIO 120. (SFCC)

AUDIO 116 - Music Basics for Audio Professionals (5 cr)

Students learn basic music theory, vocabulary, instrumental concepts and communication skills needed to succeed in the professional recording industry. Basic keyboard skills are developed as preparation for MIDI sequencing. Prerequisite: Concurrent enrollment in AUDIO 155. (SFCC)

AUDIO 117 - Introduction to Music Technology (4 cr)

Students learn a brief history of electronic music and the development of analog/digital synthesis and sampling technology. MIDI concepts and applications are covered. Students receive hands-on experience programming and editing sounds on virtual analog synthesizes. Basic MAC computer tutorial and music sequencing software are introduced. (SFCC)

AUDIO 120 - Digital Audio I (4 cr)

This course is an introduction to digital audio workstations, including: basic audio recording, editing and mixing functions, MIDI sequencing and arranging, digital audio theory, file management, and basic operating system skills. Prerequisite: AUDIO 116 or MUSC& 141 and AUDIO 117, 155 and concurrent enrollment in AUDIO 156. (SFCC)

AUDIO 121 - Digital Audio II (4 cr)

This course is a continuation of Digital Audio I and provides intermediate level Digital Audio Workstation instruction. Students further explore the recording, editing, and mixing capabilities of DAW software. Prerequisite: AUDIO 120, 156. (SFCC)

AUDIO 151 - Audio Project I (1 cr)

Students plan and implement complete recording studio projects including set up, recording, overdubbing, mixdown and mastering. Prerequisite: AUDIO 155 and concurrent enrollment in AUDIO 156. (SFCC)

AUDIO 155 - Introduction to Recording (5 cr)

This course is an introduction to techniques and equipment for audio recording. Students study acoustics, studio construction, microphones, signal flow, multitrack recording, signal processing and receive hands-on recording experience. Prerequisite: Concurrent enrollment in AUDIO 117. (SFCC)

AUDIO 156 - Audio Engineering I (4 cr)

Students study multitrack recording and mixdown techniques including signal flow, microphone techniques, reverb, delay, effects, signal processing and basic mastering. Critical listening and aural skills are developed and applied in mixdowns and Audio Project classes. Prerequisite: AUDIO 155 and concurrent enrollment in AUDIO 151. (SFCC)

AUDIO 159 - Business of Music (5 cr)

With emphasis on human relations and personal communication skills, students are guided through the maze of the music industry. Skills are developed for working with agents, managers, attorneys, recording company executives, ad agencies, promoters, club owners and musicians. Various music and studio career opportunities are explored along with the pros and cons of contracts, unions, guilds, copyright, publishing and performing rights organizations. (SFCC)

AUDIO 205 - MIDI Arranging (5 cr)

Students compose and arrange music for small groups of instruments as used in live performance, commercial radio and TV jingles. Using Finale notation software and MIDI production software for the Mac workstation, students study composition and style techniques. Prerequisite: AUDIO 218, MUSC 214 and concurrent enrollment in AUDIO 213 and 219 or 255. (SFCC)

AUDIO 206 - Scoring for Film and Multi-Media (5 cr)

This advanced course provides students with a comprehensive foundation of music scoring and sound design structures for film and video. Students use Mac computer workstations and music production software. Open to full time students in the Audio Technology program. Prerequisite: AUDIO 205 and concurrent enrollment in AUDIO 220. (SFCC)

AUDIO 213 - Live Sound II (4 cr)

This course is a continuation of AUDIO 113 with emphasis on setup and operation of larger systems. Students study system design, signal processing, acoustics, troubleshooting, critical listening and effective communication. Students receive extensive hands-on experience running sound for a variety of music ensembles. Prerequisite: AUDIO 113, 156 and concurrent enrollment in AUDIO 217, 218, MUSC 214. (SFCC)

AUDIO 217 - System Setup and Maintenance (3 cr)

Students learn to set up and solve technical problems within a digital audio/MIDI workstation. Learn about MIDI/Audio interface connections and troubleshooting in both digital and combination digital /analog recording studio environments. Prerequisite: MUSC 167 and concurrent enrollment in AUDIO 213 and 218 or 255 and MUSC 214. (SFCC)

AUDIO 218 - Digital Audio III (5 cr)

This course provides intermediate level instruction on Pro Tools digital audio workstations with an emphasis on music editing and professional mixing techniques. Prerequisite: AUDIO 121, 156 and MUSC 167. (SFCC)

AUDIO 219 - Digital Audio IV (5 cr)

This course provides advanced level instruction on Pro Tools digital audio workstations with an emphasis on MIDI and music production. Prerequisite: AUDIO 218 and 213 or 255 and concurrent enrollment in AUDIO 205, 213 or 255. (SFCC)

AUDIO 220 - Digital Audio V (5 cr)

This course will provide an overview of the sound for picture industry as well as in-depth instruction on sound effects creation/ editing, ADR, field recording, synch, and post-production utilizing Pro Tools digital audio workstations. Prerequisite: AUDIO 213, 218 or 255 and concurrent enrollment in AUDIO 205, 213 or 255. (SFCC)

AUDIO 251 - Audio Projects II (1 cr)

Students record, edit, and mix audio projects for their portfolios in this course. Students begin pre-production and then projects are assessed at several points during the recording process. Finished mixes are critiqued and then mastered. Prerequisite: AUDIO 151, 219, 255 and concurrent enrollment in AUDIO 260. (SFCC)

AUDIO 255 - Audio Engineering II (4 cr)

Students study more advanced audio recording and production techniques as they participate in live recording and mixdown sessions. This includes further study of analog and digital signal processing multitrack editing and CD production. Prerequisite: AUDIO 121, 151, 156 and concurrent enrollment in AUDIO 217, 218, MUSC 214. (SFCC)

AUDIO 260 - Audio Portfolio (1 cr)

In this course students assemble a professional audio portfolio for presentation to prospective employers. Students learn advanced signal processing techniques and develop refined critical listening skills. Prerequisite: AUDIO 151, 219, 255 and concurrent enrollment in AUDIO 206, 220, 251. (SFCC)

AUDIO 266 - Cooperative Education Seminar (1 cr)

For course description, see Cooperative Education. (SFCC)

AUDIO 267 - Cooperative Education Work Experience (1-3 cr)

For course description, see Cooperative Education. (SFCC)

AUTOMOTIVE TECHNOLOGY

AUTO 100 - Introduction to Automotive (4 cr)

This course introduces students to what is required of entry level automotive technicians, including, but not limited to, shop safety, tool and equipment usage, locating service information and performing basic service maintenance. (SCC)

AUTO 101 - Electrical Circuitry Theory (5 cr)

The student will learn basic essential electronic concepts; circuits; batteries; starting systems and charging systems. Prerequisite: AUTO 102. (SCC)

AUTO 102 - Electrical Circuitry Applications (3 cr)

This course introduces students to Toyota T-TEN coursework. A brief overview of tire service, tools and equipment, lube service, Toyota information systems and the Toyota Dealership is presented. Prerequisite: Concurrent enrollment in AUTO 103. (SCC)

AUTO 103 - Electrical Wiring Diagrams (5 cr)

This course introduces students to the basic Toyota automotive tool system and testing equipment. Prerequisite: Concurrent enrollment in AUTO 102. (SCC)

AUTO 104 - Advanced Diagnosis of Electronics (4 cr)

This course introduces students to the first portion of the Technician Portfolio and the on-the-job portion of this course. Prerequisite: Dealership qualifications apply. (SCC)

AUTO 106 - Toyota Internship (1 cr)

This course continues the dealership training and TPORT work done as on-the-job training. (SCC)

AUTO 108 - Engine Theory (6 cr)

The student will learn the basic techniques of diagnosis of automotive electronic control engines. (SCC)

AUTO 109 - Engine Repair Applications (2 cr)

This basic course includes component ideas, troubleshooting and diagnosing. (SCC)

AUTO 110 - Introduction to Toyota (1 cr)

This course introduces students to Toyota T-TEN coursework. A brief overview of tire service, tools and equipment, lube service, Toyota information systems and the Toyota Dealership is presented. (SCC)

AUTO 111 - Theory of Brakes (6 cr)

This course is an introduction to the theory and operation of automotive brake systems, hydraulic systems and all types of brake systems. Prerequisite: Concurrent enrollment in AUTO 112. (SCC)

AUTO 112 - Applications of Brakes (4 cr)

This course provides practical shop experience in the application of the principles taught in AUTO 111. Areas of emphasis are hydraulic systems and brake systems. Prerequisite: Concurrent enrollment in AUTO 111. (SCC)

AUTO 113 - Theory of Auto Transmissions/Transaxles (6 cr)

This course provides an introduction to the theory and operation of automotive manual transmissions and transaxles, differential, drive line, and constant velocity joints. Prerequisite: Concurrent enrollment in AUTO 114. (SCC)

AUTO 114 - Application of Auto Transmissions/Tranaxles (4 cr)

This course provides practical shop experience and application of transmissions and transaxles. Prerequisite: Concurrent enrollment in AUTO 113. (SCC)

AUTO 115 - Theory of Electrical Systems (6 cr)

This course introduces students to the theory of basic electrical concepts including Ohm's Law, magnetism, analog and digital meters, and test equipment. Electronics and electrical components also are introduced. Prerequisite: Concurrent enrollment in AUTO 116. (SCC)

AUTO 116 - Diagnosis of Electrical Systems (4 cr)

Practical shop experience in the testing of electrical circuits is offered in this course. Related test equipment such as test lamps, voltmeters, ammeters and ohmmeters is used to diagnose electrical problems. Prerequisite: Concurrent enrollment in AUTO 115. (SCC)

AUTO 117 - Theory of Engine Performance (7 cr)

This course introduces students to the diagnosis and repair of automotive engines. Areas of emphasis includes ignition, fuel, exhaust and emissions control. Prerequisite: Concurrent enrollment in AUTO 118. (SCC)

AUTO 118 - Application of Engine Performance (5 cr)

Students are introduced to practical shop experience in the diagnosis and repair of automotive engines. Ignition, fuel, exhaust and emissions control are emphasized. (SCC)

AUTO 119 - Theory of Heating and Air Conditioning (4 cr)

This course introduces students to the theory of automotive heating and air conditioning systems. (SCC)

AUTO 120 - Application of Heat and AC (2 cr)

This course provides students with practical shop experience in the diagnosis and repair of heating and air conditioning systems. Prerequisite: Concurrent enrollment in AUTO 119. (SCC)

AUTO 122 - Engine Performance, Service, and Repair (5 cr)

Students learn advanced concepts introduced in AUTO 216 and 218. Theory and principles of computerized engine controls, automotive exhaust emissions, fuel injection and ignition systems are emphasized. Prerequisite: AUTO 215, 216. (SCC)

AUTO 123 - Toyota Engine Performance I (4 cr)

The student will learn the Basic techniques of diagnosis of automotive electronic control engines. (SCC)

AUTO 124 - Toyota Engine Performance I Lab (4 cr)

This basic course includes component idea, troubleshooting and diagnosing. Prerequisite: Concurrent enrollment in AUTO 123. (SCC)

AUTO 125 - Toyota Engine Repair (4 cr)

This course enables the student to understand engine operation, cleaning and safety operations. It includes the US and Metric system and troubleshooting and diagnosing. Prerequisite: Concurrent enrollment in AUTO 126. (SCC)

AUTO 126 - Toyota Engine Repair Lab (5 cr)

This course enables the student to remove, reinstall, teardown, overhaul, diagnosis of engine operation, service and repair. Prerequisite: Concurrent enrollment in AUTO 125. (SCC)

AUTO 129 - Theory of Manual Drive Train/Transmissions (5 cr)

Principles of steering systems, including four-wheel alignment, late model transmissions, transaxles and sub-assemblies are emphasized. Prerequisite: Concurrent enrollment in AUTO 130. (SCC)

AUTO 130 - Application of Manual Drive Train/Transmission (3 cr)

This course emphasizes application of principles presented in AUTO 129. Content areas include all types of steering systems, including four-wheel alignments; late model transmissions, transaxles and sub-assemblies. Prerequisite: Concurrent enrollment in AUTO 129. (SCC)

AUTO 131 - Theory of Suspension and Steering (5 cr)

This course introduces students to the basic principles of steering and suspension systems including MacPherson struts and four-wheel alignment. Prerequisite: Concurrent enrollment in AUTO 132. (SCC)

AUTO 132 - Application of Suspension and Steering (3 cr)

This course introduces students to the practical applications of steering and suspension systems including MacPherson struts and four-wheel alignment. Prerequisite: Concurrent enrollment in AUTO 131. (SCC)

AUTO 133 - Toyota Applications of Steering and Suspension Systems (4 cr)

This course includes instruction on the service and repair of all types of steering and suspension systems. (SCC)

AUTO 134 - Heating and Air Conditioning Lecture (5 cr)

Advanced knowledge of the refrigeration process, AC systems, ATC systems diagnosing and repairing all systems are explored in this course. (SCC)

AUTO 135 - Heating and Air Conditioning Application (4 cr) This course includes in-depth advanced knowledge of the repair and service of the refrigeration process, AC Systems, ATC systems diagnosis and repair of all systems explored in this course. (SCC)

AUTO 136 - Toyota Theory of Brakes (5 cr)

This course is an introduction to the theory and operation of automotive brake systems, hydraulic systems and all types of brake systems. Prerequisite: Concurrent enrollment in AUTO 137. (SCC)

AUTO 137 - Toyota Brake Applications (4 cr)

This course provides practical shop experience in the application of the principles taught in AUTO 111. Areas of emphasis are hydraulic systems and brake systems. Prerequisite: Concurrent enrollment in AUTO 136. (SCC)

AUTO 138 - Manual Transmissions Lecture (4 cr)

This course provides an introduction to the theory and operation of automotive manual transmissions and transaxles, differentials, drive lines and constant velocity joints. Prerequisite: Concurrent enrollment in AUTO 139. (SCC)

AUTO 139 - Toyota Manual Transmission Application (3 cr)

This course provides practical shop experience and application of transmissions and transaxles. Prerequisite: Concurrent enrollment in AUTO 138. (SCC)

AUTO 140 - Automatic Transmissions Lecture (4 cr)

Principles of steering systems, including four-wheel alignment, late model transmissions, transaxles, and sub-assemblies are emphasized. Prerequisite: Concurrent enrollment in AUTO 141. (SCC)

AUTO 141 - Toyota Automatic Transmission Applications (5 cr)

This course emphasizes application of principles presented in AUTO 129. Content areas include all types of steering systems, including four-wheel alignments; late model transmissions, transaxles and sub-assemblies. Prerequisite: Concurrent enrollment in AUTO 140. (SCC)

AUTO 142 - Principles of Steering and Suspension Systems (4 cr)

This course introduces students to the practical applications of steering and suspension systems including MacPherson struts and four-wheel alignment. (SCC)

AUTO 150 - Chassis Maintenance (4 cr)

This course covers light maintenance, diagnosis and repair of automotive suspension, steering, heating and air conditioning systems. (SCC)

AUTO 151 - Drive Train Maintenance (6 cr)

This course covers light maintenance, diagnosis and repair of automotive engines, automatic transmission/transaxles, manual drive trains and axles. (SCC)

AUTO 201 - Toyota Brakes (3 cr)

Students learn to identify, describe the purpose, types of applications, and operation methods pertaining to automobile brake systems. (SCC)

AUTO 202 - Toyota Brakes Lab (3 cr)

This course introduces students to Toyota T-TEN coursework. A brief overview of tire service, tools and measurements, lube service, Toyota information systems, and electrical theory and circuitry is presented. Prerequisite: Concurrent enrollment in AUTO 201. (SCC)

AUTO 203 - Toyota Steering and Suspension (3 cr)

This course includes instruction on the service and repair of all types of steering and suspension systems. Prerequisite: Concurrent enrollment in AUTO 202. (SCC)

AUTO 204 - Toyota Steering and Suspension Lab (3 cr)

This course includes instruction on the service and repair of all types of Steering and Suspension systems. Prerequisite: Concurrent enrollment in AUTO 203. (SCC)

AUTO 209 - Toyota Internship (12 cr)

This continues the internship with the dealership using TPORT. Prerequisite: Concurrent enrollment in AUTO 208. (SCC)

AUTO 211 - Theory of Engines (7 cr)

This course is an introduction to the theory and operation of fundamentals of engine diagnosis, cylinder heads, valve trains, engine blocks, lubrication and cooling systems. (SCC)

AUTO 212 - Application of Engine Repair (5 cr)

This course provides practical shop experience in engine repair including engine diagnosis, cylinder head inspection, valve trains, engine blocks, lubrication and cooling fundamentals. (SCC)

AUTO 215 - Theory of Electronic Systems (5 cr)

Students learn the practical application of Ohm's Law, analog and digital meters, and test equipment. Hookup and testing of electronics and electrical components are presented. Prerequisite: AUTO 115, 116 and concurrent enrollment in AUTO 216. (SCC)

AUTO 216 - Diagnosis of Electronic Systems (3 cr)

Students obtain practical shop experience in the repair and replacement of electrical circuits. Related test equipment such as test lamps, voltmeters, ammeters, lab scopes and ohmmeters is used to diagnose electrical problems. Prerequisite: AUTO 115, 116 and concurrent enrollment in AUTO 215. (SCC)

AUTO 219 - Toyota Hybrid Service and Repair (3 cr)

Students explore the purpose, types of applications, and operation methods pertaining to hybrid service and repair. (SCC)

AUTO 220 - Toyota Engine Performance II (3 cr)

This course includes instruction on identifying the components of the standard Toyota engine. It explains the function of engine components and includes advanced shop application. (SCC)

AUTO 221 - Advanced Principles of Engine Performance, Air Conditioning, and Electrical (3 cr)

Students are offered advanced shop experience. The application of principles of computerized engine controls, automotive exhaust emissions, fuel injection and ignition systems is emphasized. (SCC)

AUTO 223 - Toyota Engine Performance II Lab (5 cr)

This course includes advanced knowledge of the purpose, types of applications, and operation methods pertaining to all types of transmissions and transaxles, and suspension systems. (SCC)

AUTO 225 - Toyota Heating and Air Conditioning (2 cr)

Advanced knowledge of the refrigeration process, AC systems, ATC systems diagnosing and repairing all systems are explored in this course. (SCC)

AUTO 226 - Hybrid Safety Service and Repair (4 cr)

This course includes in-depth knowledge of advanced knowledge of the repair and service of the refrigeration process, AC systems, ATC systems diagnosis and repair of all systems explored in this course. (SCC)

AUTO 227 - Theory of Hybrids (4 cr)

This course introduces students to the diagnosis and repair of electric vehicles. Areas of emphasis include alternative fuels, hybrid vehicles, batteries, and safety precautions. Prerequisite: Permission of instructor and concurrent enrollment in AUTO 228. (SCC)

AUTO 228 - Diagnosis of Hybrids (2 cr)

Students are introduced to practical shop experience in the diagnosis and repair of hybrid vehicles. Regenerative brake systems, hybrid vehicle transmissions and transaxles, and various manufacturers' vehicle type controls are emphasized. Prerequisite: AUTO 227 or permission of instructor and concurrent enrollment in AUTO 227. (SCC)

AUTO 230 - Safety Procedures for Hybrids (2 cr)

This course provides students with theory and practical shop experience in the safety procedures used when working on hybrid vehicles. Prerequisite: Permission of instructor. (SCC)

AUTO 236 - Toyota Internship (7 cr)

This is the final internship the student will have with the dealer to complete the Toyota T-TEN program. Prerequisite: Concurrent enrollment in AUTO 226. (SCC)

AUTO 266 - Cooperative Education Seminar (1-2 cr) For course description, see Cooperative Education. (SCC)

AUTO 267 - Cooperative Education Work Experience (1-18 cr)

For course description, see Cooperative Education. (SCC)

AUTO 270 - High Performance Engines (18 cr)

This course is designed for students interested in expanding their knowledge after completion of their A.A.S. degree in Automotive Technology. Special needs and skills required to work on high performance engines are emphasized. Prerequisite: A.A.S. degree in Automotive Technology or ASE Masters degree. (SCC)

AUTO 288 - Cooperative Education Work Experience (No Seminar) (1-18 cr)

For course description, see Cooperative Education. (SCC)

BAKING: PROFESSIONAL PASTRIES AND SPECIALTY CAKES

BAK 101 - Introduction to Baking and Pastries (1 cr)

Students learn terminology of basic baking and methods such as ingredient identification, volume, weights and measurements, and mixing types. (SCC)

BAK 110 - Artisan Breads (5 cr)

Students learn to create hand-crafted, preservative-free breads with natural starters, long-fermentation periods and use of sponges and sour starters. (SCC)

BAK 111 - Pastries (7 cr)

Students learn to produce a variety of yeast breads including Danish, cinnamon rolls, coffee cakes, croissants, artisan and specialty pastries. (SCC)

BAK 120 - Special Occasion Cakes (2 cr)

This course introduces students to techniques needed to produce birthday, wedding and anniversary cakes. (SCC)

BAK 121 - Tortes and Gateau (2.5 cr)

Students learn to produce a variety of European style torts and gateau, bakery style cakes, and sculptured and wedding cakes. (SCC)

BAK 130 - Sculptured Cakes (2.5 cr)

Students learn advanced techniques in producing sculptured, hand-crafted specialty occasion cakes. (SCC)

BAK 131 - Rolled Fondant (2.5 cr)

This course emphasizes the development of advanced techniques in European rolled fondants. (SCC)

BAK 140 - Yeast Doughs (1 cr)

This course introduces students to a variety of mixing methods used to create yeast doughs and breads. (SCC)

BAK 248 - Wedding Cakes (2.5 cr)

Students learn advanced techniques in decorating artistic wedding cakes. (SCC)

BAK 266 - Cooperative Education Seminar (1-2 cr)

For course description, see Cooperative Education. (SCC)

BAK 267 - Cooperative Education Work Experience (1-18 cr) For course description, see Cooperative Education. (SCC)

BAK 288 - Cooperative Education Work Experience

(No Seminar) (1-18 cr)

For course description, see Cooperative Education. (SCC)

BIOEQ 199 - Medical Terminology for Biomedical Equipment Technology (2 cr)

This course presents a study of basic medical terminology for students interested in the field of biomedical equipment technology. Prefixes, suffixes, word roots, combining forms, special endings, plural forms and abbreviations are included in the content. A programmed learning, word building system is used to learn word parts that are used to construct or analyze new terms. Definitions, word usage and pronunciation are emphasized. Prerequisite: Permission of the instructor and enrollment in the biomedical equipment technician program. (SCC)

BIOEQ 242 - Physiology for Biomedical Equipment Technology (3 cr)

Students learn the underlying physiological principles with which medical equipment is designed to interface. A specific level of understanding is expected of students, with emphasis on the cells and the nervous, muscular, circulatory and respiratory systems. Prerequisite: Permission of the instructor and enrollment in the Biomedical Equipment Technician program and concurrent enrollment in BIOEQ 251, 252. (SCC)

BIOEQ 251 - Biomedical Instrumentation Patient Monitoring and Clinical (10 cr)

Students learn the operation of several biomedical instruments by thorough analysis of electronic circuitry. These instruments are directly related to patient monitoring and clinical applications. Prerequisite: Permission of the instructor and enrollment in the Biomedical Equipment Technician program and concurrent enrollment in BIOEQ 242, 252. (SCC)

BIOEQ 252 - Biomedical Instrumentation Laboratory (6 cr)

Students receive hands-on experience with circuits and equipment discussed in BIOEQ 251. Prerequisite: Permission of the instructor and enrollment in the BioMedical Equipment Technician program and concurrent enrollment in BIOEQ 242, 251. (SCC)

BIOEQ 271 - Biomedical Equipment Technology Clinical Rotation (10 cr)

Students are assigned to specific healthcare facilities and apply their knowledge to develop additional skills which enhance their understanding of healthcare environments. Their learning experience is strengthened by functioning within those environments. Prerequisite: BIOEQ 242, 251, 252 and concurrent enrollment in BIOEQ 272. (SCC)

BIOEQ 272 - Biomedical Seminar (4 cr)

Students discuss technical problems, ethics, safety concerns and other situations that may develop during clinical rotation. Students are assisted with the final draft of their resumes. Prerequisite: BIOEQ 242, 251, 252 and concurrent enrollment in BIOEQ 271. (SCC)

BIOLOGY

BIOL 100 - Environmental Biology (5 cr)

This course is the study of man in his environment for nonscience majors and vocational program students. Biological concepts presented in this course include energy production and utilization, waste generation and disposal, population growth and control, and ecosystem construction and destruction. How these concepts are influenced by human activities is emphasized. This course meets A.A. lab science requirements. (SCC, SFCC)

BIOL 105 - General Biology w/Lab (5 cr)

An integrated view of the living world including the nature of sciences, evolution of biological organization, composition and organization of living substances, metabolism, control, reproduction, heredity and ecological relationships. Prerequisite: Currently enrolled in the HIM program or permission of instructor. (SCC)

BIOL 110 - Insects and People (5 cr)

This course is a systematic approach to study insect interactions with one another, their physical and chemical environments, and with people. The course includes competition within and between populations and extends through communities, ecosystems and the biosphere with emphasis on interactions among insects and humans. (SFCC)

BIOL 115 - Biology for Elementary Education (5 cr)

This course Introduces cellular, organismal, and ecosystem biology, including human systems, for students majoring in elementary education. Inquiry based biological investigations that support science instruction outlined in the National Science Education Standards and Washington Essential Academic Learning Requirements are emphasized. Prerequisite: Permission of instructor. (SCC)

BIOL& 160 - General Biology w/Lab (5 cr)

An integrated view of the living world including the nature of sciences, evolution of biological organization, composition and organization of living substances, metabolism, control, reproduction, heredity and ecological relationships. (SCC, SFCC)

BIOL 204 - Human A & P 1 (5 cr)

Human body structure and function with emphasis on introductory cytology and histology; the skeletal, muscular and nervous systems; and the sense organs. Prerequisite: BIOL 105 or permission of instructor. (SCC)

BIOL 205 - Human A & P 2 (5 cr)

Continued study of human body structure and function with emphasis on circulatory, respiratory, digestive, urinary, endocrine and reproductive systems. Prerequisite: BIOL 105, 204. (SCC)

BIOL& 221 - Majors Ecology/Evolution: w/Lab (5 cr)

Intended for students majoring in life sciences, this course provides an introduction to ecology and evolution. Topics cover the origin, evolution, and characteristics of living things and the processes that influence them. Prerequisite: BIOL& 222. (SCC, SFCC)

BIOL& 222 - Majors Cell/Molecular: w/Lab (5 cr)

Intended for students majoring in life sciences, this course provides an introduction to cellular and molecular biology. Topics include cells, cellular respiration, photosynthesis, the cell cycle and genetics. It also fulfills introductory biology requirement for the health sciences. A prior course in chemistry is highly recommended. (SCC, SFCC)

BIOL& 223 - Majors Organismal Phys: w/Lab (5 cr)

Intended for students majoring in life sciences, this course explores how plants and animals work. Topics covered include development, transport, nutrition, osmoregulation, sensory systems, and reproduction. Prerequisite: BIOL& 222. (SCC, SFCC)

BIOL 229 - Field Studies (1 cr)

Coastal temperate rain forest and marine environments are investigated as students prepare specialized topics. Emphasis on integration of topics by visiting ecosystems on the Olympic Peninsula and participating in discussions. Prerequisite: Concurrent enrollment in BIOL& 222 or BOT 113 or ZOOL 121 or permission of the instructor. (SFCC)

BIOL& 241 - Human A & P 1 (5 cr)

Human body structure and function with emphasis on introductory cytology and histology; the skeletal, muscular and nervous systems; and the sense organs. Prerequisite: BIOL& 160 or 222 or permission of instructor. (SCC, SFCC)

BIOL& 242 - Human A & P 2 (5 cr)

Continued study of human body structure and function with emphasis on circulatory, respiratory, digestive, urinary, endocrine and reproductive systems. Prerequisite: BIOL& 241 and either BIOL& 160 or 222 or permission of instructor. (SCC, SFCC)

BIOL 244 - Genetics (5 cr)

This course introduces basic principles of inheritance, the significance of the cell cycle events to variation, genetic links to physical traits, mutations, DNA repair, gene analysis and linkage. Applications and molecular techniques such as DNA sequencing, cloning, genomics and proteomics are introduced. Classical experimental methods and findings are examined in detail. Problem-solving skills that require logic and mathematical understanding are emphasized. Prerequisite: BIOL& 160 or 222. (SCC, SFCC)

BIOL& 260 - Microbiology (5 cr)

Introduction to the study of bacteria, viruses, rickettsia, spirochetes, fungi and protozoa with emphasis on microbial structure, physiology, genetics, physical and chemical control, and the role of microorganisms in disease and immunology. Laboratory includes staining, media making, isolation, cultivation and identification techniques of bacteria. Meets A.A. degree lab science requirement. Prerequisite: BIOL&160 or 222 or permission of instructor. (SCC, SFCC)

BIOL 270 - Biological Investigation (3 cr)

This course introduces students to the fundamentals of scientific methods, experiment design and execution, including data collection and analysis, scientific writing, and use of biological literature. Prerequisite: BIOL& 160, 222, or instructor approval. (SFCC, SCC)

BIOL 280 - Human Cadaver Prosection (3 cr)

This is a three-credit laboratory dissection course in which students dissect a human cadaver. Dissections focus on internal organ systems and are conducted by body region in the following areas: Head, thorax, abdomen, pelvis and cranium. Areas of study include regional surface anatomy, compartments, anatomical and physiological relationships, musculoskeletal structures, vasculature, and nerve supply of the extremities. Class can be repeated up to three times allowing student to develop beginning, intermediate and advanced dissection skills and knowledge. (Repeatable up to 9 credits). Grading option: Pass/Fail. Prerequisite: BIOL& 242 and permission of instructor. (SFCC)

BOTANY

BOT 111 - Botany: Plant Structure and Function (5 cr)

A study of anatomy, physiology and genetics of flowering plants. Meets A.A. degree lab science requirement. Prerequisite: BIOL& 160. (SCC)

BOT 112 - Botany: Survey of the Plant Kingdom (5 cr)

Representative types of plants from the major groups of the plant kingdom with emphasis on structure and taxonomy. Meets A.A. degree lab science requirement. Prerequisite: BIOL& 160. (SCC, SFCC)

BOT 113 - Field Botany (5 cr)

Proficiency acquired in use of plant identification keys. Through laboratory experiences and field trips the student will learn to collect, press and identify by species any plants in Southeastern Washington. Meets A.A. degree lab science requirement. Prerequisite: BIOL& 160 or permission of instructor. (SFCC)

BUSINESS TECHNOLOGY

BT 100 - Beginning Keyboarding (1 cr)

This course introduces students to proper touch keyboarding skills techniques. Emphasis on development of speed and accuracy. Grading option is Pass/Fail. (SCC, SFCC)

BT 101 - Keyboarding (5 cr)

Students learn beginning computer keyboarding that includes the mastery of the alphabetic keyboard using the "key-by-touch" method. Word processing software is presented in conjunction with formatting theory for personal and business letters, memoranda, reports, centering and simple tabulation techniques. Students develop proofreading and editing skills. (SFCC)

BT 102 - Document Processing (5 cr)

This course covers formatting theory and application instruction for personal and business letters, tables, memoranda, and reports using word processing software. Commonly used word processing software features are presented. Instruction includes the development of proofreading, editing, formatting and mechanics of written expressions. Speed and accuracy are emphasized. This course is a continuation of BT 101 or utilized as a refresher course for those who have been away from a keyboard. Prerequisite: BT 101 or keyboarding speed of 30 wpm. (SFCC)

BT 103 - Formatting (5 cr)

Word processing software features, letters, memoranda, tables, reports and special business forms formats are taught. Techniques for speed and accuracy development are presented, and instruction includes the development of proofreading, editing, formatting and mechanics of written expression. Prerequisite: BT 102 or permission of instructor. (SFCC)

BT 104 - Basic Grammar for Business I (5 cr)

Students review the fundamentals of grammar including basic parts of speech, writing simple sentences, and subject/verb identification and agreement. Prerequisite: Reading assessment score of 20-39 percentile. (SCC)

BT 105 - Basic Grammar for Business II (5 cr)

Students review fundamental writing skills with major emphasis on improving sentence structure and grammar. Accuracy in spelling, punctuation, vocabulary and proofreading is stressed. Prerequisite: BT 104. A reading score of at least 33 on the ASSET or 59 on the COMPASS is acceptable in lieu of BT 104. (SCC)

BT 106 - Computing Essentials (5 cr)

Develops beginning computer skills in a Windows-based environment. Includes mastery of the alphabetic keyboard using the "key-by-touch" method, understanding of MS Windows features and terminology, effective application of file management techniques, use of Internet navigation skills, and effective application of beginning Word skills in the creation and formatting of business documents. (SCC)

BT 107 - Business Communications (5 cr)

This course focuses on the basic elements of grammar, punctuation, capitalization, number formats, abbreviations, symbols, and proofreading in preparation for typical business communication messages. (SFCC)

BT 108 - Business Communications (3 cr)

This class concentrates on the mechanics of punctuation and continued review of spelling. Prerequisite: BT 107. (SFCC)

BT 121 - Office Procedures Update (1-3 cr)

A course or courses to include selected material from the following procedural areas: receptionist duties, telephone skills, mail handling, reprographics, ordering and storage of supplies, office careers, travel arrangements, meeting planning and taking of minutes, filing and records management, financial transactions, time management, and office management. (SFCC)

BT 123 - Written Communication Skills Update (1-3 cr)

This course includes selected materials from the following skill areas: basic business grammar, grammar and punctuation review, proofreading, editing, business letter composition, and report preparation. (SFCC)

BT 124 - Office Automation Update (1-3 cr)

This course includes selected material from the following areas: technology used in today's offices; application and evaluation of technological information; integration of applications; information management; organization and control; future technological developments and expectations; and technology as applied to calendaring, electronic mail, spreadsheets, records management and networking. (SFCC)

BT 127 - Human Relations and Professional Development (1-3 cr)

This course includes selected material from the following areas: how to get along with people on the job and in your life; the importance of communication; the qualities of business success; your professional and personal image; and the elements of personal development covering grooming, business dress, nutrition and exercise. (SFCC, SCC)

BT 128 - Office Math Applications (1-5 cr)

Students learn mathematical concepts for the office employee including review of addition, subtraction, multiplication and division, and the use of fractions, percentages and decimals as they pertain to business office applications. Students work with numbers and solve business problems using a 10-key pad including special features found on most modern business desk calculators and apply basic business math formulas. (SCC)

BT 152 - College and Career Strategies (3-5 cr)

Students learn to identify and develop behaviors that lead to personal and academic success. Students learn skills to increase their success in college and to help them achieve their academic and professional goals. (SCC)

BT 155 - Records Information Management (3 cr)

Records management emphasizes the principles and practices of effective management of information for both manual indexing and automated records systems. The basic manual indexing systems concept covers all standard indexing rules published by the Association of Records Managers and Administrators (ARMA). The automated records systems provide the opportunity to work with the kinds of computer databases encountered in business. The process of coordinating both the manual indexing rules and computer indexing rules are stressed. The course emphasizes the need to understand the record's life cycle-from creation to disposition-within the structure of any given organization. The course stresses the federal legislation designed to protect information and the privacy of the individual or organization. The course prepares the student for several career options within the records/information management field. (SFCC)

BT 160 - Job Preparation Techniques (3 cr)

Students prepare for the job search process. Self-analysis, goal setting, personal appearance and grooming, communicating ideas through individual and group presentations, resume writing, application cover letter writing, interviewing practice, and other techniques are emphasized. Prerequisite: Second-year student or permission of instructor. (SCC, SFCC)

BT 165 - Word Processing (5 cr)

Students learn word processing functions such as formatting, maintaining and printing documents including tables and long manuscripts. Using writing tools, manipulating text among and within documents, creating and formatting tables, adding visual appeal, creating charts, and importing data are emphasized. Formatting with macros and styles, and sorting and selecting text and data are presented using Microsoft Word. Critical thinking skills, the mechanics of written expression, proofreading, editing and formatting are included. (SCC)

BT 172 - Publisher (2 cr)

This class offers beginning and advanced instruction in Microsoft Publisher. (SFCC)

BT 196 - Skillbuilding (1 cr)

This individualized program builds keyboarding speed and improves accuracy. It may be taken a maximum of three times. Grading option: Pass/Fail. (SCC, SFCC)

BT 197 - Skillbuilding (1 cr)

This individualized program builds keyboarding speed and improves accuracy. It may be taken a maximum of three times. Grading option: Pass/Fail. Prerequisite: BT 196, 197, 199. (SFCC)

BT 199 - Skillbuilding (1 cr)

This individualized program builds keyboarding speed and improves accuracy. It may be taken a maximum of three times. Grading option: Pass/Fail. (SFCC)

BT 201 - Information Processing (5 cr)

Information processing techniques using word processing, database, spreadsheet and presentation software are taught in this course. Students complete office projects requiring critical thinking and problem-solving skills. Assignments include producing reports using information from databases and spreadsheets, formatting intricate tables and graphs, and correspondence with special features. Prerequisite: Permission of instructor. (SFCC)

BT 204 - Spreadsheet Design and Analysis (5 cr)

This is an in-depth Microsoft Excel course. Students use the software to develop and analyze business spreadsheets. Topics include: creation and formatting of worksheets, workbooks, tables; application of formulas and functions; creation of charts and objects; use of conditional formatting and filtering. This course will also help prepare students for the MS Excel Certification exam. (SCC)

BT 205 - Database Design and Analysis (5 cr)

This is an in-depth Microsoft Access course. Students will learn data management concepts and the use and creation of relational databases as a business tool. Topics include: views, simple and advanced queries, create and modify forms and sub-forms, reports, primary and foreign keys, importing data, formulas, controls and conditional formatting. This course will also help prepare students for the MS Access Certification exam. (SCC)

BT 206 - Electronic Records Management (3 cr)

This course emphasizes the principles and practices of the management of information for both manual indexing and automated records systems. The course analyzes the record's life cycle from creation to disposition within the structure of any given organization. Emphasis is placed on the classification of records, application of filing rules, and the organization and management of manual and electronic information. The basic indexing systems concepts cover a variety of indexing schemes for paper and electronic records. This class provides the opportunity to work with computer databases encountered in business. Students will research and present up-to-date information on retention, retrieval, and storage of records and federal legislation designed to protect information and the privacy of the individual or organization. (SCC)

BT 231 - Office Procedures (5 cr)

This course presents the basic office duties of a receptionist. Answering the telephone, mail handling, reprographics, ordering and storage of supplies. Professionalism and human relations concepts also are presented. Guest speakers and tours may be scheduled. Prerequisite: SFCC only-BT 102. (SCC, SFCC)

BT 232 - Office Procedures II (5 cr)

This course prepares students to handle advanced office tasks required of an administrative assistant. Projects require using technology and organizational skills in handling office communications and managing meetings. Critical-thinking and decision-making abilities are emphasized. Prerequisite: Permission of instructor. (SFCC)

BT 233 - Directed Office Practice (3-6 cr)

Students perform at beginning, intermediate and/or advanced levels of office work in a professional environment. A minimum of one or two hours of lab daily is required. Prerequisite: Permission of instructor. (SCC)

BT 234 - Administrative Professional Practicum (5 cr)

Students gain hands-on experience using current integrated office software while working at their own office work stations using electronic mail, calendaring, scheduling and graphics. Students complete simulated office projects requiring application of information, work organization, perception, human relations skills, prioritizing and decision-making skills. Prerequisite: Permission of instructor. (SFCC)

BT 235 - Machine Transcription (5 cr)

Machine transcription techniques are presented in this course and demonstrated with emphasis on language mechanics, including spelling, punctuation, grammar, style, capitalization, abbreviation, word division and expression of numbers. Word processing software is used to achieve these goals. Prerequisite: BT 105 or 107 or permission of instructor. (SFCC)

BT 236 - Virtual Business Practice (5 cr)

This course prepares students to understand the foundations of working for a virtual business. Students identify resources, marketing strategies, and develop an online presence. Students will practice through simulations and online tools. Prerequisite: Permission of instructor. (SFCC)

BT 251 - Current Trends in Technology (5 cr)

This course provides an overview of office information systems for student entering administrative office careers. Students explore current technology used in offices today and how it impacts office workers. Topics include: microcomputer operation, software, hardware and storage; the Internet and Web 2.0 tools; privacy, security, and ethics; social media, and cloud computing. (SCC)

BT 255 - Business Productivity Tools (3 cr)

This course is designed to prepare students to use computerized business productivity tools to support the functions of management: planning, organizing, leading and controlling. Students will design, customize and implement a variety of business applications. (SFCC)

BT 257 - Presentation Graphics/Publishing (5 cr)

This course is designed to prepare students to create desktop publishing documents for a typical office. Students will be able to design a variety of publications used in an office such as newsletters, letterheads, flyers, and brochures using the latest software. Students will apply design concepts and use appropriate media to present material. Prerequisite: Permission of instructor. (SFCC)

BT 258 - Desktop Publishing (5 cr)

This course is designed to prepare students to create desktop publishing documents for a typical office. Students will be able to design a variety of publications used in an office such as newsletters, letterheads, flyers, and brochures using the latest software. Students will apply design concepts and use appropriate media to present material. Prerequisite: Permission of instructor. (SFCC)

BT 260 - Administrative Office Management (5 cr)

Students are presented with the fundamental principles of office organization and management as applied to business enterprises. Flow of work, routines, equipment and systems are studied. Prerequisite: Second year standing. (SCC, SFCC)

BT 263 - Integrated Office Applications (5 cr)

This project-based capstone course provides comprehensive coverage of Microsoft Office applications. Critical-thinking and problem-solving learning methods will be employed throughout the course. Prerequisite: BT 165, 201 and 202 or permission of instructor. (SCC, SFCC)

BT 266 - Cooperative Education Seminar (1-2 cr)

For course description, see Cooperative Education. (SCC, SFCC)

BT 267 - Cooperative Education Work Experience (1-18 cr) For course description, see Cooperative Education. (SCC, SFCC)

BT 272 - Business Correspondence (5 cr)

Business students learn to write a variety of business messages demonstrating an understanding of strategic choices for specific audiences and purposes and the proficient use of grammar, punctuation, and mechanics. (SCC, SFCC)

BT 273 - Business Research and Report Writing (5 cr)

Students learn to compose common types of business correspondence including the various types of letters, memos and reports. Prerequisite: BT 272 or 274. (SCC)

BT 274 - Business Writing for the Web (5 cr)

This course will build on students' knowledge of general business writing including appropriate choices in style, grammar, and mechanics. Students will adapt those skills for online modes and learn new strategies for reaching online audiences and accomplishing business purposes with those audiences. Students will explore the differences between various audiences and the use of text, images, sound, and visual design to accomplish business purposes effectively. (SCC)

BT 280 - Project Management for the Office (2.5-5 cr)

Students learn the key elements of project management. Students also conduct problem analysis, and develop action plans and cost/benefit analysis using project management software to assist in developing and managing their plans. Prerequisite: Second-year student. (SCC)

BT 285 - Administrative Professional Internship (2-3 cr)

Students apply their office and human relation skills during this two-week assignment at an area business. Internship sites are tailored to meet individual student needs to complement the student's program. Grading option: Pass/Fail. Prerequisite: BT 160 or concurrent enrollment in BT 160. (SCC, SFCC)

BT 288 - Cooperative Education Work Experience (No Seminar) (1-18 cr)

For course description, see Cooperative Education. (SCC)

BUSINESS, GENERAL

BUS 100 - Money Management (3 cr)

Students are introduced to managing all phases of family finances. Tips and techniques to help consumers survive on a limited budget are presented. Subjects include obtaining and using credit; saving money on food, financial services, automobiles, clothing, major appliances, insurance, travel, renting an apartment or buying a home. Students develop personal financial statements and budgets for future use. (SCC, SFCC)

BUS& 101 - Intro to Business (5 cr)

Students are introduced to the broad field of business and its organization, operation and management. Business opportunities, ownership, marketing, physical factors, human resources, finance, regulations and decision-making processes are emphasized. (SCC, SFCC)

BUS 102 - Math Skills for Business (3 cr)

Vocational number skills with or without the use of calculators are presented in the course. Rounding, decimals, fractions, percents, word problems and using special functions on a calculator are emphasized. Applications include commissions, discounts, invoices, checking accounts and interest. (SCC)

BUS 103 - Basic Business Math and Electronic Calculators (5 cr)

Students work with numbers and solve business problems using a 10-key pad including special features found on most modern business desk calculators and apply basic business math formulas. (SCC)

BUS 104 - Business Mathematics (5 cr)

Practical problems in the various fields of business including a review of fundamentals are emphasized in this course. Financial statements, buying and selling goods, simple and compound interest and discounts, annuities, sinking fund and amortization, consumer credit, and stocks and bonds are presented. Prerequisite: BUS 103. (SCC)

BUS 105 - Principles of Leadership (3 cr)

Students learn several theoretical approaches to leadership applicable within various organizational contexts including profit and nonprofit settings. Experiential learning, self-analysis instruments, role playing, case studies and related learning approaches are used to demonstrate the application of leadership principles. Selected skills and values associated with leadership success are taught. (SFCC)

BUS 106 - Applied Leadership (3 cr)

Study and analyze leadership techniques, experience problem solving alternatives, build skills through case studies and through practicing leadership techniques. (SFCC)

BUS 107 - Introduction to Electronic Calculators (1 cr)

Students learn to perform basic operations of an electronic calculator and develop a reasonable combination of speed and accuracy. (SCC, SFCC)

BUS 110 - Basic Mathematics Review (1 cr)

Review of basic number skills. Topics include the arithmetic functions of addition, subtraction, multiplication and division of whole numbers, fractions, and decimals. Note: if you have passed BUS 122 or BUS 123 you may not take this course for credit. (SFCC)

BUS 111 - Percents and Simple Interest (1 cr)

Focuses on calculating with percentages and how to solve for simple interest and maturity values. Note: if you have passed BUS 122 or BUS 123 you may not take this course for credit. (SFCC)

BUS 112 - Payroll and Compound Interest (1 cr)

Introduces payroll calculations with employee pay deductions and employer responsibilities, and compound interest with present and future values. Note: If you have passed BUS 122 or BUS 123 you may not take this course for credit. (SFCC)

BUS 113 - Discounts, Markups and Markdowns (1 cr)

Calculate cash and trade discounts and solve for unknown variables regarding product markups and markdowns. Note: if you have already passed BUS 123 you may not take this course for credit. (SFCC)

BUS 114 - Solving for the Unknown and Business Math Review (1 cr)

How to approach and solve business scenarios and a comprehensive review of basic Business Math concepts. Note: if you have already passed BUS 123 you may not take this course for credit. (SFCC)

BUS 120 - International Business (5 cr)

Students investigate the importance of international business and trade within the U.S., the Pacific Northwest, and Washington State as a way of promoting economic growth and future job opportunities. International people management, international finance and accounting, and international legal and political considerations are emphasized. Other topics addressed are the effects of culture, politics, ethics and communication on international business practices, and overseas marketing and advertising, using an interdisciplinary and multicultural approach. International career options and business opportunities are discussed. (SCC)

BUS 122 - Practical Business Math (3 cr)

Utilize mathematical operations to solve practical business application problems. Core topics include review of basic addition, subtraction, multiplication, division, fractions and percents. Applications include bank reconciliation, simple interest and maturity values, compound interest, present and future values. (SFCC)

BUS 123 - Practical Business Math Applications (5 cr)

Utilize mathematical operations to solve practical business application problems. Core topics include review of basic addition, subtraction, multiplication, division, fractions and percents. Applications include bank reconciliation, simple interest and maturity values, compound interest, present and future values, the cost of installment buying, and the effects of paying off installment loans early versus on time and revolving charge credit cards. Additional topics covered are trade discounts, cash discounts, markups and markdowns, break even analysis, payroll calculations with employee pay deductions and employer responsibilities. (SFCC)

BUS 124 - Intermediate Business Math I (3 cr)

Gain exposure to simple depreciation, common inventory methods, and various financial reports. Calculate basic business statistics such as mean, median, mode, and standard deviation for the purpose of making sound business decisions. Prerequisite: BUS 122 or 123 or 125 or instructor permission. (SFCC)

BUS 125 - Consumer Math (3 cr)

Gain exposure to the cost of credit cards and the benefits of paying off early. Explore various types of mortgages and determine the pros and cons of each. Various types of taxes and insurance coverage will be explained and calculated. Reading and evaluating stocks, bonds, and mutual funds quotations complete this course. Prerequisite: BUS 122 or 123 or 124 or instructor permission. (SFCC)

BUS 140 - International Marketing (3 cr)

The problems of marketing in the international arena and how marketers approach and solve them are addressed in this course. Theory and practice of international marketing through the use of practical examples and actual case studies of international marketing organizations are emphasized. (SCC, SFCC)

BUS& 201 - Business Law (5 cr)

Students learn fundamental principles of law and the legal system and their application and operation in society. Analysis of business fact situations, isolating issues and recognizing the need for appropriate legal counsel, and the exercise of preciseness of language and action in matters with legal significance are emphasized. (SCC, SFCC)

BUS 204 - Introduction to Law (5 cr)

Students study today's legal environment including the various types of law, analysis of the different courts and judicial systems. Tort law, consumer law, domestic relations and estate planning are emphasized. How judges make decisions and what type of relief they may grant are presented. (SCC, SFCC)

BUS 217 - Business Statistics (5 cr)

The application and interpretation of statistics are presented in this course. Descriptive and inferential statistical methods that are most useful in marketing and business research studies are emphasized. Prerequisite: MATH 099 with a 2.0 or better or appropriate placement scores. (SCC, SFCC)

BUS 280 - Human Relations in Business (5 cr)

The needs of the business or other formal work institutions and how they interact with individual needs are covered in this course. Leadership styles, formal organizational policies and procedures, and general cultural patterns to determine how humans act in a work environment are emphasized. The manager's role in creating an acceptable and satisfying organizational climate is covered. (SCC, SFCC)

BUS 284 - Special Business Topics (1-5 cr)

Students are provided a variety of pertinent, current business topics. Course content varies depending upon the number of credits and topics chosen. (SCC)

BUS 285 - Special Business Topics (1-5 cr)

Students are provided a variety of pertinent, current business topics. Course content varies depending upon the number of credits and topics chosen. (SCC)

BUS 286 - Special Business Topics (1-5 cr)

Students are provided a variety of pertinent, current business topics. Course content varies depending upon the number of credits and topics chosen. (SCC)

CAD DESIGN AND DRAFTING

CAD 101 - Introduction to Technology (3 cr)

This course is an overview of engineering careers, applying concepts and general elements of professionalism, strategies, and computer applications for the engineering office. Basic sketching skills, file management commands, computer terminology, data communication concepts, CAD principles and the practical application of relevant software packages are emphasized. (SCC)

CAD 109 - Introduction to Computer Aided Drafting (2-5 cr)

Students are introduced to the fundamentals of computer aided design (CAD) drafting. AutoCAD software using the principles of mechanical, architectural, civil and electrical/electronics is emphasized. (SCC)

CAD 111 - Applied Technical Math 1 (3 cr)

This course introduces theory and practical application of math concepts emphasizing the fundamentals of algebra. (SCC)

CAD 114 - Engineering Graphics/CAD 1 (5 cr)

This course introduces students to fundamental drafting and CAD practices with emphasis on industry drawing standards using manual drafting, sketching, 2D CAD and an introduction to 3D Solid Modeling. (SCC)

CAD 120 - Basic Blueprint Reading (2-3 cr)

This course introduces students to blueprint reading with emphasis on the interpretation of a variety of drafting styles. Students practice freehand sketching. (SCC)

CAD 121 - Applied Technical Math 2 (3 cr)

This course continues with the concepts introduced in CAD 111 to prepare students for advanced-level math. Basic and advanced algebra are reviewed, and an introduction to practical geometry and trigonometry also is presented. Prerequisite: CAD 111. (SCC)

CAD 122 - Applied Computer Aided Drafting (2-5 cr)

Students apply the fundamentals of computer aided design (CAD) drafting to produce industry quality drawings. AutoCAD software using the principles of mechanical, architectural, civil, metric and schematics is emphasized. Prerequisite: CAD 112. (SCC)

CAD 124 - Engineering Graphics/CAD 2 (5 cr)

This course is an extension of CAD 114 with emphasis on CAD drawing methods used in engineering. Dimensioning techniques, auxiliary views and sectioning methods also are emphasized. Prerequisite: CAD 114. (SCC)

CAD 125 - Introduction to Computer Aided Design (3-5 cr)

Students are introduced to the fundamentals of computer aided design (CAD). AutoCAD software as it applies to drawing in a format using the principles of mechanical, architectural, civil and electrical/electronics is emphasized. Prerequisite: ARCHT 112, CIS 105 or approved equivalent. (SCC)

CAD 130 - Introductory Applied Physics (3 cr)

Students are introduced to the basic concepts of our physical world. This course has minimal computational requirements, therefore little math background is required. (SCC)

CAD 132 - Introduction to Design (5 cr)

This course introduces the development of production-type working drawings. Drafting and CAD techniques used to create assembly and detail drawings in orthographic and pictorial formats are emphasized. Raw materials and general machine components also are introduced as well as the selection processes used in industry. Prerequisite: CAD 122, 124. (SCC)

CAD 133 - Introduction to Design (5 cr)

Introduction to the engineering design process, applying math, science, and engineering standards to hands-on projects. Individual and team design solutions using 3D modeling, problem solving, research, and documentation. Prerequisite: CAD 121, 124. (SCC)

CAD 134 - Applied Precision Measuring (1-3 cr)

Areas of emphasis in this course will include the terminology and use of measuring instruments for fabrication and machining, for layout work, and to determine compliance with dimensions and tolerances on engineering drawings. Covers the fundamental skills required to perform basic and precision dimensional measurements and an introduction to the concepts of Statistical Process Control (SPC). Gain proficiency in using rules, scales, tape measures, protractor, calipers, lasers, micrometers, dial gage, height gage and coordinate measuring machine. (SCC)

CAD 136 - Statics (5 cr)

Students study forced systems including vector force principles, forces and reactions at supports, force vector diagrams, coplanar force systems, stresses in truss systems and applied problems. Prerequisite: CAD 245. (SCC)

CAD 137 - Applied Technical Math and Physics (3 cr)

This course continues with the concepts introduced in CAD 111 and 121. Application problems in algebra, practical geometry and trigonometry are presented as well as introducing engineering math applications in statistics and vectors. Prerequisite: CAD 111. (SCC)

CAD 139 - Hydraulics/Pneumatics (3 cr)

Students are introduced to the application, uses and design of hydraulic and pneumatic components used in industry. Students learn the basic of circuit design. (SCC)

CAD 141 - Shop Practices (2 cr)

This course introduces safety practices in the shop. Students learn the basic operation techniques of the lathe, mill, drill press, and various hand and power tools used in a typical shop. Joining techniques such as welding, brazing, soldering and mechanical fasteners are included. (SCC)

CAD 142 - CAD Solid Modeling (3-5 cr)

This course offers advanced computer aided drafting techniques in three-dimensional solid modeling. Individual part files, assembly files, and application files in weldments and sheet metal are emphasized. Solid model prototype printing and CNC applications are also included. (SCC)

CAD 242 - Mechanical Design Fundamentals (5 cr)

This course is a comprehensive study of the design and drawing of machinery components including fasteners, springs, gears, belt drives, chain drives, couplings and bearings. Prerequisite: CAD 121, 137, 142. (SCC)

CAD 243 - Building Systems Mechanical CAD Applications (3 cr)

This course introduces advanced concepts in CAD and applies these skills in introductory mechanical building systems for architectural, structural, and civil drafting and design projects. Students research and begin to explore the definition of this field as well as use CAD to create drafting projects and demonstrate the ability to present their projects in an engineering format. Prerequisite: CAD 124. (SCC)

CAD 244 - Structural CAD Applications (3-4 cr)

This course introduces advanced concepts and applies CAD skills in structural engineering drafting and design projects. Students research and develop a comprehensive definition of this field as well as use CAD to create drafting projects and demonstrate the ability to present their projects in an engineering format. Prerequisite: CAD 132. (SCC)

CAD 245 - Applied Physics (5 cr)

This course introduces basic concepts of our physical world. Application of physics laws using algebra, trigonometry and geometry is employed. A minimum math background equal to MATH 100 or CAD 123 is required to meet computational requirements. Prerequisite: CAD 123 or MATH 100. (SCC)

CAD 246 - Manufacturing Processes and Precision Measuring (2-3 cr)

This course is a comprehensive study of the processing of materials, industry standards and manufacturing techniques used in industry. It also incorporates the application of precision measuring tools for manufacturing, quality, and design considerations. (SCC)

CAD 251 - Applied Tolerances and GDT (3 cr)

This course introduces the use of geometric calculations and measuring instruments to determine true tolerances on detail drawings. Both linear tolerances and "Geometric Dimensioning and Tolerancing" formats are covered. Prerequisite: CAD 121, 124. (SCC)

CAD 252 - CAD Solid Modeling/Graphics 2 (4-5 cr)

This course presents advanced concepts and applications for computer assisted drafting systems in an engineering environment. Advanced drafting techniques are included with emphasis on three-dimensional solid modeling. Software/hardware customization techniques including menus, start-up, CAD programming fundamentals and management skills are also emphasized. Prerequisite: CAD 241. (SCC)

CAD 253 - Strength of Materials/Materials Science (5 cr)

Students study the strength of materials and the effects of stress. Types of stress and deformation, stress-strain diagrams, stress analysis and design problems are emphasized. Applied machine design, and structural and beam design projects are included. Study the characteristics of a variety of materials including specifications, tolerance, weight, and heat treating capabilities. Prerequisite: CAD 245. (SCC)

CAD 254 - Materials Science (2 cr)

This course is a comprehensive study of the characteristics of a variety of materials including their standards and specifications, tolerance, weight, and heat treating capabilities. Prerequisite: CET 245. (SCC)

CAD 255 - Technical Applications I (3-5 cr)

Students practice applied projects related to engineering technology that include interdepartmental projects, CAD design, shop skills and computer applications. This course may substitute cooperative education courses. Prerequisite: CAD 247. (SCC)

CAD 256 - Mechanical CAD Applications (3-4 cr)

This course introduces advanced concepts and applies CAD skills in mechanical engineering drafting and design projects. Students research and develop a comprehensive definition of this field as well as use CAD to create drafting projects and demonstrate the ability to present their projects in an engineering format. Prerequisite: CAD 132. (SCC)

CAD 258 - Schematic CAD Applications (4 cr)

This course introduces advanced concepts and applies CAD drafting skills in schematic engineering drafting and design projects. Students research and develop a comprehensive definition of this field as well as use CAD to create drafting projects and demonstrate the ability to present their projects in an engineering format. Prerequisite: CAD 132. (SCC)

CAD 260 - Fabrication and Piping CAD Applications (3 cr)

This course introduces advanced concepts and applies CAD drafting skills in sheet metal/HVAC fabrication drafting and piping drafting projects. Students research and develop a comprehensive definition of this field as well as use CAD to create drafting projects and then demonstrate the ability to present their projects in an engineering format. Prerequisite: CAD 132. (SCC)

CAD 261 - Project Design and Management (3-5 cr)

This advanced course is structured to correlate all technical disciplines covered in design and mathematics courses. Power transmission systems and power requirements, design techniques for specific mechanical systems, new product design and documentation are emphasized. Projects are managed with team involvement and planning software and then presented in a formal engineering report format. Prerequisite: CAD 124, 137, 241. (SCC)

CAD 262 - Electrical Theory for Engineering (5 cr)

This course introduces the concepts of basic electrical theory including alternating and direct current. Component identification and manufacturing processes of printed circuit boards, integrated circuits and wiring hardware are emphasized. Students learn to read and create electrical schematic diagrams and flow/logic charts. (SCC)

CAD 263 - Machine Controls (2 cr)

The course introduces machine control systems. Students identify and design electro-mechanical, electronic and hydraulic and pneumatic control systems. The function of programmable logic controllers and basic programming techniques are emphasized. (SCC)

CAD 264 - Technical Applications II (2-5 cr)

The course continues with the applications offered in CAD 255 with emphasis on special projects related to manufacturing practices and shop personnel interactions. Prerequisite: CAD 255. (SCC)

CAD 265 - Manufacturing and Measuring Systems (2-3 cr)

Areas of emphasis in this course will include the terminology and use of manufacturing systems, measuring instruments for fabrication and machining, for layout work, and to determine compliance with dimensions and tolerances on engineering drawings and an introduction to the concepts of Statistical Process Control (SPC). Gain proficiency in using precision measuring tools and coordinate measuring machines. (SCC)

CAD 266 - Cooperative Education Seminar (1-2 cr)

For course description, see Cooperative Education. (SCC)

CAD 267 - Cooperative Education Work Experience (1-18 cr)

For course description, see Cooperative Education. (SCC)

CAD 268 - Schematics/Advanced CAD (3 cr)

This course introduces basic CAD Schematic Drafting for electronics, industrial electricity, and hydraulic/pneumatic systems. The course includes advanced functions of CAD and Solid Modeling applications. Prerequisite: CAD 124,142. (SCC)

CAD 269 - Civil CAD Applications (3-4 cr)

This course introduces advanced concepts and applies CAD drafting skills in civil engineering drafting and design projects. Students research and develop a comprehensive definition of this field as well as use CAD to create drafting projects and then demonstrate the ability to present their projects in an engineering format. Prerequisite: CAD 132. (SCC)

CAD 288 - Cooperative Education Work Experience (No Seminar) (1 cr)

For course description, see Cooperative Education. (SCC)

COMPUTING-COMPUTER APPLICATIONS

CAPPS 100 - Beginning Computer Skills (2 cr)

For new computer users. A beginning class with a focus on computer terminology and skills. Topics include Windows, Internet, beginning email, and beginning office software applications. (SFCC)

CAPPS 102 - Introduction to Office (1 cr)

This beginning course is designed for students with no previous computer experience. Students learn the basics of Word, Excel, Access, and PowerPoint software. Students apply learning to various business activities and personal applications. (SFCC)

CAPPS 104 - Beginning Windows Operating System (1 cr)

This beginning course introduces students to the latest Microsoft PC Operating System. Students learn how to customize, navigate, manage files and folders, and browse the Internet. Students also learn various control features and settings on the computer. (SFCC)

CAPPS 141 - Word I (2 cr)

Microsoft Word at an introductory level. Students will learn how to navigate, create, edit, format, and save documents. Students will also be able to use headers and footers, lists, pictures, clip art, and tables to enhance documents. Prerequisite: Minimum Reading COMPASS Score of 80 OR Reading ASSET Score of 40. (SFCC)

CAPPS 142 - Word II (2 cr)

Microsoft Word at an intermediate level. Students will learn how to create and use styles, WordArt, drawing tools, outlines, charts, web pages, and track changes. Prerequisite: CAPPS 141. (SFCC)

CAPPS 151 - Excel I (2 cr)

Microsoft Excel at an introductory level. Students will learn how to navigate worksheets and workbooks, use formulas and functions, format worksheets and cells. Prerequisite: Minimum Reading COMPASS Score of 80 OR Reading ASSET Score of 40 and SFCC math placement test of MATH 93 or completion of BUS 122. (SFCC)

CAPPS 152 - Excel II (2 cr)

Microsoft Excel at an intermediate level. Students will learn how to use IF functions, create charts and tables, sort and filter data, and use graphic elements. Prerequisite: CAPPS 151. (SFCC)

CAPPS 161 - Access I (2 cr)

Microsoft Access at an introductory level. Students will learn how to create and work with tables, sort and filter records, create and use queries. Prerequisite: Minimum Reading COMPASS Score of 80 OR Reading ASSET Score of 40 and SFCC math placement test score of MATH 93 or completion of BUS 122. (SFCC)

CAPPS 162 - Access II (2 cr)

Microsoft Access at an intermediate level. Students will learn how to create and modify forms, reports, table relationships, and queries. Prerequisite: CAPPS 161. (SFCC)

CAPPS 171 - PowerPoint I (2 cr)

PowerPoint at an introductory level. Students will create and edit presentations. Students will be able to format slide elements, insert and apply slide transitions, use themes, clip art, and speaker notes. Prerequisite: Minimum Reading COMPASS Score of 80 OR Reading ASSET Score of 40. (SFCC)

CAPPS 172 - PowerPoint II (2 cr)

PowerPoint at an intermediate level. Students will be able to enhance a presentation with graphic elements, insert sound, and create photo albums. Students will also be able to apply and modify slide transitions and animation effects, use charts and graphics in presentations. Prerequisite: CAPPS 171. (SFCC)

CAPPS 180 - Outlook (2 cr)

The purpose of this course is to introduce students to the tools needed to send and receive e-mail, organize schedules, maintain contact lists and notes. Students also may learn other tools to manage messaging and business information. Prerequisite: BT 101 or CAPPS 141 or permission of instructor. (SFCC)

CAPPS 222 - Software Update (1-4 cr)

This course is for intermediate to advanced users of Word, Excel, Access, and PowerPoint. Students will learn the most up-to-date features and commonly used tools of the application software and be able to apply new methods to a variety of problem solving activities. (Repeatable up to 4 credits.) Prerequisite: Permission of instructor. (SFCC)

CAPPS 241 - Word III (2 cr)

Microsoft Word at an advanced level. Students will learn advanced table features, mail merging, and forms. Prerequisite: CAPPS 142. (SFCC)

CAPPS 242 - Word IV (2 cr)

Microsoft Word at an advanced level. Students will learn to work with multi-page documents creating and managing master documents, indexes, and contents pages. Students will also be able to create and use macros and integrate Word with other applications. Prerequisite: CAPPS 241. (SFCC)

CAPPS 251 - Excel III (2 cr)

Microsoft Excel at an advanced level. Students will learn how to create and use named ranges, templates, 3D references. Students will also learn how to use database features and functions and use statistical and logical functions. Prerequisite: CAPPS 152. (SFCC)

CAPPS 252 - Excel IV (2 cr)

Microsoft Excel at an advanced level. Students will learn how to create macros, templates, and forms. Students will also learn nesting functions, data tables, scenarios, and solver. Prerequisite: CAPPS 251. (SFCC)

CAPPS 261 - Access III (2 cr)

Microsoft Access at an advanced level. Students will learn how to create and format forms, create efficient reports, and automate forms. Students will also learn how to integrate Access with other applications. Prerequisite: CAPPS 162. (SFCC)

CAPPS 262 - Access IV (2 cr)

Microsoft Access at an advanced level. Students will learn macros, PivotTables from queries, database backup and security procedures. Prerequisite: CAPPS 261. (SFCC)

CAPPS 271 - PowerPoint III (2 cr)

PowerPoint at an advanced level. Students will create and publish custom presentations. Students will learn to integrate PowerPoint with other applications and prepare a culminating project. Prerequisite: CAPPS 172. (SFCC)

COMPUTER APPLICATION TECHNOLOGY TRAINING

CATT 102 - Introduction to Outlook (2.5 cr)

Using Outlook, students learn to communicate through e-mail, maintain electronic calendars, schedule meetings, use contacts, customize menus and taskbars, send/receive faxes, and import/export data among applications. (SCC)

CATT 120 - Microsoft Word I (1-2.5 cr)

Students learn and apply basic functions of Microsoft Word to create, print and edit documents such as letters, tables, memos, reports, labels and envelopes; format characters and paragraphs; insert section and page breaks; add bullets and numbers to lists; and use Word's writing tools. The skills required for the core level of the Microsoft Word MOUS (Microsoft Office User Specialist) certification examination are presented in CATT 120 and 121. (SCC)

CATT 121 - Microsoft Word II (1-2.5 cr)

This course is a continuation of CATT 120. Students learn and apply functions of Microsoft word to add headers, footers and page numbers to documents; create and modify column structure; use Wizard and templates to create new documents; create and modify tables by adding borders and changing table structure; enhance documents with pictures and charts; and manage files. (SCC)

CATT 122 - Microsoft Access I (1-3 cr)

This course presents theory and application in the basic concepts and terminology of relational database management. Students plan and design databases in addition to building and modifying tables and forms. The skills required for the Microsoft Access MOUS (Microsoft Office User Specialist) certification examination are presented in CATT 122 and 123. (SCC)

CATT 123 - Microsoft Access II (1-2.5 cr)

Students learn and apply functions of Microsoft Access to view and organize information, define relationships, produce reports and integrate with other applications. (SCC)

CATT 128 - Desktop Publishing (5 cr)

This introductory course is designed for students with little or no background in desktop publishing. Emphasis is placed on basic concepts and terminology common to popular desktop publishing software. Basic DOS functions used in desktop publishing are introduced. (SCC)

CATT 138 - Microsoft Excel I (1-2.5 cr)

This course presents the basic functions of Microsoft Excel required to create, modify, format and print spreadsheets. The skills required for the core level of the Microsoft Excel MOUS (Microsoft Office User Specialist) certification examination are presented in CATT 138 and 139. (SCC)

CATT 139 - Microsoft Excel II (2.5 cr)

This course is a continuation of CATT 138. Students learn to work with worksheets and workbooks, formulas and functions, and to use charts and objects. (SCC)

CATT 190 - Introduction to PowerPoint (1-2.5 cr)

Students learn and apply the fundamentals of Microsoft PowerPoint to create and modify presentations; and use design templates, the Office Clipboard, Format Painter and Word Art in addition to the drawing tools. Skills required for the PowerPoint MOUS (Microsoft Office User Specialist) certification examination are presented. (SCC)

CATT 191 - Advanced PowerPoint (2.5 cr)

Students learn and apply advanced features of Microsoft PowerPoint to modify and create presentations by customizing the color schemes, adding charts and graphs, building and modifying organization charts importing Word and Excel documents, adding links to presentations, and adding animation. (SCC)

CATT 220 - Advanced Microsoft Word I (2.5 cr)

This course is a continuation of CATT 121. Students learn and apply advanced functions of Microsoft Word to create and edit document styles, work with master documents and subdocuments, create and modify a table of contents or index, use tables with embedded worksheets, sort lists, and create and revise footnotes and endnotes. (SCC)

CATT 221 - Advanced Microsoft Word II (2.5 cr)

This is the final course in a series covering Microsoft Word and is a continuation of CATT 220. Students learn and apply advanced functions of Microsoft Word to sort and create merged documents such as letters, envelopes and labels; to create, apply, copy, rename and edit macros; to create and modify forms; and to collaborate with work groups through comments, multiple versions and tracking of documents. (SCC)

CATT 222 - Advanced Microsoft Access I (2.5 cr)

This course presents advanced Microsoft Access functions including building, modifying tables and forms, and refining queries. (SCC)

CATT 223 - Advanced Microsoft Access II (2.5 cr)

This course is a continuation of CATT 222 and presents advanced Microsoft Access functions with an emphasis on utilizing web capabilities, producing reports, using Access tools and integrating data. (SCC)

CATT 238 - Advanced Microsoft Excel I (2.5 cr)

This course covers advanced concepts for using Microsoft Excel. Students use templates and multiple workbooks; work with toolbars; and record, run and edit macros. (SCC)

CATT 239 - Advanced Microsoft Excel II (2.5 cr)

This course is a continuation of CATT 238. Students record, run and edit macros; extract data and apply data filters; use analysis tools; and learn how to collaborate in workgroups. (SCC)

CATT 241 - Microsoft Project (2.5 cr)

Students develop skills using computer software to plan, execute, control and close a project in order to meet the project's goal. Students use MS Project as a central database to organize all project information. This course focuses on determining tasks and resources, creating project schedules, using Gantt charts and network diagrams to monitor projects, and generating project reports. Prerequisite: CIS 110 or equivalent experience is recommended. (SCC)

CATT 242 - Advanced Microsoft Project (2.5 cr)

Using MS Project, students will continue to develop and enhance the skills they learned in CATT 241. Students will use MS Project to track progress, develop reports, integrate Project information with other MS office software, create and use templates and use a master project. In addition, a major emphasis of this class is on the practical application of MS Project through the use of case studies or projects chosen by the students. Prerequisite: Previous or concurrent enrollment in CATT 241 is required. (SCC)

CHEMISTRY

CHEM& 110 - Chemical Concepts w/Lab (5 cr)

A survey course of basic concepts in chemistry with emphasis on the application of these topics in society. Topics covered may include philosophy and methods of science, arithmetic calculations, the metric system, unit conversions, atomic theory, chemical bonding, types of chemical reactions, gases, nuclear chemistry and current chemical issues such as ozone layer depletion, energy and society, acid rain, polymers, or foods and drugs among others. Recommended for non-science and liberal arts majors. Fulfills laboratory science requirement for AA degree. (SCC, SFCC)

CHEM 114 - Introduction to Chemistry-Online (5 cr)

Introduction to chemistry is a non-lab, entry-level chemistry class with a modest prerequisite of elementary algebra. This course is taught online via the Internet and is aimed at students who have no prior chemistry experience. Students gradually learn content and develop skills needed to succeed in a laboratory science and advance to the next level of chemistry curriculum. DOES NOT SATISFY ANY AA DEGREE REQUIREMENTS AND IS NOT TRANSFERRABLE. Prerequisite: Working knowledge of basic algebra. (SCC)

CHEM 115 - Environmental Chemistry w/Lab (5 cr)

This introductory course explores a wide range of topics for nonscience majors. Topics include ozone and SMOG chemistry, airborne particulates and acid rain, the greenhouse effect and ozone layer, structure and chemistry of freshwater bodies, environmental impact of metals and organic pollutants, water soil contaminants and their persistence of contaminants, and soil degradation and chemical assessment of contaminants soils. Soil and water remediation, and energy utilization and conservation are emphasized. Fulfills laboratory science requirements for AA degree. (SCC)

CHEM& 121 - Intro to Chemistry: w/Lab (5 cr)

A survey of inorganic chemistry for nursing and allied health sciences. Includes atomic structure, bonding periodicity, stoichiometry, gases, equilibrium, solution chemistry and nuclear chemistry. Fulfills laboratory science requirement for AA degree. (SCC, SFCC)

CHEM& 122 - Intro to Organic Chem: w/Lab (5 cr)

A survey or organic chemistry including structure, function and chemistry of aliphatic and aromatic hydrocarbons, alcohols, ethers, carboxylic acids, amines and related compounds; mechanisms, and stereochemistry. Fulfills laboratory science requirement for AA degree. Prerequisite: CHEM& 121 or permission of instructor. (SCC, SFCC)

CHEM& 123 - Intro to Biochemistry: w/Lab (5 cr)

A brief survey of biochemical principles, including structures of biomolecules, enzymatic catalysis, thermodynamics, metabolic pathways, genetic expression and biotechnology. Fulfills laboratory science requirement for AA degree. Prerequisite: CHEM& 122 or permission of instructor. (SCC, SFCC)

CHEM& 140 - General Chem Prep with Lab (5 cr)

A survey course of basic topics in chemistry, which may include philosophy and methods of science, arithmetic calculations, the metric system, unit conversions, atomic theory, chemical bonding, types of reactions, stoichiometry, gases, solutions, acid-base chemistry, nuclear chemistry, kinetic molecular theory, equilibrium and redox. Recommended for students who plan to take CHEM& 161 but have not had High School chemistry or for students that want to fulfill laboratory science requirement for AA degree. (SFCC)

CHEM& 161 - General Chem: w/Lab I (5 cr)

This series offers rigorous instruction in general chemistry. Topics include measurements, atomic structure, ionic and molecular compounds, aqueous solutions and molarity, chemical reactions, stoichiometry, gases, quantum theory and electronic structure, periodicity, chemical bonding, molecular geometry, solid and liquid states, solutions, chemical kinetics, chemical equilibrium, acids and bases, solubility equilibriums, thermo chemistry and chemical thermodynamics, and electrochemistry. Other topics selected at the discretion of the instructor include nuclear chemistry, coordination chemistry, environmental chemistry, organic and biochemistry, modern materials, etc. Lab involves both qualitative and quantitative aspects of chemistry with necessary accuracy for such work. Note: the topics in this three-quarter sequence may be presented in various orders depending on the institution and the text used. Students are strongly encouraged to complete all three courses at the same institution to help ensure coverage of the full range of important topics in general chemistry. Prerequisite: Currently enrolled in or have taken: MATH& 141 or higher level math courses, or permission of instructor. (SCC, SFCC)

CHEM& 162 - General Chem w/ Lab II (5 cr)

This series offers rigorous instruction in general chemistry. Topics include measurements, atomic structure, ionic and molecular compounds, aqueous solutions and molarity, chemical reactions, stoichiometry, gases, quantum theory and electronic structure, periodicity, chemical bonding, molecular geometry, solid and liquid states, solutions, chemical kinetics, chemical equilibrium, acids and bases, solubility equilibriums, thermo chemistry and chemical thermodynamics, and electrochemistry. Other topics selected at the discretion of the instructor include nuclear chemistry, coordination chemistry, environmental chemistry, organic and biochemistry, modern materials, etc. Lab involves both qualitative and quantitative aspects of chemistry with necessary accuracy for such work. Note: the topics in this three-quarter sequence may be presented in various orders depending on the institution and the text used. Students are strongly encouraged to complete all three courses at the same institution to help ensure coverage of the full range of important topics in general chemistry. Prerequisite: CHEM& 161 or permission of instructor. (SCC, SFCC)

CHEM& 163 - General Chem w/ Lab III (5 cr)

This series offers rigorous instruction in general chemistry. Topics include measurements, atomic structure, ionic and molecular compounds, aqueous solutions and molarity, chemical reactions, stoichiometry, gases, quantum theory and electronic structure, periodicity, chemical bonding, molecular geometry, solid and liquid states, solutions, chemical kinetics, chemical equilibrium, acids and bases, solubility equilibriums, thermo chemistry and chemical thermodynamics, and electrochemistry. Other topics selected at the discretion of the instructor include nuclear chemistry, coordination chemistry, environmental chemistry, organic and biochemistry, modern materials, etc. Lab involves both gualitative and guantitative aspects of chemistry with necessary accuracy for such work. Note: the topics in this three-quarter sequence may be presented in various orders depending on the institution and the text used. Students are strongly encouraged to complete all three courses at the same

institution to help ensure coverage of the full range of important topics in general chemistry. Prerequisite: CHEM& 162 or permission of instructor. (SCC, SFCC)

CHEM& 241 - Organic Chem I (3 cr)

This course covers structure, bonding, molecular properties, an overview of organic reactions, and stereochemistry, with emphasis on the nomenclature, physical properties, chemical reactivity mechanisms and chemical reactions of the following organic families: alkanes, cycloalkanes, alkenes, alkynes and alkylhalides. Prerequisite: CHEM& 163 or equivalent and concurrent enrollment in CHEM& 241, CHEM& 251. (SCC, SFCC)

CHEM& 242 - Organic Chem II (3 cr)

This course is a continuation of CHEM& 241 in which the study of organic families continues with aromatic compounds (benzene), alcohols, thiols, ethers, epoxides, sulfides, aldehydes and ketones. Spectroscopy (IR, UV, NMR, MS) also are discussed. Prerequisite: CHEM& 241, CHEM& 251 and concurrent enrollment in CHEM& 252. (SCC, SFCC)

CHEM& 243 - Organic Chem III (3 cr)

This course is a continuation of CHEM& 242 and focuses on the properties and chemical reactivity, mechanisms, nomenclature and spectroscopy of the rest of the organic families which include carboxylic acids and derivatives (acid halides, acid anhydrides, esters, amides, and nitriles), carbonyl alpha-substitution reactions, carbonyl condensation reactions, aliphatic amines, arylamines and phenols. Optional subjects are biomolecules (carbohydrates, amino acids, proteins, lipids, heterocycles and nucleic acids). Prerequisite: CHEM& 242, CHEM& 252 and concurrent enrollment in CHEM& 253. (SCC, SFCC)

CHEM& 251 - Organic Chem Lab I (2 cr)

This course involves experiments that demonstrate the techniques used in organic synthesis, isolation and purification of organic compounds. These techniques include recrystallization, extraction, chromatographic techniques, distillation techniques, sublimation, melting point determination and reflux. Prerequisite: Concurrent enrollment in CHEM& 241. (SCC, SFCC)

CHEM& 252 - Organic Chem Lab II (2 cr)

This course uses experiments to support lecture in the mechanistic approach of chemical synthesis and instrumentation. Prerequisite: CHEM& 241, CHEM& 251 and concurrent enrollment in CHEM& 242. (SCC, SFCC)

CHEM& 253 - Organic Chem Lab III (2 cr)

This course supports the concepts and mechanisms discussed in CHEM& 243 with organic synthesis experiments. Prerequisite: CHEM& 242, CHEM& 252 and concurrent enrollment in CHEM& 243. (SCC, SFCC)

CHINESE

CHIN& 121 - Chinese I (5 cr)

Students are introduced to the Chinese language and the current use of simplified characters. Official Mandarin Chinese is used for beginners using Pinyin (Chinese sound system). This course maintains regional standards for competency and vocabulary. Language lab is required. (SFCC)

CHIN& 122 - Chinese II (5 cr)

Students continue with the concepts introduced in CHIN& 121 to learn the Chinese language and current use of simplified characters. Official Mandarin Chinese is used for beginners using Pinyin (Chinese sound system). This course maintains regional standards for competency and vocabulary. Language lab is required. Prerequisite: CHIN& 121 or permission of instructor. (SFCC)

CHIN& 123 - Chinese III (5 cr)

Students continue with the concepts introduced in CHIN& 122 to learn the Chinese language and current use of simplified characters. Official Mandarin Chinese is used for beginners using Pinyin (Chinese sound system). This course maintains regional standards for competency and vocabulary. Language lab is required. Prerequisite: CHIN& 122 or permission of instructor. (SFCC)

COMPUTER INFORMATION SYSTEMS

CIS 103 - Mobile Devices (5 cr)

This course introduces students to basic computer concepts and practical application of relevant software as required in the health care system. (SCC)

CIS 104 - Mobile Device Management (5 cr)

This course introduces students to basic mobile device management. Prerequisite: CIS 103 or permission of instructor. (SCC)

CIS 105 - Computer Fundamentals for Vocations I (1-5 cr)

This course introduces students to basic computer concepts and practical application of relevant application software. Course content may vary depending on individual vocational programs needs. (SCC)

CIS 106 - Network Math (2 cr)

This course covers math concepts for Network Design and Administration Students, and covers objectives such as IP addressing, subnetting, number system conversion, and systematic troubleshooting using network models. Prerequisite: MATH 91 with a 2.0 or better within the last three years; or appropriate placement score and concurrently enrolled in MATH 104. (SCC)

CIS 107 - Computer Math (2 cr)

This course covers math concepts for Software Development Students, and covers objectives such as floating point math, assignment operations vs. equations, computer precedence, boolean logic, and math related computer programming concepts. Prerequisite: MATH 91 with a 2.0 or better within the last three years; or appropriate placement score and concurrently enrolled in MATH 104. (SCC)

CIS 110 - Introduction to Computer Applications (5 cr)

The basic principles of computers and business application software including word processing, spreadsheets and database software are introduced in this course. The in-depth study of basic commands and concepts, and the applications of a variety of commercial software are emphasized. (SCC)

CIS 111 - HTML5/CSS I (5 cr)

This course introduces basic concepts of the HyperText Markup Language (HTML) and Cascading Style Sheets (CSS). Students learn the technology required to develop and maintain static web sites. (SCC)

CIS 112 - Web Graphics with Photoshop (3 cr)

This course provides an in-depth exploration of how to plan, design and execute visually appropriate images using Adobe Photoshop. Masks, text, effects, and general photo composition are utilized to create posters, 3-d images, and images which can eventually be utilized in website design and construction. (SCC)

CIS 114 - JavaScript/jQuery (5 cr)

This course teaches the fundamentals of the JavaScript language and how to create sophisticated and interactive web pages through client-side scripting using jQuery libraries. Prerequisite: CIS 130 and (256 or 282) each with a passing grade of 2.0 or better or permission of instructor. (SCC)

CIS 126 - DBMS/SQL (5 cr)

This course introduces ANSI SQL. Students learn the uses of SQL scripting as it pertains to common database management systems such as MySQL, Oracle, SQL Server or DB2. Students acquire the ability to create, modify and delete data and data structures. Students also learn to implement SQL using web technologies. Prerequisite: CIS 146 with a passing grade of 2.0 or better or permission of instructor. (SCC)

CIS 127 - SQL Server and Transact-SQL (5 cr)

Students learn to design and implement a SQL Server database. Once the relational database is developed, students program web applications using stored procedures created with Transact-SQL. Prerequisite: CIS 126 or permission of instructor. (SCC)

CIS 130 - HTML5/CSS II (5 cr)

Students are introduced to the techniques, processes and terminologies for designing a static web site from the first concept to the finished web site. Planning aspects and basic elements necessary to publish a successful site are emphasized. Cascading Style Sheets (CSS) are heavily emphasized. Prerequisite: CIS 111 with a passing grade of 2.0 or better; CIS 112 recommended; or permission of instructor. (SCC)

CIS 138 - Home Networking (2.5 cr)

This course introduces the basic terminology, concepts and architecture of computer home networking. (SCC)

CIS 139 - Small Office Home Office Computer Basics (2.5 cr)

This course prepares students for basic set-up, maintenance, and troubleshooting of Small Office/Home Office computers and associated devices. (SCC)

CIS 146 - Introduction to Programming/VB (5 cr)

Students will explore basic programming concepts using Microsoft Visual Basic. Concepts include object-oriented principles and implementation, structured programming principles (data types, variables, loops, selection structures) and debugging techniques are utilized by students to solve beginning-level computer application problems. The understanding and mastery of the terms, concepts, and theories of today's information technology programmers/analysts are the main objectives of this course. (SCC)

CIS 147 - Emerging Technologies 1 (1-5 cr)

Students research and evaluate emerging technologies. In addition, students make presentations about the features and uses of web technology to both the class and the entire software development program. This class hones writing, development and presentation skills both as an individual and in team settings. Course content varies depending upon the number of credits and topics chosen. Prerequisite: CIS 146 with a passing grade of 2.0 or better or permission of instructor. (SCC)

CIS 149 - Networking for Developers (5 cr)

This course presents computer networking principles specific to the needs of the software developer. Students learn standard networking terms, protocols, and tools for a general overview of networking from the development perspective. Content will include, but is not limited to, the following: Web Protocols such as FTP, NNTP, HTTP, HTTPS, SSH, POP3, SMTP, and Telnet; Web application and site deployment techniques, remote monitoring and review of web access and error log files, simple debugging of networking problems, and wireless home security and port forwarding. Prerequisite: CIS 130,146 with a passing grade of 2.0 or better or permission of instructor. (SCC)

CIS 154 - Beginning Flash Development (5 cr)

This course introduces students to the methods and techniques used in the development of multimedia materials and presentations using Adobe Flash. Specific emphasis is placed on creating graphic elements as a means of visual communication. Focus is placed on conceptualization and sequencing, analysis of animated graphics, the technology of computer-aided animation, application of visual theory, and organization to principles of animation. Prerequisite: CIS 112 with a passing grade of 2.0 or better or permission of instructor. (SCC)

CIS 201 - IT Essentials - A+ (5 cr)

This course maps to objectives for A+ Certification by introducing basic to advanced concepts in PC hardware, software, and troubleshooting. Basic concepts in networking, security, mobile devices, peripherals, and professionalism are also introduced. (SCC)

CIS 205 - Windows Client OS (5 cr)

Students learn skills to install, configure and upgrade, diagnose and repair systems. Major features of the Windows operating system and its components, troubleshooting techniques and maintaining systems are emphasized. (SCC)

CIS 206 - Introduction to Linux/Unix (5 cr)

This course introduces the LINUX/UNIX operating system. Students learn to configure the latest version and set up the graphical interface with the X Window System. Many tips and techniques for specific uses of LINUX/UNIX, such as installing and configuring applications are presented. (SCC)

CIS 213 - Advanced Linux/Unix (5 cr)

Students with experience in LINUX/UNIX servers use skills to administer LINUX/UNIX systems in a network environment. They maintain LINX/UNIX systems, configure and troubleshoot the Network File System (NFS), and configure a Network Information Service (NIS) environment. Prerequisite: CIS 206, 250. (SCC)

CIS 217 - Mobile Development I (5 cr)

This course presents the standards of creating Mobile Websites with the use of HTML5, CSS3, and jQuery. It will teach how to utilize standard responsive website design to create single websites that can be utilized with a wide variety of mobile devices, tablets, laptops, and desktop computers with varying screen sizes. Prerequisite: CIS 114, 256 and 283 with a passing grade of 2.0 or better or permission of instructor. (SCC)

CIS 218 - Mobile Development II (5 cr)

This course presents the standards of creating Mobile Websites through the use of either Android Operating System Development and the Java Language or iPhone/iPad through the Objective-C language. Prerequisite: CIS 217, 230, 284 with a passing grade of 2.0 or better or permission of the instructor. CIS 258 with a passing grade of 2.0 or better or concurrent enrollment. (SCC)

CIS 219 - Mobile Development III (5 cr)

This course presents advanced concepts of creating Mobile Websites through the use of either Android Operating System Development and the Java Language or iPhone/iPad through the Objective-C language. In addition, the building of mobile application aware websites through standard Application Programming Interfaces (API) will be presented. Prerequisite: CIS 218 with a passing grade of 2.0 or better or permission of the instructor. (SCC)

CIS 221 - Mobile IV-IOS 1 (5 cr)

This course presents the standards of creating Mobile Applications through the use of Advanced Apple iOS Development and the Swift programming language. Prerequisite: CIS 217 or permission of the instructor. (SCC)

CIS 222 - Mobile V-IOS 2 (2 cr)

This course presents the standards of creating Mobile Applications through the use of Apple iOS Development and the Swift programming language. Prerequisite: CIS 221 or permission of the instructor. (SCC)

CIS 230 - PHP Programming (5 cr)

Students learn to create powerful, interactive, database-driven web sites. How PHP scripting language interacts with forms is discussed. Students also learn to generate dynamic pages, and data representation is introduced using MySQL database tables. Prerequisite: CIS 114, 126 with a passing grade of 2.0 or better or permission of instructor. (SCC)

CIS 234 - Network Scripting (3 cr)

Students write scripts utilizing Microsoft Visual Basic Scripting Edition (VBScript), Windows Script Host (WSH) and UNIX/LINUX shell scripting languages to manage Windows and Unix/LINUX based systems. Prerequisite: CIS 206, 244. (SCC)

CIS 236 - Windows Server Administration (5 cr)

This course explores Windows Server Administration and covers topics for Microsoft certification exams. The course focuses on installing and configuring network services in a Windows Server environment. Prerequisite: CIS 244. (SCC)

CIS 239 - Software Project Management (2.5 cr)

Examines project management theory and practices from a managerial perspective. Students define a software project, create project objectives, determine resource requirements and create a project plan and schedule. Students will implement the concepts, tools and skills developed in this course while they successfully complete a software project. Prerequisite: CIS 130, 146, ENGL& 101 with a passing grade of 2.0 or better, or permission of instructor. (SCC)

CIS 244 - Windows Server Installation and Configuration (5 cr)

This course introduces managing, maintaining and troubleshooting devices, users, groups, and resource access in a Windows Server environment. Prerequisite: CIS 201. (SCC)

CIS 247 - Virtualization Technologies (5 cr)

This course is designed to provide students with a working knowledge of leading virtualization technologies. Students will learn how to apply virtualization technology to set up virtual servers and clients, configure virtual networks and device, deploy virtual applications and manage virtual machine resources. Prerequisite: CIS 201. (SCC)

CIS 250 - Cisco I Introduction to Networks (5 cr)

This course introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. Topics include network terminology, media, protocols, equipment, OSI and TCP models, basic router and switch configuration, Ethernet concepts and IP addressing. (SCC)

CIS 251 - Cisco II Routing and Switching Essentials (5 cr)

Students are provided with hands-on experience configuring and troubleshooting routers and switches in a network. Topics include static and dynamic routing protocols, virtual LANS and inter-VLAN routing, and routing in IPv4 and IPv6 networks. Prerequisite: CIS 250 with a passing grade of 2.0 or better, or instructor permission. (SCC)

CIS 252 - Cisco III Scaling Networks (5 cr)

Students learn to configure and troubleshoot routers and switches for advanced functionality. Students learn to resolve common issues with OSPF, EIGRP, and STP in both IPv4 and IPv6 networks, and how to implement a WLAN in a small to medium network. Prerequisite: CIS 250 with passing grade of 2.0 or better or instructor permission. (SCC)

CIS 253 - Cisco IV Connecting Networks (5 cr)

Students learn how to configure and troubleshoot network devices and resolve common issues with data link protocols. Students also develop the knowledge and skills needed to implement IPSec and virtual private network (VPN) operations in a complex network. Prerequisite: CIS 250, 251, 252 with a passing grade of 2.0 or better or instructor permission. (SCC)

CIS 256 - C# (5 cr)

Students use the object-oriented, event-driven .NET platform to learn programming concepts in this course. Students plan and create interactive Windows applications. Students also learn to write selection and repetition statements as well as create and manipulate sequential access files, random access files and arrays. Graphical User Interface (GUI) design skills are emphasized throughout this course. Prerequisite: CIS 146 with a passing grade of 2.0 or better or permission of instructor. (SCC)

CIS 258 - ASP.NET (5 cr)

Students learn to create web-based applications using n-tier architecture to distribute their presentation services, business logic and data services. Students also learn .NET methodologies including state, database driven websites and basic security using C#. Prerequisite: CIS 126, 256 each with a passing grade of 2.0 or better or permission of instructor. (SCC)

CIS 259 - Advanced .NET (5 cr)

This course introduces students to advanced website design topics including AJAX, ADO.Net, website security and web services. Upon completion of this course, students should have a solid foundation in ASP.net essentials to research and design most dynamic websites including informational and e-commerce driven sites. Prerequisite: CIS 114, 258 with a passing grade of 2.0 or better or permission of instructor. (SCC)

CIS 263 - Advanced Windows Server (5 cr)

This course explores Windows Server Administration and covers topics for Microsoft certification exams. The course focuses on advanced topics such as managing, securing, and troubleshooting networking features and services in a Windows Server environment. Prerequisite: CIS 236. (SCC)

CIS 270 - Principles of Network Security (5 cr)

This course is an introduction to network security. Topics covered relate to general network security, common network attacks and how to safeguard against them, authentication methods, e-mail, directory and file transfers. Prerequisite: CIS 251. (SCC)

CIS 271 - Server and Introduction to Wireless Technologies (5 cr)

This course introduces students to advanced-level technical competency of server and introductory wireless issues including planning, installation, configuration, upgrading, maintenance, troubleshooting and disaster recovery. Prerequisite: CIS 205. (SCC)

CIS 272 - Agile Software Development (5 cr)

Students will learn about iterative and incremental development techniques found in agile programming methodologies. Students will have hands on experience working in teams and using tools to do source code versioning, testing, refactoring, and continuous integration. Prerequisite: CIS 258, 284 with a passing grade of 2.0 or better or permission of instructor. (SCC)

CIS 275 - Networking Capstone (5 cr)

This course is a culmination of the network engineering program in which student's research and evaluate emerging technologies and utilize the knowledge gained through the program. Students complete a research paper on technologies currently used in the networking field. Students also set up a network using current and legacy operating systems/hardware. Prerequisite: Permission of instructor only. (SCC)

CIS 276 - Software Development Capstone (5 cr)

Students apply the concepts of structured and object-oriented development to a team project-oriented environment to produce working software. Students choose the appropriate development platform for implementation. Students will work with non-profit organizations, businesses, or college departments in an effort to serve the community. Prerequisite: Permission of instructor. (SCC)

CIS 277 - Database Administration (5 cr)

This course provides a thorough introduction to database administration principles and practices necessary to perform Microsoft SQL Server administration in an enterprise environment and helps in preparing for the Microsoft Certified Solutions Associate Exam 70-462. Prerequisite: CIS 236. (SCC)

CIS 282 - Programming I - Ruby (5 cr)

Students learn programming fundamentals using the RUBY platform. Students implement Ruby with programming concepts using object-oriented terminology. Prerequisite: CIS 146 with a passing grade of 2.0 or better or permission of instructor. (SCC)

CIS 283 - Programming II - Ruby (5 cr)

This course is an extension of CIS 282 and introduces the power of object-oriented programming. Students are challenged to solve problems in an object-oriented fashion. Students learn to extend a class, inheritance and use exceptions, streams and files. Prerequisite: CIS 126, 282 with a passing grade of 2.0 or better or permission of instructor. (SCC)

CIS 284 - Ruby on Rails (5 cr)

Students use the Ruby language and Rails web framework to create scalable and robust web applications. Students learn to develop server-side applications to interface with web pages, making web sites more dynamic and powerful using database driven technologies. Web 2.0 ideas are implemented using AJAX technologies. Prerequisite: CIS 283 with a passing grade of 2.0 or better or permission of instructor. (SCC)

CIS 286 - Cisco Emerging Technologies (5 cr)

Students are introduced to in-demand Cisco Technologies and Certification paths such as CCNA-RS, VoIP, Security, and Wireless Technologies. Topics will vary, and will include a variety of learning materials including hands-on labs and online resources. Prerequisite: CIS 252. (SCC)

CIS 288 - Cooperative Education Work Experience (No Seminar) (1-18 cr)

For course description, see Cooperative Education. (SCC)

CRIMINAL JUSTICE

CJ& 101 - Intro to Criminal Justice (5 cr)

This course is an overview of the scope of the law enforcement officer's role. Jurisdiction of local, state and federal agencies, career opportunities and qualifications for recruitments are emphasized. (SCC)

CJ 102 - Administration of Justice (5 cr)

Students explore the processes of criminal justice in this course. The court system, corrections, juvenile justice and the law officer's role are emphasized. (SCC)

CJ 103 - Police Organization and Administration (3 cr)

Students are introduced to principles, concepts and theories relating to police organization and administration within line and staff functions in the uniform and investigative units. (SCC)

CJ 104 - Crime Scene Diagramming (5 cr)

The course emphasis is on the reconstruction of traffic collision scenes and crime scenes. This course prepares students to accurately diagram collision and crime scenes using standard measuring equipment and computer based hardware and software, to aid investigations and prepare exhibits for court. (SCC)

CJ& 105 - Intro to Corrections (5 cr)

Principles and practices of the corrections field are explored in this course. Objectives of probation and parole with an overview of rehabilitation methods and institutional settings are emphasized. (SCC)

CJ 106 - Introduction to Juvenile Control (3 cr)

This course covers the elements, functions and purpose of juvenile law. Arrest, detention, petition, records, interviewing interrogation, overview of contributing factors to delinquency and the officer's role in prevention are emphasized. (SCC)

CJ 107 - Dynamics of Deviant Behavior (5 cr)

Students identify, compare and analyze common behaviors exhibited by offenders in corrections. (SCC)

CJ 108 - Introduction to Traffic Investigation (3 cr)

Students gain basic skills and knowledge in traffic accident investigation. Practical applications and techniques required to conduct a field investigation are emphasized. Basics of traffic control and traffic laws also are presented. Prerequisite: CJ& 101, 102, 104. (SCC)

CJ 150 - Criminal Justice Report Writing (5 cr)

This course presents technical writing content specific to the criminal justice system. Students learn standard grammar/punctuation and basic composition skills. The content is chosen from a menu that may include, but is not limited to, the following: standard police reports where information may be obtained from investigations, interrogations or other written reports; forms such as traffic citations, traffic accidents or evidence tags; and a variety of technical reports related to law enforcement. (SCC)

CJ 200 - Officer's Survival (5 cr)

Students develop principles and skills of risk management as related to daily patrol situations. Skills include cover vs. concealment, command, contain, control and coordination, as well as communication, background and kill zone tactics. Students' skills are tested in a series of real-to-live police situations (field problems). Prerequisite: CJ 150, 201, 205, 237. (SCC)

CJ 201 - Laws of Arrest, Search and Seizure (5 cr)

Concepts of how to conduct a lawful arrest; search and seizure of suspects and evidence; and practicalities of conducting a search of persons, cars and houses are emphasized in this course. Prerequisite: CJ& 101, CJ 102. (SCC)

CJ 203 - Police Interviewing Techniques (3 cr)

The use of scientific interrogation aids are introduced in this course. Complaints, witnesses, psychological implications, admissions, confessions and statements are explored. (SCC)

CJ 205 - Introduction to Criminal Law (5 cr)

Basic concepts of Title 9 and 9A of the Revised Code of Washington are presented in this course. Elements, purposes and functions of criminal law are emphasized. Prerequisite: CJ& 101, CJ 102. (SCC)

CJ 209 - Human Relations (3 cr)

Students develop objective approaches to human relations problems. Students must demonstrate the ability to exercise skills in personal power and nonjudgmental communication skills. (SCC)

CJ 210 - Police Psychology (3 cr)

Theories of perception, emotion, motivation, personality and nonverbal communication used as tools by police officers in everyday contacts are introduced in this course. Understanding behavior and predicting human behavior in common police situations are emphasized. (SCC)

CJ 211 - Crime Scene Investigations (6 cr)

This comprehensive course covers all aspects of crime scene investigations. Areas of emphasis include fundamentals and techniques of investigations; crime scene search; field applications in the development, collection and preservation of physical evidence. Classification and rules of evidence, admissibility, weight and value of evidence, witnesses, and presentation of evidence in court also are included. Prerequisite: CJ 104, 150, 201, 203, 205. (SCC)

CJ 212 - Professional Development (1 cr)

A variety of self-development activities are provided throughout this course to assist students in gaining employment after graduation. Activities include civil service examinations, both written and oral, and exercises in professional conduct. This course is required in one of the students' last two quarters prior to graduation. Corrections students must take this course in each of their last three quarters of attendance. (SCC)

CJ 215 - Corrections-Security-Practice and Procedure (5 cr)

Students learn to perform necessary security and procedural functions, operate security devices and understand inmate management principles utilized in security settings. (SCC)

CJ 217 - Advanced Report Writing (5 cr)

This course presents advanced technical writing content specific to the criminal justice system. Students review standard grammar, punctuation and compositions skills. The content includes, but not limited to the following: complicated police reports where information may be obtained from investigations, interrogations and collisions and involves a variety of forms and narratives related to law enforcement. The student is also exposed to Automated Field Reporting (AFR) – the use of "in car" computers to electronically complete and submit reports. (SCC)

CJ 225 - Advanced Techniques in Correctional Programming (5 cr)

Students engage in the process of studying, practicing and evaluating correctional program and treatment approaches. (SCC)

CJ 227 - Minority Studies (5 cr)

Students study and participate in discussions of ethnic history, cultural conflicts and legal rights issues, and how they affect the offender. (SCC)

CJ 228 - Ethics - Standards of Conduct (3 cr)

Issues of attitudes, professional responsibility, ethics of professional relationships and personal appearances are incorporated in this seminar format. Interaction with offenders and professionals in the field is included. (SCC)

CJ 230 - Institutional Programming (3 cr)

Students develop program plans, learn prisoners' rights, and supervise and manage inmates. (SCC)

CJ 235 - Firearms Safety (2 cr)

Students explore the handling and use of firearms. The development of skills in safety and proficiency in the basic firing positions is emphasized. This course is not designed for students to develop qualifying proficiency. Prerequisite: Permission of instructor and concurrent enrollment in CJ 236. (SCC)

CJ 236 - Firearms Qualifications (2 cr)

Students develop marksmanship ability in this course. Students passing the firearms course attain the qualifying score on the approved P.P.C. course. Prerequisite: Permission of instructor and concurrent enrollment in CJ 235. (SCC)

CJ 237 - Criminal Justice Self-defense (3 cr)

Students study weaponless defense of police officers emphasizing mental control of suspects, crowd control and proper use of the police baton. Prerequisite: Students must pass one quarter of criminal justice physical training with a 2.0 or higher. (SCC)

CJ 250 - Career Assessment (1-5 cr)

The course emphasis is on gathering and documenting career related training and experience in a portfolio that will be assessed for comparable academic credit. Prerequisite: Basic Computer Skills Recommended. Permission of instructor and evidence of employment required. (SCC)

CJ 266 - Cooperative Education Seminar (1-2 cr)

For course description, see Cooperative Education. (SCC)

CJ 267 - Cooperative Education Work Experience (1-18 cr) For course description, see Cooperative Education. (SCC)

CJ 270 - Introduction to Homeland Security (5 cr)

An introduction to the vocabulary, components and agencies associated with Homeland Security. An examination of historical events, critical threats and state, national, and international laws impacting Homeland Security. Prerequisite: Basic Computer Skills Recommended. Permission of instructor and evidence of employment required. (SCC)

CJ 271 - Intelligence Analysis and Security Management (5 cr)

An exploration of intelligence gathering and analysis outlining basic intelligence policies and functions of the U.S., including dependability and reliability of source information and applying ethical and professional behaviors to intelligence gathering. Prerequisite: Basic Computer Skills Recommended. Permission of instructor and evidence of employment required. (SCC)

CJ 272 - Transportation and Border Security (5 cr)

Identify vulnerabilities and differing security threats for passenger versus freight transportation systems. Explore roles, functions and interdependency between local, federal, international and military agencies regarding border security. Prerequisite: Basic Computer Skills Recommended. Permission of instructor and evidence of employment required. (SCC)

CRIMINAL JUSTICE PHYSICAL EDUCATION

CJPE 132 - Criminal Justice Physical Training (1 cr)

The concept of physical training as a job screen assessment and a lifestyle are explored in this course. Students work toward a fitness level that will allow them to pass any fitness standard based on the National Aerobics Model (Cooper Test) which is also used in Washington State. Five quarters of CJPT are required for graduation. Prerequisite: Students must have medical insurance, a doctor's release if needed and a fitness assessment is required. (SCC)

CJPE 133 - Criminal Justice Physical Training (1 cr)

The concept of physical training as a job screen assessment and a lifestyle are explored in this course. Students work toward a fitness level that will allow them to pass any fitness standard based on the National Aerobics Model (Cooper Test) which is also used in Washington State. Five quarters of CJPT are required for graduation. Prerequisite: Students must have medical insurance, a doctor's release if needed and a fitness assessment is required. (SCC)

CJPE 241 - Criminal Justice Physical Training (1 cr)

The concept of physical training as a job screen assessment and a lifestyle are explored in this course. Students work toward a fitness level that will allow them to pass any fitness standard based on the National Aerobics Model (Cooper Test) which is also used in Washington State. Five quarters of CJPT are required for graduation. Prerequisite: Students must have medical insurance, a doctor's release if needed and a fitness assessment is required. (SCC)

CJPE 242 - Criminal Justice Physical Training (1 cr)

The concept of physical training as a job screen assessment and a lifestyle are explored in this course. Students work toward a fitness level that will allow them to pass any fitness standard based on the National Aerobics Model (Cooper Test) which is also used in Washington State. Five quarters of CJPT are required for graduation. Prerequisite: Students must have medical insurance, a doctor's release if needed and a fitness assessment is required. (SCC)

CJPE 243 - Criminal Justice Physical Training (1 cr)

The concept of physical training as a job screen assessment and a lifestyle are explored in this course. Students work toward a fitness level that will allow them to pass any fitness standard based on the National Aerobics Model (Cooper Test) which is also used in Washington State. Five quarters of CJPT are required for graduation. Prerequisite: Students must have medical insurance, a doctor's release if needed and a fitness assessment is required. (SCC)

COMMUNICATION STUDIES

CMST& 101 - Introduction to Communication (5 cr)

This course surveys the field of communication. It teaches students the theories and skills associated with effective interpersonal, small group, and public communication. Emphasis is on in-class activities and on improving the student's confidence in a variety of communication settings. Students receive at least 11 (eleven) hours of instruction in topical research, speech organization and support, and writing expository and persuasive prose for the purpose of oral delivery in an academic setting. (SCC, SFCC)

CMST 103 - Effective Listening (3 cr)

Most people assume they are effective listeners; however, according to listening expert Dr. Ralph Nichols, college students test at about 25 percent accuracy in their listening skills. This course is designed to help students assess their listening and learning styles and to develop those skills necessary for success in college and in the job market. (SCC)

CMST 111 - Voice and Articulation I (4 cr)

Students learn to speak and interact in small group settings. Class discussions on a variety of cultural, social and technical topics, and one-on-one assistance in pronunciation/articulation are emphasized. Presentational skills also are included. Prerequisite: Permission of instructor. (SCC)

CMST 112 - Voice and Articulation II (4 cr)

ESL students continue the concepts learned in CMST 111 by speaking and interacting in small group settings. Class discussions on a variety of cultural, social and technical topics, and one-on-one assistance in pronunciation/articulation with a speech clinician are emphasized. Presentational skills also are included. Prerequisite: CMST 111 or permission of instructor. (SCC)

CMST 113 - Voice and Articulation III (4 cr)

ESL students continue the concepts learned in CMST 111 by speaking and interacting in small group settings. Class discussions on a variety of cultural, social and technical topics, and one-on-one assistance in pronunciation/articulation with a speech clinician are emphasized. Presentational skills also are included. Prerequisite: CMST 112 or permission of instructor. (SCC)

CMST 114 - Oral Interpretation of Literature (5 cr)

Students in this course develop and implement the fundamental techniques of analysis of literature. Students also will develop and demonstrate their skills in presenting readings from works of prose, poetry and drama. (SFCC)

CMST 120 - Practical Communication for Technicians (3-5 cr)

This course will assist vocational/technical students in improving their listening skills, understanding the importance of a positive attitude and motivation, and increasing basic verbal and non-verbal communication skills. Recommended for first or second quarter students. (SCC)

CMST 121 - Job Communication Skills (2-5 cr)

This course is designed to meet the needs of specific professional/technical students with emphasis on attitudes, work ethics, resumes and job interviewing skills. (SCC, SFCC)

CMST 127 - Leadership Development (3-5 cr)

Emphasizes integrity and professionalism in the workplace, team-building problem-solving, presentational skills, and selling techniques for success on the job. Variable credits. (SCC)

CMST& 210 - Interpersonal Communication (5 cr)

This course provides an opportunity to learn and apply the theory of interpersonal communication. Learning experiences include work with personal growth, verbal and nonverbal communication skills, active listening, stress management, and resolving communication conflicts to develop healthy personal relationships. (SCC, SFCC)

CMST& 220 - Public Speaking (5 cr)

This course teaches students fundamental principles of researching, writing and delivering an effective public address. Students learn audience adaptation and receive at least 11 hours of instruction in the development and composition of formal preparation outlines for expository, persuasive and motivational speeches. Students study and practice a variety of rhetorical techniques suitable for crafting clear, memorable and persuasive prose. They gain confidence as speakers through the study and practice of a wide variety of proven delivery techniques and styles. (SCC, SFCC)

CMST 223 - Intercollegiate Speech and Debate (1-5 cr)

Students prepare for and participate in competitive intercollegiate speech and/or debate. Activities include preparing for debates, presentational speeches, oral interpretation of literature and extemporaneous speaking. May be repeated up to 15 credits. (SFCC)

CMST 224 - Intercollegiate Speech and Debate (1-5 cr)

Students prepare for and participate in competitive intercollegiate speech and/or debate. Activities include preparing for debates, presentational speeches, oral interpretation of literature and extemporaneous speaking. May be repeated up to 15 credits. (SFCC)

CMST 225 - Intercollegiate Speech and Debate (1-5 cr)

Students prepare for and participate in competitive intercollegiate speech and/or debate. Activities include preparing for debates, presentational speeches, oral interpretation of literature and extemporaneous speaking. May be repeated up to 15 credits. (SFCC)

CMST 226 - Gender Communication (5 cr)

This course provides the opportunity to learn and apply theories of gender communication. Learning experiences include work with both verbal and nonverbal communications as they apply to perception, stereotyping, brain and other biological differences, gender and socialization, processing information, differences in communication style, gender communication in friendships, and gender communication in the workplace. (SCC, SFCC)

CMST 227 - Intercultural Communication (5 cr)

This course is a culture-general approach to intercultural communication. Emphasis is on experiential learning in order to understand and improve intercultural communication at both the domestic and international levels. Students have the opportunity to improve verbal and nonverbal communication skills with different cultures in the community, and to focus on international communication needs. (SCC, SFCC)

CMST 229 - Argumentation and Debate (5 cr)

Argumentation & Debate teaches students the theory and practices associated with analyzing, constructing, and delivering arguments -- in writing and orally -- on topics of controversy. Students develop skills in case construction, using evidence in support of argument, responding to arguments and questions, and effective delivery of arguments to critical audiences. (SCC, SFCC)

CMST& 230 - Small Group Communication (5 cr)

Practical application of problem-solving skills, discussion techniques, task and social roles including leadership are explored. Focus will be on communication behavior in small task-oriented groups. (SCC, SFCC)

CMST 250 - Managing Conflict Through Communication (5 cr)

Understanding conflict is a critical step in the process of managing it. This course emphasizes both theory and practical application to help students manage conflict by utilizing communication skills. (SCC)

CMST 280 - Public Relations (5 cr)

An introduction to the basic principles of public relations. Areas of interest will include research, ethics and theory, media, and campaign strategy. Prerequisite: College level reading and writing skills. CMST& 101. (SCC)

CMST 287 - Business and Professional Communication (3-5 cr)

This course is designed to focus on how interaction skills affect the individual's and the organization's success. Students learn to maintain employment and to benefit the organization through effective communication skills with managers, co-workers and customers. Some topics covered include organizational communication theory and history, culture, working in teams, presenting at work, conflict management and listening skills. Prerequisite: Second-year student or permission of instructor. (SCC)

CMST 294 - Special Topics in Speech Communication (3-5 cr)

A communication course with content and scope varying from quarter to quarter according to designation and credits filed in advance of each quarter. (SCC, SFCC)

CMST 320 - Professional Communication (5 cr)

This course examines and applies communication theory, principles, and skills in career development and management. Professional Communication covers visual presentation skills, interviewing, listening, portfolio building, and employment and promotion negotiation. Emphasis will be placed on the effective application of these skills to communicate both orally and visually for a range of professional positions. Prerequisite: Acceptance into the BAS programs or permission of the instructor. (SFCC)

CMST 430 - Organizational Communication (5 cr)

This course is the study of communication and its practice, effects and improvement in collective organizations; the role of communication in organizational assessment and change; the relationship between communication and leadership practices and organizational effectiveness, and the discursive nature of personal and corporate image and credibility. Prerequisite: Acceptance into the BAS programs or permission of the instructor. (SFCC)

COOPERATIVE EDUCATION

COOP 266 - Cooperative Education Seminar (1-2 cr)

Students study areas such as self-awareness and assessment, career awareness and exploration, career decision making, career planning and placement, success factors and attitudes on the job, motivation and initiative, human behavior and relations, and employability skills. A maximum of six credits are allowed toward any degree. Prerequisite: Permission of instructor/coordinator. (SCC, SFCC)

COOP 267 - Cooperative Education Work Experience (1-18 cr)

This course offers coordinated on-the-job, supervised work experience related to the student's field of study. Students may receive variable credits for hours of structured work experience during a quarter. The credit award is based on a maximum of one credit for every three weekly cooperative education hours during a quarter. See specific program requirements for number of credits allowed. Prerequisite: Permission of instructor/coordinator. (SCC, SFCC)

COOP 288 - Cooperative Education Work Experience (No Seminar) (1-18 cr)

This course offers coordinated on-the-job, supervised work experience related to the student's field of study. Students may receive variable credits for hours of structured work experience during a quarter. The credit award is based on a maximum of one credit for every five weekly cooperative education hours during a quarter. See specific program requirements for number of credits allowed. This course differs from COOP 267 in that it has no seminar requirement. Prerequisite: Permission of instructor/coordinator. (SCC, SFCC)

COSMETOLOGY

COS 101 - Introduction to Cosmetology (2 cr)

This course provides introductory concepts in cosmetology. Students learn licensing requirements and state laws, the importance of rest and relaxation, effective communication, and human relationship skills. (SCC)

COS 111 - Cosmetology, Esthetics and Manicuring Concepts I (5 cr)

Students are introduced to the basic concepts of cosmetology. Theories introduced include manicuring, pedicuring, haircutting, permanent waving, hair styling, coloring, shampooing, rinsing, draping and thermal styling. Bacteriology, sterilization and sanitation also are presented. Prerequisite: Concurrent enrollment in APLED 121, COS 112 or permission of department. (SCC)

COS 112 - Cosmetology, Esthetics and Manicuring Applications I (12 cr)

Students are introduced to the basic application techniques and clinical practice on models and mannequins in the areas of thermal styling, hair shaping and styling, shampooing, rinsing and conditioning, permanent waving, manicuring and pedicuring. Safety and sanitary measures are emphasized. No more than 25 percent of the services are performed on mannequins. Prerequisite: Concurrent enrollment in APLED 121, COS 111 or permission of department. (SCC)

COS 113 - Manicuring Concepts I (4 cr)

Students are introduced to the basic concepts of manicuring. Theories presented include the proper use of implements, cosmetics and materials used in manicures, pedicures, and artificial nail applications. Principles of bacteriology and sanitation methods are emphasized. (SCC)

COS 114 - Manicuring Applications I (10 cr)

Students learn basic application techniques and clinical practice on models and mannequins in the following areas: Manicuring, pedicuring, nail preparation, acrylic sculpture, tip application, overlays and nail removal. Sanitation methods utilized in a salon setting are emphasized. No more than 25 percent of all services are performed on models. (SCC)

COS 115 - Manicuring Concepts II (4 cr)

This course continues with the concepts of manicuring introduced in COS 113. Nail structure, nail diseases and disorders, bacteriology, and sanitation methods are emphasized. (SCC)

COS 116 - Manicuring Applications II (10 cr)

Students learn advanced application techniques and clinical practice on models and mannequins in the following areas: Manicuring, pedicuring, nail preparation, acrylic sculpture, tip application, various nail overlays and nail removal. Safety and sanitary methods are emphasized. No more than 25 percent of all services are performed on models. Prerequisite: COS 113, 114. (SCC)

COS 119 - Advanced Manicuring Concepts (1 cr)

This course continues the concepts introduced in COS 115 with an emphasis on the safe use of drills, advanced artificial nail applications, nail art and nail enhancements. Prerequisite: COS 113, 115. (SCC)

COS 121 - Cosmetology, Esthetics and Manicuring Concepts II (5 cr)

Students are introduced to the basic concepts of skin and nail care, and their disorders and diseases. Chemistry for esthetics, electricity and light therapy also are introduced. Bacteriology, decontamination and infection control are emphasized. Prerequisite: COS 111, 112 and concurrent enrollment in CIS 105, COS 122, EMS 120 or permission of department. (SCC)

COS 122 - Cosmetology, Esthetics and Manicuring Applications II (11 cr)

Students are introduced to the basic application techniques and clinical practice on patrons for facials, packs, masks, machine facials, massage, temporary superfluous hair removal, eyebrow arching, lash and brow tintings, and artificial lashes. No more than 25 percent of the services are performed on mannequins. Prerequisite: COS 111, 112 and concurrent enrollment in CIS 105, COS 121, EMS 120 or permission of department. (SCC)

COS 123 - Esthetics Concepts I (4 cr)

This course introduces students to the basic concepts of skin care, skin disorders and diseases of the skin. Chemistry for esthetics, bacteriology, sanitation and sterilization, and electricity and light therapy are emphasized. (SCC)

COS 124 - Esthetics Applications I (10 cr)

Students learn basic application techniques and obtain clinical practice on clients in facials, packs, masks, machine facials, massage, temporary superfluous hair removal, eyebrow arching, lash and brow tinting and artificial eyelashes. No more than 25 percent of all services are performed on models. (SCC)

COS 125 - Esthetics Concepts II (4 cr)

This course introduces students to advanced concepts of skin care, skin structure, color theory, makeup techniques and facials with the aid of machines. (SCC)

COS 126 - Esthetics Applications II (10 cr)

This course introduces students to intermediate application techniques and clinical practice on clients in facials, packs, masks, machine facials, massage techniques, temporary superfluous hair removal, eyebrow arching, lash and brow tinting, artificial eyelash application, make-up application and skin analysis. No more than 25 percent of the services are performed on mannequins. Prerequisite: COS 123, 124. (SCC)

COS 127 - Advanced Esthetics Concepts (1 cr)

This course provides students with advanced concepts required for success in a cosmetology setting. Advanced topics include body treatments and tinting of facial and body hair. Prerequisite: COS 123, 124. (SCC)

COS 129 - Advanced Manicuring Applications (2 cr)

Students are introduced to the advanced concepts of manicuring. Theories presented include the proper use of implements, cosmetics and materials used in manicures, pedicures, nail art and the application of artificial nails. Principles of bacteriology and sanitation methods are emphasized. Prerequisite: COS 113. (SCC)

COS 131 - Intermediate Cosmetology I (5 cr)

This comprehensive course introduces intermediate concepts of hair and scalp structures, disorders, and diseases. Haircutting, permanent waving, hair coloring and curl reformation are emphasized. Prerequisite: COS 121, 122 and concurrent enrollment in COS 132 or permission of department. (SCC)

COS 132 - Intermediate Cosmetology Applications I (11 cr)

Students are introduced to intermediate application and clinical practice in all aspects of cosmetology with emphasis on permanent waving, hair coloring and cutting techniques, and curl reformation. No more than 25 percent of the services are performed on mannequins. Prerequisite: COS 121, 122 and concurrent enrollment in COS 131 or permission of department. (SCC)

COS 135 - Esthetics Concepts III (4 cr)

This advanced course is a continuation of skin care, skin structure, color theory, makeup techniques and facials previously introduced. Prerequisite: COS 123, 125. (SCC)

COS 136 - Esthetics Applications III (5 cr)

This advanced course continues concepts introduced in previous courses to application techniques and clinical practice on clients in facials, packs, masks, machine facials, massage techniques, temporary superfluous hair removal, eyebrow arching, lash and brow tinting, artificial eyelash application, make-up application and skin analysis. No more than 25 percent of the services are performed on mannequins. Prerequisite: COS 123, 124, 125. (SCC)

COS 227 - Advanced Esthetics Applications (2 cr)

This course provides students with advanced practice required for success in a cosmetology setting. Students gain practice in advanced topics including body treatments and tinting of facial and body hair. Since this is an advanced application course, students are expected to complete the assigned projects in a given time with pre-established accuracy rates. Prerequisite: COS 123, 124, 125, 126, 127. (SCC)

COS 241 - Intermediate Cosmetology II (5 cr)

This comprehensive course introduces intermediate concepts of hair styling, permanent waving chemistry, and the care and styling of artificial hair. An in-depth review of skin disorders, as well as hair and scalp disorders, is discussed. Prerequisite: COS 131, 132 and concurrent enrollment in APLED 112, COS 242 or permission of department. (SCC)

COS 242 - Intermediate Cosmetology Applications II (10 cr)

Students are introduced to permanent waving chemistry, intermediate concepts of hair styling, and the care and styling of artificial hair. An in-depth review of skin, hair and scalp disorders is presented. No more than 25 percent of the services are performed on mannequins. Prerequisite: COS 131, 132 and concurrent enrollment in APLED 112, COS 241 or permission of department. (SCC)

COS 251 - Advanced Cosmetology I (5 cr)

This course presents advanced concepts of hair color chemistry and a comprehensive review of haircutting, styling and skin disorders in preparation for the state board exam. Prerequisite: COS 241, 242 and concurrent enrollment in APLED 125, COS 252 or permission of department. (SCC)

COS 252 - Advanced Cosmetology Applications I (10 cr)

This course introduces advanced applications and clinical practice in all aspects of cosmetology with emphasis on permanent waving, haircutting, coloring and styling. No more than 25 percent the services are performed on mannequins. Prerequisite: COS 241, 242 and concurrent enrollment in APLED 125, COS 251 or permission of department. (SCC)

COS 261 - Advanced Cosmetology II (5 cr)

This comprehensive course prepares students for the state board examination with a complete review of textbooks. Hair chemistry and properties, electricity, nail structures and disorders are emphasized. Prerequisite: COS 251, 252 and concurrent enrollment in COS 262, MMGT 205 or permission of department. (SCC)

COS 262 - Advanced Cosmetology Applications II (7-10 cr)

This course introduces advanced applications and clinical practice in all phases of manicuring and cosmetology. Hair styling, haircutting and chemical applications are emphasized. No more than 25 percent of the services are performed on mannequins. Prerequisite: COS 251, 252 and concurrent enrollment in COS 261, MMGT 205 or permission of department. (SCC)

COS 288 - Cooperative Education Work Experience (No Seminar) (1-18 cr)

For course description, see Cooperative Education. (SCC)

COMPUTING-COMPUTER SCIENCE

CS 101 - Computer Literacy (5 cr)

This is an introductory course in computer technology, concepts, operations and applications. Computer terminology is emphasized. It examines the complete system, including hardware, software, data, people and procedures. Students have extensive laboratory exercises in computer operating systems such as exposure to UNIX, DOS and Macintosh; various word processors, spreadsheets, databases and graphics. An exposure to the programming process is provided. Internet and general networking principles are included. Meets the Computer Literacy Requirement for Eastern Washington University and is considered a generally transferable course by the Intercollege Relations Commission (ICRC). (SFCC)

CS 121 - UNIX/Linux (3 cr)

This course is designed for students with some prior computing experience, especially with some operating system experience. The UNIX/Linux operating system will be installed and explored. Students learn how to navigate and administer Linux / Unix from both the command line and through a graphical user interface. Additional topics include software installation, using Linux applications, security and servers. Recommended knowledge of another operating system: DOS, VMS, etc. (SFCC)

CS& 141 - Computer Science I Java (5 cr)

This course is an introduction to the concepts and practices of information representation, computer algorithms, hardware fundamentals, and computer program design and implementation. This course allows students to write, compile, debug, run, analyze and evaluate computer programs written in a current object-oriented language. Prerequisite: MATH& 141 (can be concurrent) or permission of instructor. (SFCC)

CS 142 - Introduction to Computer Science II (5 cr)

This course continues where Introduction to Computer Science I left off, introducing the student to concepts and practices of information representation, computer algorithms, hardware fundamentals, and computer program design and implementation. This course introduces data structures and algorithms basic to the study of computer science, and object-oriented design and implementation. Prerequisite: CS& 141 or permission of instructor. (SFCC)

CS 211 - C for Programmers (5 cr)

This course is designed to cover the syntax of the "C" programming language in the context of structured programming and with the Linux Operating System. It is intended for students with prior experience in computer programming. This course allows students to apply the "C" language and structured programming concepts to a series of programming problems concerning Makefiles, Graphics API's, System API's, Libraries, and Optimization Tools. Prerequisite: CS& 141 or permission of instructor. (SFCC)

CS 223 - Programming for IT (5 cr)

This course focuses on fundamental principles of programming and scripting, and presenting unique visual and object-oriented features. The course allows students to become proficient in scripting and programming, and the principles of good program design. Students write and demonstrate simple structured programs, but with well-developed user interfaces. Programming assignments include procedural techniques and event-driven processing. Prerequisite: IS 144, 210. (SFCC)

CS 253 - Object-Oriented Programming with C++ (5 cr)

This course is designed to cover the main topics of the "C++" programming language and object-oriented programming. It is intended for students with prior experience in computer programming, in general, and the "C" language in particular. This course allows students to apply the "C++" language and object-oriented concepts to a series of programming problems. Prerequisite: CS 142 and CS 211 or permission of instructor. (SFCC)

CS 255 - C for Engineers (5 cr)

This course introduces structured computer programming and problem solving, specifically for pre-engineering students, using the C language. Problem examples emphasize numerical solutions common to engineering. Emphasis is placed on programming principles, programming techniques and the process of solving problems using computers. Prerequisite: MATH& 141 (Can be concurrent). (SFCC)

CS 280 - Data Structures (5 cr)

This course explores data types, abstract data types, and data structures. Efficiency of algorithms is discussed extensively. Sequential and linked lists will be implemented. Students will be able to create, represent, and traverse binary trees. Searching is extensively covered, including dictionaries, priority queues, and hashing. Directed graphs and depth-first algorithms will be introduced. Additional topics include: garbage collection, dynamic storage allocation and sorting. Prerequisite: CS 142. (SFCC)

CULINARY ARTS

CUL 110 - Introduction to Culinary Arts (5 cr)

Students learn basic cooking principles including modern kitchen organization, standards of professionalism, and the tools and equipment used in the cooking process. (SCC)

CUL 115 - Food Sanitation (3 cr)

Students are introduced to basic food service sanitation principles with emphasis on cleaning/sanitation methods and the safe storage of food. (SCC)

CUL 123 - Espresso (1-2 cr)

This course introduces students to the techniques and procedures required to successfully operate an espresso stand. (SCC)

CUL 124 - Cooking Applications I (10 cr)

This course continues with the concepts introduced in CUL 110. Students work with raw materials, preliminary cooking and flavoring, and apply a variety of cooking methods including the preparation of stocks, soups, salads, and vegetable and starch products. Prerequisite: Permission of instructor or counselor. (SCC)

CUL 126 - Food Science (5 cr)

This course emphasizes basic cooking methods including the preparation of soups, stocks and sauces; meat, fish and poultry; vegetables, fruits and starches; as well as an introduction to breakfast and baking preparation. Prerequisite: Permission of instructor or counselor. (SCC)

CUL 127 - Banquet Service (2 cr)

Students study theory and learn practical applications in the organization and management of banquets. (SCC)

CUL 131 - A la Carte Service (9 cr)

This course introduces practical applications in the methods used to provide exceptional a la carte services in a variety of settings. Prerequisite: Concurrent enrollment in HM 130. (SCC)

CUL 243 - Theory of Restaurant Baking (5 cr)

Students are introduced to the basic principles of restaurant baking with emphasis on ingredients, yeast dough formulas and techniques, and the mixing and baking of a variety of breads, pies and pastries. (SCC)

CUL 244 - Restaurant Baking Applications (10 cr)

Students are introduced to the preparation of baked goods, desserts and pastries, and the acquisition of baking skills and artistic abilities. Production techniques also are addressed. (SCC)

CUL 253 - Advanced Cooking Theory (5 cr)

Students are introduced to the composition and structure of meats with emphasis on the identification of primal cuts and their relationship to meat selection and cooking methods. Fundamentals of sauce making also is addressed. (SCC)

CUL 254 - A la Carte Cooking I (10 cr)

Students use the skills acquired in CUL 124 and develop more technical skills necessary to cook foods to exceptional levels on a consistent basis while working in a professional kitchen. (SCC)

CUL 255 - Menu Planning (3 cr)

Students are introduced to the composition of menus including the areas of purchasing procedures, merchandising, servicing and pricing of foods. Planning a functional, operative menu using appropriate menu copy and layout is emphasized. Prerequisite: APLED 121. (SCC)

CUL 260 - Presidential (1 cr)

Methods used to provide formal service in a variety of elegant settings are addressed in this course. (SCC)

CUL 263 - Theory of Modern Cuisine (5 cr)

Students are introduced to the cooking principles commonly utilized in the preparation of ethnic and international cuisines. (SCC)

CUL 264 - A la Carte Cooking II (9 cr)

This course continues the concepts introduced in CUL 254 and emphasizes the selection of appropriate cooking methods and the handling, cutting and cooking of a variety of meats and fish products. (SCC)

CUL 265 - Hospitality Cost Controls (5 cr)

Students are introduced to the principles and procedures involved in an effective system of food, labor and sales income control. The development and use of standards, and the calculation of actual costs are emphasized. Prerequisite: Successful completion of first year culinary coursework. (SCC)

CUL 288 - Cooperative Education Work Experience (No Seminar) (1-18 cr)

For course description, see Cooperative Education. (SCC)

DENTAL ASSISTING

DENT 111 - Introduction to Dental Assisting (5 cr)

This course is an introduction to the techniques of chairside assisting using principles of four-handed dentistry, instrumentation, maintenance of equipment and administration of local anesthetic. Prerequisite: Concurrent enrollment in DENT 112, 116. (SCC)

DENT 112 - Chairside Related Theory (4 cr)

This course is an introduction to the role of the dental assistant as a member of the dental health team. Techniques and principles of preventive dentistry and microbiology as they relate to aseptic techniques in the dental office are emphasized. Infection control, safety standards and hazardous waste management are addressed. Prerequisite: Concurrent enrollment in DENT 111, 116. (SCC)

DENT 114 - Introduction to Dental Radiology (3 cr)

This course offers instruction in the basic principles of radiography physics, modern intraoral dental radiographic techniques, arrangements and care of darkroom equipment, composition and preparation of solutions, procedure for processing films, mounting films, mannequin practice in exposing films, patient interproximal X-rays for diagnostic purposes, radiation protection and safety guidelines. Prerequisite: Concurrent enrollment in DENT 111, 112, 116. (SCC)

DENT 116 - Dental Restorative Techniques (3 cr)

This course offers instruction in the physical properties, manipulation and uses of dental materials commonly used in restorative dental procedures. Maintenance of equipment used in the laboratory is emphasized. Prerequisite: Enrolled in first quarter of the dental assisting program. (SCC)

DENT 118 - Dental Anatomy (4 cr)

Students learn interrelationships of body structure and functions of all body systems, head and neck anatomy, oral embryology, histology, tooth morphology and dental charting. (SCC)

DENT 121 - Intermediate Chairside Assisting (6 cr)

This course continues with the concepts learned in DENT 111 emphasizing the procedures and instruments of the recognized specialties. Prerequisite: Successful completion of first quarter and concurrent enrollment in DENT 122. (SCC)

DENT 122 - Chairside Related Theory (4 cr)

This course offers instruction in nutrition and dietary counseling as part of dental treatments, applied pharmacology, dental pathology and emergencies in a dental office. Prerequisite: Successful completion of first quarter and concurrent enrollment in DENT 121. (SCC)

DENT 124 - Advanced Dental Radiology (2 cr)

This course offers instruction in advanced techniques of dental radiology, anatomical landmarks and dental anatomy pertaining to dental radiology. Practice taking full-mouth radiographs on children and adults for diagnosis by a dentist and evaluation of films are emphasized. Instruction in maintenance of automatic processors, duplicating, panoramic techniques and equipment also is offered. Prerequisite: Successful completion of first quarter and concurrent enrollment in DENT 121, 122. (SCC)

DENT 126 - Dental Restorative Techniques (4 cr)

This course offers instruction in the physical properties and manipulation of dental materials used in diagnostic and prosthetic procedures. Appropriate instrumentation also is included. Prerequisite: Successful completion of first quarter and concurrent enrollment in DENT 121, 122. (SCC)

DENT 129 - Chairside Clinical Experience (2 cr)

Students acquire clinical practice in handling patients and assisting in four-handed dentistry procedures. The clinical instruction is conducted in selected private dental offices. Clinical assignments are designed to enhance students' competence in performing dental assisting functions. General dentistry is emphasized. Seminars are devoted to evaluation of the clinical experience, discussion of communication in the dental practice and attitude of the dental assisting student. Prerequisite: Successful completion of second quarter with 2.0 GPA or better and satisfactory progress in DENT 121, 122, 124, 126. (SCC)

DENT 131 - Advanced Chairside Assisting (6 cr)

This course offers instruction and practical application of procedures permitted the dental assistant in the State of Washington according to the current State Dental Practice Act. Prerequisite: Successful completion of second quarter. (SCC)

DENT 136 - Dental Restorative Techniques (2 cr)

This course offers advanced instruction in the physical properties and manipulation of dental materials involved in prosthetic procedures. Prerequisite: Successful completion of second quarter and concurrent enrollment in DENT 131. (SCC)

DENT 138 - Office Management (3 cr)

Students learn the nonclinical functions that dental auxiliaries are required to perform emphasizing communications, scheduling, appointments, making financial arrangements, collection techniques, recalls, completion of insurance forms, maintaining an inventory and supply system, and familiarization with computer programs used in dentistry. Prerequisite: Successful completion of second quarter and concurrent enrollment in DENT 131. (SCC)

DENT 139 - Chairside Clinical Experience (8 cr)

Students acquire clinical practice to perfect their competence in performing dental assisting functions that take place under the direct supervision of dentists in private practices, specialties and dental clinics. The major portion of students' time is spent actually assisting or actively participating in patient care. Seminars are held to evaluate and review clinical applications. Prerequisite: Successful completion of second quarter with 2.0 grade or better and satisfactory progress in DENT 131, 136, 138. (SCC)

DENT 141 - EFDA Review Class (5 cr)

This course is designed to provide the Certified Dental Assistant (CDA) review for the Expanded Function Dental Auxiliary (EFDA) course content. The course includes the evaluation of the student's ability to perform skills under the dentist's general supervision to include: Patient oral health instruction; coronal polishing; fluoride treatments; sealants; expose, process and mount dental radiographs. Prerequisite: Successful completion of the Dental Assistant program with a 2.0 grade or better. Admission to the program and concurrent enrollment in DENT 142, 144, 145, 148. (SCC)

DENT 142 - EFDA Review Lab (2 cr)

This course is designed to provide the Certified Dental Assistant (CDA) review for the Expanded Function Dental Auxiliary (EFDA) course content. The course includes correct ergonomic positioning and skills on typodonts and/or simulated patients. Prerequisite: DENT 141, 142. Admission to the program and concurrent enrollment in DENT 141, 144, 145, 148. (SCC)

DENT 144 - EFDA Amalgam Restorations (2 cr)

This course is designed to focus on the didactic, laboratory and clinical components of the amalgam curriculum to include: Armamentarium including various matrices, classification of restorations; components of the prepared tooth; materials, composition of amalgam, advantages and disadvantages, indications and contraindications; placement, condensing and carving; evaluation of restoration; occlusal adjustment. Prerequisite: DENT 141, 142. Admission to the program and concurrent enrollment in DENT 141, 142, 145, 148. (SCC)

DENT 145 - EFDA Amalgam Lab (4 cr)

This course is designed to focus on the didactic, laboratory and clinical components of the amalgam curriculum to include: Armamentarium including various matrices, classification of restorations; components of the prepared tooth; materials, composition of amalgam, advantages and disadvantages, indications and contraindications; placement, condensing and carving; evaluation of restoration; occlusal adjustment. This course includes the lab portion of amalgam restoration. Prerequisite: DENT 141, 142. Admission to the program and concurrent enrollment in DENT 141, 142, 144, 148. (SCC)

DENT 148 - EFDA Amalgam Clinical (3 cr)

This course is designed to focus on the didactic, laboratory and clinical components of the amalgam curriculum to include: Armamentarium including various matrices, classification of restorations; components of the prepared tooth; materials, composition of amalgam, advantages and disadvantages, indications and contraindications; placement, condensing and carving; evaluation of restoration; occlusal adjustment. This course includes the clinical portion of amalgam restoration. Prerequisite: DENT 141, 142. Admission to the program and concurrent enrollment in DENT 141, 142, 144, 145. (SCC)

DENT 151 - EFDA Composite Restorations (3 cr)

This course is designed to focus on the didactic, laboratory and clinical components of the amalgam curriculum to include: Armamentarium including various matrices, classification of restorations; components of the prepared tooth; materials, composition of composite, advantages and disadvantages, indications and contraindications; placement, condensing and carving; evaluation of restoration; occlusal adjustment. Prerequisite: DENT 141, 142. Admission to the program and concurrent enrollment in DENT 152, 154, 155, 158, 160. (SCC)

DENT 152 - EFDA Composite Lab (4 cr)

This course is designed to focus on the didactic, laboratory and clinical components of the amalgam curriculum to include: Armamentarium including various matrices, classification of restorations; components of the prepared tooth; materials, composition of composite, advantages and disadvantages, indications and contraindications; placement, condensing and carving; evaluation of restoration; occlusal adjustment. This course includes the laboratory portion of the course. Prerequisite: DENT 141, 142. Admission to the program and concurrent enrollment in DENT 151, 154, 155, 158, 160. (SCC)

DENT 154 - EFDA Composite Clinical (3 cr)

This course is designed to focus on the didactic, laboratory and clinical components of the amalgam curriculum to include: Armamentarium including various matrices, classification of restorations; components of the prepared tooth; materials, composition of composite, advantages and disadvantages, indications and contraindications; placement, condensing and carving; evaluation of restoration; occlusal adjustment. This course includes the clinical portion of the course. Prerequisite: DENT 141, 142. Admission to the program and concurrent enrollment DENT 151, 152, 155, 158, 160. (SCC)

DENT 155 - EFDA Impressions/Provisional (3 cr)

This course is designed to focus on the didactic, laboratory components of the taking preliminary and final impressions and bite registrations to include computer assisted design and computer assisted manufacture applications. Prerequisite: DENT 141, 142. Admission to the program and concurrent enrollment in DENT 151, 152, 154, 158, 160. (SCC)

DENT 158 - EFDA Impressions/Provisional-Lab (2 cr)

This course is designed to focus on the didactic, laboratory components of the taking preliminary and final impressions and bite registrations to include computer assisted design and computer assisted manufacture applications. This course includes the laboratory portion of the course. Prerequisite: DENT 141, 142. Admission to the program and concurrent enrollment in DENT 151, 152, 154, 155, 158, 160. (SCC)

DENT 160 - EFDA Exam Preparation (3 cr)

This course is designed to focus on the didactic, laboratory components of the taking preliminary and final impressions and bite registrations to include computer assisted design and computer assisted manufacture applications. This course includes the examination portion of the course. Prerequisite: DENT 141, 142. Admission to the program and concurrent enrollment in DENT 151, 152, 154, 155, 158. (SCC)

DRAMA

DRMA& 101 - Intro to Theatre (5 cr)

Dramatic forms and styles, historic developments of the theater and contemporary theater practices. (SCC, SFCC)

DRMA 106 - Rehearsal and Performance (1-5 cr)

This is a course in which students receive training and practical experience in acting, directing or technical theater. Each quarter's production provides the necessary laboratory experience. Recommended for those desiring an overall acquaintance with various phases of theatrical production. Prerequisite: Permission of instructor. (SCC, SFCC)

DRMA 107 - Rehearsal and Performance (1-5 cr)

This is a course in which students receive training and practical experience in acting, directing or technical theater. Each quarter's production provides the necessary laboratory experience. Recommended for those desiring an overall acquaintance with various phases of theatrical production. Prerequisite: Permission of instructor. (SCC, SFCC)

DRMA 108 - Rehearsal and Performance (1-5 cr)

This is a course in which students receive training and practical experience in acting, directing or technical theater. Each quarter's production provides the necessary laboratory experience. Recommended for those desiring an overall acquaintance with various phases of theatrical production. Prerequisite: Permission of instructor. (SCC, SFCC)

DRMA 120 - Performance and Audition Techniques (3 cr)

Familiarization with the stage and technique in movement, development of technique and character through pantomimic suggestion, and study of the script from the actor's point of view. (SFCC)

DRMA 121 - Contemporary Acting (3 cr)

Definition of character and exercises in character portrayal, definition of mood or emotion and exercises in portrayal of attitude, and performance of characterization in representative scenes from major works of dramatic literature. Prerequisite: DRMA 106 or 120 or permission of instructor. (SFCC)

DRMA 211 - Scenic Design I (3-5 cr)

Students learn the foundations and processes of scenic design for the stage, including period research, rendering, 3D modeling and construction. Students participate in the collaborative construction of a set. This course is appropriate for students with interests in drama, interior design and fine arts. (SFCC)

DRMA 212 - Costume Design I (3-5 cr)

Students learn the foundations and processes of costume design, including period research, rendering and fabrication. This course is appropriate for students with interests in drama, fashion and fine arts. (SFCC)

DRMA 220 - Classical Acting (5 cr)

Students study definition of character and exercises in character portrayal, definition of mood or emotion. They do exercises in portrayal of attitude and performance of characterization in scenes from major classical works of dramatic literature. Prerequisite: DRMA& 101 or DRMA 120 or 121 or permission of instructor. (SFCC)

DRMA 221 - Acting for Film and Television (5 cr)

Acting for film focuses on honing actors' skills essential for performances in front of the camera. The approach is very pragmatic. Emphasis is given to the differences between stage and camera performances, learning roles instead of lines, how the changing camera affect performance, the use of the voice for the camera, auditioning for a role, and participating in a shoot. Prerequisite: DRMA& 101 or DRMA 120 or 121 or permission of instructor. (SFCC)

DRMA 230 - Stagecrafting Theatrical Design (1-5 cr)

Students become proficient in understanding the theater environment, specifically theory of scene design and plans, construction techniques, scene painting, stage lighting techniques, purpose of lighting and design and costuming, properties and sound. May be repeated for a total of 15 credits. (SFCC)

DRMA 233 - Makeup (2 cr)

Purposes of stage makeup, physical features affected by makeup techniques, and technical skills in the application of stage makeup. (SFCC)

EARLY CHILDHOOD EDUCATION

ECED& 100 - Child Care Basics (3 cr)

Designed to meet licensing requirements for early learning lead teachers and family home child care providers, STARS 30 hour basics course recognized in the MERIT system. Topics: child growth/ development, cultural competency, community resources, guidance, health/safety/nutrition and professional practice. (SFCC)

ECED 103 - College Success (3 cr)

This course provides an opportunity for students entering early childhood education to learn about services and strategies to help them become successful college students. Prerequisite: Concurrent enrollment in any ECED course. (SFCC)

ECED& 105 - Introduction to Early Childhood Education (5 cr)

Explore the foundations of early childhood education. Examine theories defining the field, issues and trends, best practices, and program models. Observe children, professionals, and programs in action. (SFCC)

ECED& 107 - Health, Safety, Nutrition (5 cr)

This course emphasizes the development of skills needed to ensure good health, nutrition, and safety of children in group care and education programs. Students recognize the signs of abuse and neglect, responsibilities for mandated reporting, and available community resources. (SFCC)

ECED 118 - Early Childhood Education Seminar (0.5-11 cr)

These short-term, skill-building seminars provide students with training options for the early childhood education profession. Content focuses on a variety of aspects of early childhood education. Seminars can be taken prior to ECE coursework or to meet one-time and/or ongoing training requirements. These seminars address 11 Core Competencies outlined in the Washington State Training and Registry System (STARS) and can be used to meet annual requirements. (SFCC)

ECED& 120 - Practicum-Nurturing Relationships (2 cr)

In an early learning setting apply best practice for engaging in nurturing relationships with children. Focus on keeping children healthy and safe while promoting growth and development. (SFCC)

ECED& 132 - Infants and Toddlers (3 cr)

Examine the unique developmental needs of infants and toddlers. Study the role of the caregiver, relationships with families, developmentally appropriate practices, nurturing environments for infants and toddlers, and culturally relevant care. (SFCC)

ECED 133 - Practicum: Infants/Toddlers Care (2 cr)

In an infant or toddler childcare and education program, apply best practices for responsive, respectful, and reciprocal care. 44 practicum hours required in an approved infant or toddler program. (SFCC)

ECED& 134 - Family Child Care (3 cr)

Learn the basics of home/family child care program management. Topics include: licensing requirements; business management; relationship building; health, safety, and nutrition; guiding behavior and; promoting growth and development. (SFCC)

ECED& 139 - Administration of Early Learning Programs (3 cr)

Develop administrative skills required to develop, open, operate, manage, and assess early childhood education and care programs. Explore techniques and resources available for Washington State licensing and NAEYC standard compliance. (SFCC)

ECED& 160 - Curriculum Development (5 cr)

Investigate learning theory, program planning, and tools for curriculum development promoting language, fine/gross motor, social-emotional, cognitive and creative skills and growth In young children (birth-age 8). (SFCC)

ECED& 170 - Learning Environments for Young Children (3 cr)

Design, evaluate, and improve indoor and outdoor environments which ensure quality learning, nurturing experiences, and optimize the development of young children. (SFCC)

ECED& 180 - Language and Literacy (3 cr)

Develop teaching strategies for language acquisition and literacy skill development at each developmental stage (birth-age 8) through the four interrelated areas of speaking, listening, writing, and reading. (SFCC)

ECED& 190 - Observation and Assessment (3 cr)

Collect and record observation of and assessment data in order to plan for and support the child, the family, the group and the community. Practice reflection techniques, summarizing conclusions and communicating findings. (SFCC)

ECED 191 - Practicum: Observation and Assessment (2 cr)

In an early care and education classroom apply best practices working with young children, including observation and assessment of young children. 44 practicum hours required in an approved program. (SFCC)

ECED 282 - Practicum I (5 cr)

This course focuses on the documentation of children's growth and development through a portfolio project. One hundred and thirty-three hours of field experience are required. Prerequisite: ECED& 120. (SFCC)

ECED 283 - Practicum II (5 cr)

This practicum course is designed to be a synthesizing experience where a student puts theory into practice. It is a continuation of skill building developed in previous practice. Students examine all of the skills/competencies of the professional teacher and develop documentation of his/her own competencies. One hundred and thirty-three hours of field experience are required. Prerequisite: ECED& 120. (SFCC)

ECHOCARDIOGRAPHY

ECHO 100 - Introduction to Echo and Vascular (2 cr)

Introduction to the field of Echocardiography and Vascular Technology with emphasis on the role of these career pathways. Stresses the importance of professionalism, ethical behavior, and communications. Career opportunities, credentialing, program and health science student handbooks will be reviewed. Prerequisite: Admission to program and concurrent enrollment in ECHO 112, 125. (SCC)

ECHO 112 - Vascular Fundamentals (4 cr)

This course is an introduction to basic vascular anatomy of the lower and upper extremities, abdomen, visceral organs and cerebral vasculature with emphasis on the physiology of these systems. An introduction to the concepts essential for the performance and interpretation of vascular exams is also included. Laboratory experience is required. Prerequisite: Admission to program and concurrent enrollment in ECHO 100, 125. (SCC)

ECHO 116 - Acute Coronary Syndrome (1 cr)

A study of the nations number one killer in its acute phase. Pathophysiology of atherosclerosis. The stable versus the unstable patient. Vulnerable plaque types. STEMI versus NSTEMI patient presentations. The national door to balloon initiative. 12 lead EKG recognition of the signs of ischemia/infarct patterns. Prerequisite: Enrollment in NCT/ECHO program or permission of instructor. (SCC)

ECHO 117 - Cardiovascular Pharm 1 (1 cr)

Introduction to cardiovascular pharmacology. A review of control of heart rate, blood pressure, and cardiac output and the common drug groups employed to manipulate these parameters. Prerequisite: Enrollment in NCT/ECHO program or permission of instructor. (SCC)

ECHO 122 - Vascular Procedures I (4 cr)

This course introduces students to the basic vascular procedures used to assess the lower and upper extremities, abdomen, visceral organs and cerebral vasculature with emphasis on the ultrasonic examinations of these systems. Instrumentation commonly used in the vascular laboratory is also presented. Laboratory experiences are required. Prerequisite: Admission to program and concurrent enrollment in ECHO 135. (SCC)

ECHO 125 - Ultrasound Physics and Instrumentation I (5 cr)

This course emphasizes ultrasound physics, the physics of waves, sound transmission, attenuation, pulse wave principles, transducer and ultrasound systems operations. Prerequisite: Admission to program and concurrent enrollment in ECHO 100, 112. (SCC)

ECHO 126 - Hemodynamics (2 cr)

Introduction to various forms of invasive monitoring. Emphasis is placed on the basics of hemodynamic monitoring and interpretation. Normal and pathologic examples are introduced. Prerequisite: Enrollment in NCT/ECHO program or permission of instructor. (SCC)

ECHO 127 - Technical Skills/Reading Hemodynamics (1 cr)

Introduction to various forms of invasive monitoring. Emphasis is placed on the basics of hemodynamic monitoring and interpretation. Normal and pathologic examples are introduced. Supports concepts taught in ECHO 126. Prerequisite: Permission of instructor. (SCC)

ECHO 128 - Cardiovascular Pharm 2 (1 cr)

Continuation of ECHO 117 Intro to CV Pharm. Advanced Cardiac Life Support drugs are introduced. Pharmacy math is introduced. Pharmacy law is studied. Principles of IV therapy are introduced. Prerequisite: Enrollment in NCT/ECHO program or permission of instructor. (SCC)

ECHO 129 - Technical Skills/Pharmacology (1 cr)

Supports ECHO 127 concepts. Case studies of patients during cardiac emergencies will be evaluated for appropriate drug selection. Pharmacy math calculations will be taught. IV therapy techniques will be taught. Prerequisite: Enrollment in NCT/ECHO program or permission of instructor. (SCC)

ECHO 131 - Core Concepts in Echo Vasc (2 cr)

The core concepts in cardiac and vascular imaging will be explored. Applications of blood flow and hemodynamic analysis using Doppler and imaging technologies. Review of current literature and standards documents will be conducted. Prerequisite: Admission to program and concurrent enrollment in ECHO 136,138, 253. (SCC)

ECHO 133 - Echo Fundamentals (5 cr)

Introduction to the basic principles and application of the Doppler and echocardiographic procedures. The anatomy, image assessment, hemodynamics and clinical applications of cardiac ultrasound are emphasized. Laboratory experiences are provided. Prerequisite: Admission to program and concurrent enrollment in ECHO 122, 135. (SCC)

ECHO 135 - Ultrasound Physics and Instrumentation II (5 cr)

This course is a continuation of the concepts introduced in ECHO 125. Ultrasound physics emphasizes the Doppler techniques, artifacts, bio utilizing instrumentation to investigate the principles of Doppler techniques and artifacts. Prerequisite: Admission to program and concurrent enrollment in ECHO 122, 133. (SCC)

ECHO 136 - Comparative Imaging Analysis (3 cr)

The student will be exposed to normal anatomy and pathology cases that combine diagnostic medical sonography, computed tomography, magnetic resonance imaging and angiography. The student will gain an understanding of how diagnoses are made and patients are managed on the basis of findings from multiple imaging modalities. Prerequisite: Admission to the program and concurrent enrollment in ECHO 131, 253, 254. (SCC)

ECHO 138 - Cardiovascular Physiology (4 cr)

This course is an advanced study of normal cardiovascular physiology presented in a series of physician lectures and lab demonstrations with applications in invasive and noninvasive cardiology. Prerequisite: BIOL& 241, 242. Admission to program and concurrent enrollment in ECHO 131, 133. (SCC)

ECHO 139 - Surgical Asepsis (1 cr)

Surgical asepsis for health care providers. This class will prepare the student to create a sterile field. Gown and glove themselves and others. Procedural awareness of working in a sterile field will be developed. Prerequisite: Enrollment in NCT/ECHO program or permission of instructor. (SCC)

ECHO 140 - Technical Skills/Surgical Asepsis (1 cr)

This class supports ECHO 139. The skills of surgical asepsis and infection control are taught. Working in a sterile field and gowning and gloving are taught. Develop a surgical conscience. Prerequisite: Enrollment in NCT/ECHO program or permission of instructor. (SCC)

ECHO 141 - Data Collection and Presentation (3 cr)

Students explore applications in medicine and develop the ability to use the microprocessor for word processing database management and statistical analysis. Principles of statistics are reviewed and applied through database management. Prerequisite: Admission to program and concurrent enrollment in ECHO 142, 143. (SCC)

ECHO 142 - Echo Clinical Preparation (4 cr)

Students develop basic imaging skills by imaging normals within the SCC echocardiography laboratory. Clinical requirements are discussed and defined. The role and job description of the noninvasive cardiovascular technologist are evaluated. Prerequisite: Admission to program and concurrent enrollment in ECHO 141, 143. (SCC)

ECHO 143 - Echo Clinical I (6 cr)

Students spend four weeks in a clinical setting. Two weeks are spent in an echocardiography laboratory assisting staff in patient preparation; imaging time is provided when appropriate. Two weeks are spent in a noninvasive electrophysiology laboratory performing ECGs, exercise tolerance testing, Holter monitoring and pacemaker checks under the direction of a staff technologist. Weekly clinical seminars are conducted with SCC staff. A clinical consciousness is developed with emphasis on professionalism, clinical rapport, medical ethics and patient care. Prerequisite: Admission to program and concurrent enrollment in ECHO 141, 142. (SCC)

ECHO 213 - Electrophysiology (4 cr)

Students are introduced to the field of cardiovascular technology, basic cardiac anatomy; physiology and electrophysiology with emphasis on the performance and interpretation of the electrocardiogram. Laboratory experiences to support these concepts also are included. Prerequisite: Enrollment in noninvasive cardiovascular technology program or permission of instructor. (SCC)

ECHO 251 - Echocardiography Clinical II (6 cr)

Students obtain hands-on experience in hospital and clinical environments. Development of clinical technique in the utilization of current echocardiographic instrumentation in the evaluation of acquired cardiovascular disease is emphasized. Students apply the principles of medical legal ethics and professionalism to the patient, physician and other members of the health team. Clinical case reports are required. Prerequisite: Admission to program and concurrent enrollment in ECHO 253. (SCC)

ECHO 252 - Cardiovascular Pathophysiology (1 cr)

This course describes the pathophysiology of pulmonary diseases, their diagnosis and treatment. Prerequisite: Completion of previous quarter. (SCC)

ECHO 253 - Echocardiography I (6 cr)

Students utilize the fundamentals presented in the first year of noninvasive cardiovascular technology to evaluate acquired cardiovascular testing with emphasis on the performance and interpretation of M-mode, two-dimensional and Doppler echocardiography. Related physician lectures, clinical and laboratory experiences are presented. Prerequisite: Admission to program and concurrent enrollment in ECHO 136, 138, 254. (SCC)

ECHO 254 - Technical Skills Echocardiography I (2 cr)

The student will develop basic skills in performing the Doppler Echo examination on student volunteers. All procedures are performed under the supervision of credentialed cardiac sonographers. Prerequisite: Admission to program and concurrent enrollment in ECHO 253. (SCC)

ECHO 255 - Research Methods and Biostatistics (3 cr)

This course will discuss the basic principles of epidemiology and descriptive biostatistics as they apply to echocardiography and vascular technology. Topics include basic statistics, disease occurrence and recurrence, patterns and trends in a population, and interpretation of results. Prerequisite: Admission to program and concurrent enrollment in ECHO 263, 264. (SCC)

ECHO 261 - Echocardiography Clinical III (14 cr)

Students utilize the skills learned and obtain advanced experience in hospital and clinical environments. Development of clinical technique in the utilization of current echocardiographic instrumentation in the evaluation of acquired cardiovascular disease is emphasized. Students apply the principles of medical legal ethics and professionalism to the patient, physician and other members of the health team. Clinical case reports are required. Prerequisite: Admission to program. (SCC)

ECHO 263 - Echocardiography II (7 cr)

A continued study of cardiac noninvasive diagnostics with emphasis on the new developments and specialty applications. This course includes the echocardiographic approach to congenital heart disease. Physician lectures are utilized. Students will present registry review topics. Statistics and research methods are utilized. Prerequisite: Admission to program and concurrent enrollment in ECHO 261. (SCC)

ECHO 264 - Technical Skills Echo II (2 cr)

A continued study of cardiac noninvasive diagnostics with emphasis on the new developments and specialty applications. Laboratory experiences are provided in a clinical simulation format to develop the essential skills in the performance of the Doppler Echo imaging techniques. This course integrates the complete echocardiographic examination utilizing both fundamental and advanced techniques in a clinical simulation environment. Prerequisite: Admission to program and concurrent enrollment in ECHO 263. (SCC)

ECHO 273 - Echocardiography Clinical IV (14 cr)

Students practice clinical skills previously developed through active participation in a noninvasive cardiovascular laboratory. This full-time clinical internship is completed in an affiliated local or out-of-town hospital. Clinical skills necessary to the performance and evaluation of the M-mode, two-dimensional and Doppler Echocardiogram are emphasized. Written reports, review of current literature and attendance at conferences are required. Prerequisite: Admission to program. (SCC)

ECHO 299 - Independent Studies in Noninvasive Cardiovascular Technology (1-13 cr)

This course is designed for students wishing to complete specialized studies in the field of noninvasive cardiovascular technology. Objectives are developed jointly by the student and instructor. Credit hours are assigned according to the length of time required to complete the objectives. Credits are agreed upon at the time of enrollment. Students complete specialized clinical internships in pediatric echocardiography, color flow mapping or vascular technology. Prerequisite: Current enrollment or graduate of NCT/ECHO, or permission of instructor. (SCC)

ECONOMICS

ECON 100 - Fundamentals of Economics (5 cr)

A general introduction covering microeconomics (small sections of the economy), macroeconomics (economic system as a whole) and comparative economic systems. Students who plan to enroll in ECON& 201 or ECON& 202 should not enroll in ECON 100. (SCC, SFCC)

ECON& 201 - Micro Economics (5 cr)

Students are introduced to American economy with emphasis on prices, taxes, wages, production, farm problems, monopolies, labor, poverty and problems of the world economy. (SCC, SFCC)

ECON& 202 - Macro Economics (5 cr)

The general introductory course covering the organization, operation and control of the American economy--problems of inflation, unemployment, taxation, public debt, money and banking, business cycles and economic growth. Capitalism compared with communism and socialism. (SCC, SFCC)

EDUCATION PARAPROFESSIONAL, SPECIAL EDUCATION

EDUC 100 - Exploring Teaching (5 cr)

This course focuses on personal qualities of teachers, the changing face of education, learning theories, teaching methods, classroom management and career planning. Observations in educational settings occur to identify differences in grade levels, child development, and teaching styles. In addition, practical, hands-on experiences are incorporated to complement academic training. (SFCC)

EDUC& 115 - Child Development (5 cr)

Build a functional understanding of the foundation of child development, prenatal to adolescence. Observe and document physical, social, emotional, and cognitive development of children, reflective of cross cultural and global perspectives. (SFCC)

EDUC& 130 - Guiding Behavior (3 cr)

Examine the principles and theories promoting social competence in young children and creating safe learning environments. Develop skills promoting effective interactions, providing positive individual guidance, and enhancing group experiences. (SFCC)

EDUC& 136 - School-Age Care (3 cr)

Develop skills to provide developmentally appropriate and culturally relevant activities and care, specifically: preparing the environment, implementing curriculum, building relationships, guiding academic/social skill development, and community outreach. (SFCC)

EDUC& 150 - Child, Family, Community (3 cr)

Integrate the family and community contexts in which a child develops. Explore cultures and demographics of families in society, community resources, strategies for involving families in the education of their child, and tools for effective communication. (SFCC)

EDUC& 202 - Intro to Education (5 cr)

An orientation course designed to help the student--through an analysis of current educational issues--make a determination as to whether he or she should enter the field of teaching. (SCC, SFCC)

EDUC& 204 - Exceptional Child (5 cr)

This course introduces students to various categories of disabilities, legal and historical foundations for special education services, as well as opportunities to design and access educational resources for exceptional students from infancy to adulthood, within a community of collaboration and inclusion. (SCC, SFCC)

EDUC& 205 - Intro to Ed w/ Field Exp (5 cr)

This course explores the past, present and future of education in both theory and practice. For the students considering a career in education, this course examines historical, social, legal and philosophical issues as well as learning theory, teaching methods and current issues facing the profession. Students meet three hours per week in class and complete 44 hours of field experience in a school setting. (SFCC)

EDUC 206 - Tutor Training (1 cr)

This course prepares students to provide individual and small group tutoring. It includes the study of methods and materials for tutoring, interpersonal skills, and journaling. Prerequisite: Permission of instructor. (SFCC)

EDUC 207 - Advanced Tutor Training (1 cr)

This course prepares students to provide advanced individual and small group tutoring. It includes the study of methods and materials for tutoring, interpersonal skills, and journaling. Prerequisite: EDUC 206 and permission of instructor. (SFCC)

EDUC 208 - Tutorial Practicum (1-2 cr)

In this course students provide individual and small group tutoring within a supervised work environment of those skills. This course may be repeated. Prerequisite: Concurrent enrollment in EDUC 206 or 207 and/or permission of instructor. (SFCC)

EDUC 252 - Social/Emotional Development (5 cr)

This course begins with an orientation to the discipline of social and personality development through research methodologies and classical theories. Early social and emotional development are explored as are topics of the development of self-achievement, gender issues, and aggression and antisocial conduct. We conclude by considering the impact of family as well as extrafamilial influences, such as TV, peers and schools. Theory and research are applied to real life. (SFCC)

EDUC 267 - Cooperative Education Work Experience (1-18 cr)

For course description, see Cooperative Education. (SCC)

EDUC 270 - Introduction to Developmental Disabilities (5 cr)

This course addresses etiology of retardation, unresolved social questions, and problems related to the identification, education and professional/technical training of persons with developmental disabilities. Students are assigned to community agencies where they receive practical experience working with children or adults. Orientation includes current problems and trends in the field of developmental disabilities. Forty-four hours of field experience are required. Prerequisite: EDUC& 204 or permission of instructor. (SFCC)

EDUC 275 - Learning Disabilities (5 cr)

Basic difficulties encountered by children that lead to the label of "learning disabled" are addressed. Perceptual and neurological problems, reading difficulties and other etiological considerations are discussed. Practical classroom suggestions for treatment and remediation of learning disabilities are examined and outlined. Students are assigned to community agencies for practical experience working with children or adults who are experiencing learning problems. Forty-four hours of field experience are required. (SFCC)

EDUC 280 - Behavior/Classroom Management (5 cr)

This course provides a forum in which to explore various behavioral prevention and intervention strategies used in the education of children. Through this course students have opportunities to conduct observations, to develop prevention and interventions for specific situations, and to discuss the ethical issues with regard to behavioral support and management. (SFCC)

EDUC 281 - Education/Special Education Practicum I (5 cr)

Students are placed in an educational setting commensurate with their intended career goal. Key professional competencies are developed incorporating elements of teaching and learning. Integration of theory and practice is accomplished through practical engagement for 132 hours under close supervision. Prerequisite: Permission of instructor. (SFCC)

EDUC 282 - Education/Special Education Practicum II (5 cr)

Students in the education paraprofessional program are placed in a practicum setting, such as a public school or community service agency, where they have an opportunity to observe and work in settings in accordance with their career direction. Students work under the supervision of a qualified professional. As a culminating experience, students publicly present a capstone project of their own design. Prerequisite: EDUC 281. (SFCC)

ELECTRONICS ENGINEERING TECHNICIAN

ELECT 110 - Computer Fundamentals for Electronics (2 cr)

Students are introduced to the basics of the Microsoft Disk Operating System (DOS), word processing, keyboarding skills and various applications for the electronics industry. Prerequisite: Concurrent enrollment in ELECT 111, 112, 113. (SCC)

ELECT 111 - DC Circuits (2-7 cr)

Students are introduced to DC circuits including resistors and resistive circuits, series and parallel circuits, meter movements, ammeters, voltmeters, VOMs, DMMs and Wheatstone Bridges. (SCC)

ELECT 112 - DC Circuit Lab (2-5 cr)

This course presents DC circuits lab applications including resistors and resistive circuits, series and parallel circuits, meter movements, ammeters, voltmeters, VOM's, DMM's and Wheatstone Bridges. Prerequisite: ELECT 111 or department chair approval. (SCC)

ELECT 113 - DC/AC Circuit Math (1-5 cr)

Students review mathematics as it applies to DC/AC circuits and utilize the electronic calculator as a problem solving tool. The use of algebraic equations and trigonometric functions to solve circuit problems are emphasized. (SCC)

ELECT 121 - AC Circuits (2-9 cr)

Students are introduced to theory related to AC circuits, capacitors, coils, solid-state diodes, transformers, oscilloscopes, audio generators, and component checkers. Prerequisite: ELECT 111, 112, 113 or department chair approval and concurrent enrollment in ELECT 122. (SCC)

ELECT 122 - AC Circuit Lab (2-5 cr)

This course introduces AC circuit lab applications including capacitors, coils, solid-state diodes, transformers, oscilloscopes, audio generators and component checkers. Prerequisite: ELECT 111, 112, 113 or department chair approval and concurrent enrollment in ELECT 121 or department chair approval. (SCC)

ELECT 123 - Advanced DC/AC Circuit Math (1-5 cr)

This course is the study and application of algebraic exponents, phasor algebra and logarithms for DC/AC circuits. Prerequisite: ELECT 111, 112, 113 or department approval. (SCC)

ELECT 136 - Solid State Devices/Circuits (5 cr)

Students are introduced to semiconductor devices, their operation and characteristics. (i.e., transistors, diodes, and special devices). Basic power supply circuits also are covered. Prerequisite: ELECT 121, 122, 123 or department chair approval. (SCC)

ELECT 137 - Solid State Devices/Circuits Lab (4 cr)

Students experience a hands-on approach to theories by performing lab assignments pertaining to subjects covered in ELECT 136. Prerequisite: ELECT 121, 122, 123 or department chair approval and concurrent enrollment in ELECT 136 or department chair approval. (SCC)

ELECT 138 - Linear Devices/Circuits (5 cr)

Students are introduced to the characteristics and operation of amplifiers, linear circuits, active filter circuits and specialized circuits such as comparator, integrator and differentiator amplifiers. Prerequisite: ELECT 121, 122, 123 or department chair approval. (SCC)

ELECT 139 - Linear Devices/Circuits Lab (4 cr)

Students experience a hands-on approach to the characteristics and operation of operational amplifiers, linear circuits, active filter circuits and specialized circuits such as comparator, integrator and differentiator amplifiers. Prerequisite: ELECT 121, 122, 123 or department chair approval and concurrent enrollment in ELECT 138 or department chair approval. (SCC)

ELECT 211 - Digital Concepts (5 cr)

Students are introduced to the basic concepts of numbering systems (i.e., binary, octal and hex), digital devices such as gates, counters and flip-flops. An introduction to microprocessors, memory circuits, and microprocessor applications will be covered. General hardware structure, addressing and ASIC's will also be covered. Prerequisite: ELECT 136, 137, 138, 139 or department chair approval and concurrent enrollment in ELECT 212 or department chair approval. (SCC)

ELECT 212 - Digital Concepts Lab (4 cr)

Students experience a hands-on approach to theories by performing lab assignments pertaining to subjects covered in ELECT 211. Prerequisite: ELECT 136, 137, 138, 139 or department chair approval and concurrent enrollment in ELECT 211. (SCC)

ELECT 213 - Basic Computer Systems (5 cr)

Students are introduced to basic computer systems; the motherboard including Bus architecture, BIOS, storage devices, audio/video devices, printing devices, computer power supplies and other I/O devices. Basic peer-to-peer networks are also covered. Prerequisite: ELECT 136, 137, 138, 139 or department chair approval. (SCC)

ELECT 214 - Basic Computer Systems Lab (4 cr)

The course gives the student a hands-on approach to basic computer systems; the motherboard including Bus architecture, BIOS, storage devices, audio/video devices, printing devices, computer power supplies and other I/O devices. Basic peer-to-peer networks are also covered. System maintenance and troubleshooting is emphasized. Prerequisite: ELECT 136, 137, 138, 139 or department chair approval and concurrent enrollment in ELECT 213 or department chair approval. (SCC)

ELECT 221 - Communication Fundamentals (5 cr)

Students are introduced to the basic concepts of communications systems including RF, amplitude modulation (AM), frequency/phase modulation, basic transmitters and receivers. Prerequisite: ELECT 211, 212, 213, 214 or department chair approval. (SCC)

ELECT 222 - Communication Fundamentals Lab (4 cr)

Students experience a hands-on approach to the basic concepts of communications systems including RF, amplitude modulation (AM), frequency/phase modulation, basic transmitters and receivers. Prerequisite: ELECT 211, 212, 213, 214 or department chair approval and concurrent enrollment in ELECT 221 or department chair approval. (SCC)

ELECT 223 - Advanced Computer Systems (5 cr)

This advanced computer course will cover computer operating systems, installation and hardware setup, specialized computer interfacing, digital communications, data transmission, data cabling and computer diagnostics. Prerequisite: ELECT 213, 214 or department chair approval. (SCC)

ELECT 224 - Advanced Computer Systems Lab (4 cr)

Students experience a hands-on approach to computer operating systems, installation and hardware setup, specialized computer interfacing, digital communications, data transmission, data cabling and computer diagnostics. Prerequisite: ELECT 213, 214 or department chair approval and concurrent enrollment in ELECT 223 or department chair approval. (SCC)

ELECT 231 - Advanced Communications (5 cr)

This course covers transmission lines, radio wave propagation, antennas and fiber optics. The utilization of transmission and receiver techniques is emphasized. Prerequisite: ELECT 221, 222 or department chair approval. (SCC)

ELECT 232 - Advanced Communications Lab (4 cr)

Students experience a hands-on approach to theories by performing lab assignments pertaining to subjects covered in ELECT 231. Prerequisite: ELECT 221, 222 or department chair approval and concurrent enrollment in ELECT 231 or department chair approval. (SCC)

ELECT 245 - Principles of Avionics (5 cr)

Students are introduced to avionics communication, navigation, and flight control systems. Operation and testing using specialized equipment is emphasized. FAA regulations: Parts 43 and 91 as well as FCC requirements are also covered. Prerequisite: Instructor approval and concurrent enrollment in ELECT 246. (SCC)

ELECT 246 - Principles of Avionics Lab (4 cr)

Students experience a hands-on approach to theories by performing lab assignments pertaining to subjects covered in ELECT 245. Operation and testing using specialized equipment is emphasized. Prerequisite: Instructor approval and concurrent enrollment in ELECT 245. (SCC)

ELECT 247 - Avionics Systems (5 cr)

This course covers advanced navigation, flight control, interfacing and troubleshooting systems. FAA required certification testing of transponders, altitude encoders, pitot/static systems and altimeters is also covered. Prerequisite: Instructor permission and concurrent enrollment in ELECT 248. (SCC)

ELECT 248 - Avionics Systems Lab (4 cr)

Students experience a hands-on approach to theories by performing lab assignments pertaining to the subjects covered in ELECT 247. Special emphasis is given to FAA required certification testing of transponders, altitude encoders, pitot/static systems and altimeters. Prerequisite: Instructor permission and concurrent enrollment in ELECT 247. (SCC)

ELECT 255 - Digital Data Communications (5 cr)

This course covers digital modulation, multiplexing, digital signal processing, systems and data protocols, network operation, troubleshooting techniques, and security policies. Prerequisite: ELECT 231, 232 or department chair approval and concurrent enrollment in ELECT 256 or department chair approval. (SCC)

ELECT 256 - Digital Data Communications Lab (4 cr)

This course allows students to experience a hands-on approach to theories by performing lab assignments pertaining to subjects covered in ELECT 255. Prerequisite: ELECT 231, 232 or department chair approval and concurrent enrollment in ELECT 255 or department chair approval. (SCC)

ELECT 257 - Wireless Communications (5 cr)

This course covers spread spectrum technologies, troubleshooting wireless local area networks, antenna options, security, system design, and installation standards and regulations. Prerequisite: ELECT 231, 232 or department chair approval and concurrent enrollment in ELECT 258 or department chair approval. (SCC)

ELECT 258 - Wireless Communications Lab (4 cr)

Students experience a hands-on approach to theories by performing lab assignments pertaining to subjects covered in ELECT 257. Prerequisite: ELECT 231, 232 or department chair approval and concurrent enrollment in ELECT 257 or department chair approval. (SCC)

ELECT 261 - Photonics I (5 cr)

This course is designed to teach students the fundamental principles of optics, electro-optics, and lasers. The material contained in this course is intended for teaching technicians who require knowledge in these areas to successfully meet job requirements in the fields such as electronics, instrumentation, telecommunications, and biomedical equipment. This course can also address the technical training needs of working professionals who are required to update their skills with current technologies. Prerequisite: ELECT 138. (SCC)

ELECT 262 - Photonics I Lab (2 cr)

This lab is designed to aid students to understand the fundamental principles of optics, electro-optics, and lasers. The material contained in this course is intended for teaching technicians who require knowledge in these areas to successfully meet job requirements in the fields such as electronics, instrumentation, telecommunications, and biomedical equipment. This course can also address the technical training needs of working professionals who are required to update their skills with current technologies. Prerequisite: ELECT 138 or permission of instructor and concurrent enrollment in ELECT 261. (SCC)

ELECT 266 - Cooperative Education Seminar (1-2 cr)

For course description, see Cooperative Education. (SCC)

ELECT 267 - Cooperative Education Work Experience (1-18 cr)

For course description, see Cooperative Education. (SCC)

ELECT 278 - RF Communications (5 cr)

This course covers FCC rules and regulations; radiation power exposure and safety; and television systems including transmitters, translators and receivers. Prerequisite: ELECT 231, 232 or department chair approval and concurrent enrollment in ELECT 279 or department chair approval. (SCC)

ELECT 279 - RF Communications Lab (4 cr)

Students experience a hands-on approach to theories by performing lab assignments pertaining to subjects covered in ELECT 278. Prerequisite: ELECT 231, 232 or department chair approval and concurrent enrollment in ELECT 278. (SCC)

ELECTRICAL MAINTENANCE AND AUTOMATION

ELMT 102 - Electrical Basics (6 cr)

Students are introduced to the concepts of basic electrical theory, circuitry, meters, and introduction to electrical safety. (SCC)

ELMT 111 - Electrical Math (5 cr)

Concepts of mathematics and their application to the electrical field are presented. Additional areas covered include Ohm's Law, the metric system, algebraic formulas and trigonometry. (SCC)

ELMT 112 - Electrical Theory (5 cr)

Students study matter, atomic structure, electron theory, sources of electricity and magnetism. Prerequisite: ELMT 111 or MATH 096 or permission of instructor. (SCC)

ELMT 113 - Safety and Tools (4 cr)

A theoretical and practical study and its application to the electrical field is presented. This course provides general safety concepts to be applied when working with electric circuits, as well as job safety concepts. (SCC)

ELMT 114 - Materials and Fasteners (4 cr)

Students learn to identify electrical materials and their applications. In addition, students classify, grade and use fasteners, such as bolts, screws, and rivets. Proper torque values are explained. (SCC)

ELMT 122 - DC Circuits (1-5 cr)

Theory and shop application in Ohm's Law, voltage, current, resistance, and power in series, parallel and series-parallel direct current circuits are presented in this course. Prerequisite: ELMT 112 or permission of instructor. (SCC)

ELMT 123 - AC Theory (5 cr)

Students analyze AC series, parallel, and combination circuits with resistance, inductance and capacitive elements using mathematics, measuring devices and other test equipment. Prerequisite: ELMT 122 or permission of instructor. (SCC)

ELMT 124 - Motor Maintenance (2-5 cr)

Students learn to perform the mechanical disassembly, assembly, and/or inspection of bearings, commutators, slip rings, brushes and insulation found in small and medium-sized motors. (SCC)

ELMT 131 - Solid State (2-5 cr)

This course introduces the study of theory and operation of solid state devices such as diodes, transistors, triacs and SCRs. Prerequisite: ELMT 123. (SCC)

ELMT 132 - DC Generators and Motors (1-5 cr)

Theory, design, application and testing of direct current (DC) motors and generators are presented in this course. The teardown and reassembly of DC generators also are included. Prerequisite: ELMT 122. (SCC)

ELMT 133 - AC Motors and Alternators (4 cr)

Theory, design, application and testing of alternating current (AC) motors; single- and three-phase generation of alternating current (single-and poly-phase); paralleling alternators and calculating load and power factor characteristics under various load conditions are presented. Prerequisite: ELMT 123 or permission of instructor. (SCC)

ELMT 134 - Introduction to AC Controls (5 cr)

This course introduces pilot devices, wiring diagrams and basic motor circuits. Areas of emphasis include overload, hand-off automatic and parallel stop-start controls. The wiring and troubleshooting of various motor control circuits also are introduced. (SCC)

ELMT 135 - DC Motor Controls (4 cr)

Students study DC motor control devices such as manual starting rheostats, reduced voltage starting, braking and speed control. The development of ladder diagrams to NFPA standards is addressed. Prerequisite: ELMT 132. (SCC)

ELMT 241 - AC Motor Controls (5 cr)

This course continues with the concepts introduced in ELMT 134 with emphasis on pilot devices, timing circuits, control voltage, ladder diagrams and sensors. Wiring and troubleshooting of various motor control circuits also are included. Prerequisite: ELMT 134. (SCC)

ELMT 242 - Advanced AC Controls (5 cr)

This course is a continuation of the concepts introduced in ELMT 134 and 241 with emphasis on forward and reversing, motor deceleration and braking, advanced timing circuits, and basic sequence control. The wiring and troubleshooting of various motor control circuits also are included. Prerequisite: ELMT 241 or permission of instructor. (SCC)

ELMT 243 - Introduction to Programmable Controllers (4 cr)

This course is an introduction to programmable controllers, hardware, programming fundamentals, numbering systems, memory organization and peripheral devices. Prerequisite: ELMT 134 or permission of instructor. (SCC)

ELMT 244 - Solid State Motor Controls (4 cr)

This course includes the theory of operation, testing and programming of solid-state starters, and DC and AC variable frequency drives. Students use test equipment and manuals including digital volt meters and oscilloscopes. Prerequisite: ELMT 131, 134 or permission of instructor. (SCC)

ELMT 251 - National Electric Code (4 cr)

The National Electrical Code and its application to the safe installation of electrical conductors and equipment is explained in this course. (SCC)

ELMT 252 - Transformers and Industrial Lighting (5 cr)

This course is a comprehensive study of the theory and operation of transformers and industrial lighting. The functions of various types of transformers and the maintenance and repair of industrial lighting systems are emphasized. Students perform the actual hookup and testing of basic single-phase and three-phase transformer connections, observe and demonstrate proper safety and maintenance techniques, and develop service wiring skills. Prerequisite: ELMT 123 or permission of instructor. (SCC)

ELMT 253 - National Electric Code - Article 430 (1-5 cr)

This course offers an in-depth study of Article 430 of the National Electrical Code and its application to motors, motor circuits and controllers. (SCC)

ELMT 254 - Programmable Controller Applications (5 cr)

Practical experience in programming circuits using relay type instructions, timers, counters, data manipulation, arithmetic functions and other advanced techniques is offered in this class. Prerequisite: ELMT 244 or permission of instructor. (SCC)

ELMT 262 - Raceways (1-5 cr)

This course provides practical shop experience in the bending of conduit using hand, mechanical and hydraulic benders. Prerequisite: ELMT 111 or MATH 096 or permission of instructor. (SCC)

ELMT 263 - Wiring Techniques (4 cr)

Students are offered actual lab experience in project layout, support and installation of electrical systems. (SCC)

ELMT 265 - Advanced Programmable Controllers (1-5 cr)

This course is an introduction to the concepts of analog input/output devices, motion control, vision basics, networking programmable controllers, software installation and graphical man/machine interfaces. Practical experience applying this information to motor control is emphasized. Prerequisite: ELMT 254 or permission of instructor. (SCC)

ELMT 266 - Cooperative Education Seminar (1-2 cr)

For course description, see Cooperative Education. (SCC)

ELMT 267 - Cooperative Education Work Experience (1-16 cr)

For course description, see Cooperative Education. (SCC)

ELMT 268 - Programmable Controller Integration (1-5 cr)

This course provides practical experience in industrial process control applications and hardware, plant floor communication networks, and operator interface devices. Prerequisite: ELMT 265. (SCC)

ELMT 288 - Cooperative Education Work Experience (No Seminar) (1-18 cr)

For course description, see Cooperative Education. (SCC)

EMERGENCY MEDICAL SERVICES

EMS 120 - Basic First Aid in the Workplace (2 cr)

This is a basic first aid course encompassing the following: bleeding control and bandaging; practical methods of artificial respiration including mouth-to-mouth and mouth-to-nose resuscitation; cardiopulmonary resuscitation; poisons, shock, unconsciousness and stroke; burns and scalds, sunstroke, heat exhaustion, frostbite and freezing; strains, sprains and hernias; fractures and dislocations; proper transportation of injured; bites and stings; and subjects covering specific health hazards likely to be encountered by coworkers of first aid students enrolled in the course. (SCC)

EMS 121 - Emergency Management Training for Professionals (3 cr)

This course was designed to meet new accreditation guidelines and requirements for Allied Health and Nursing students. This course will cover First Aid for Professionals, AHA (CPR for Health Care Providers) and Emergency Preparedness and Management for Health Care Professionals. Successful completion of this course will include a First Aid Card and Health Care Provider CPR card. (SCC)

EMS 122 - Basic Wilderness Survival (4 cr)

This course was designed to meet the basic needs of wilderness survival. This course covers the importance of preparation prior to leaving on a wilderness trip. Understanding how the body responds in different environments, with an emphasis on clothing and gear selection. Students will learn how to build and maintain a fire, build a shelter and learn signaling techniques in survival situations. Students will also learn the importance of water and food in survival situations. (SCC)

EMS 125 - EMT Refresher (3 cr)

This course is designed to meet WA state and NREMT standards for EMT recertification. (SCC)

EMS 128 - Emergency Medical Technician-Basic Lecture (10 cr)

This course is for students actively involved in providing pre-hospital care and is not intended as a first aid course to the general public. Students learn to recognize the nature and seriousness of a patient's injury, assess the need for emergency medical care; and administer medical care that may include lifting, moving and positioning the patient to minimize discomfort and prevent further injury safely and effectively. The course meets the NHTSA, Washington State and National Registry for EMT requirements for certification as an EMT-Basic. Prerequisite: 18 years of age, high school diploma or GED certificate, AHA Healthcare Provider or ARC CPR for the Professional Rescuer, and the physical strength to perform normal functions of an EMT-Basic. Students are not eligible for certification until they become a functioning member of a state recognized affiliated EMS providing agency. (SCC)

EMS 129 - Emergency Medical Technician-Basic (3.1 cr) This course is for students actively involved in providing pre-hospital care and is not intended as a first aid course to the general public. Students learn to recognize the nature and seriousness of a patient's injury, assess the need for emergency medical care; and administer medical care that may include lifting, moving and positioning the patient to minimize discomfort and prevent further injury safely and effectively. The course meets the NHTSA, Washington State and National Registry for EMT requirements for certification as an EMT-Basic. Prerequisite: 18 years of age, high school diploma or GED certificate, AHA Healthcare Provider or ARC CPR for the Professional Rescuer, and the physical strength to perform normal functions of an EMT-Basic. Students are not eligible for certification until they become a functioning member of a state recognized affiliated EMS providing agency. (SCC)

EMS 200 - Introduction to Paramedicine (3 cr)

This course prepares students for certification as EMT-P. Students are presented with a solid base of education regarding the paramedic's roles and responsibilities, and the medical/legal issues that apply to the profession. Prerequisite: BIOL& 160, 241, 242 and current Emergency Medical Technician Certification. Admission to the program. (SCC)

EMS 202 - Medical Communication and Documentation (3 cr)

This course describes the appropriate communication and documentation techniques to be used within the EMS Profession with differentiation between medical professionals and the lay public. Instruction will include communication techniques specific to the profession as well as terminology and styles for communication. Prerequisite: Permission of the instructor. (SCC)

EMS 206 - General Pharmacology (3 cr)

This course introduces students to paramedic pharmacology and certification as EMT-P. Students are presented with a solid base of education regarding the paramedic's rules and responsibilities and the medical/legal issues that apply to patient assessment. Prerequisite: BIOL& 160, 241, 242 and current Emergency Medical Technician Certification. Admission to the program. (SCC)

EMS 208 - Patient Assessment (3 cr)

This course introduces students to paramedic pharmacology and certification as EMT-P. Students are presented with a solid base of education regarding the paramedic's rules and responsibilities and the medical/legal issues that apply to patient assessments, proper communication and documentation techniques. Prerequisite: BIOL& 160, 241, 242 and current Emergency Medical Technician Certification. Admission to the program. (SCC)

EMS 210 - General Medicine I (3 cr)

This course introduces students to paramedic topics in general medicine. Prerequisite: Successful completion of prior program course work and permission of the instructor. (SCC)

EMS 212 - General Cardiology (3 cr)

This course prepares students for certification as EMT-P. Extensive coverage of the cardiovascular system, its disease process and the treatment is emphasized. Prerequisite: Successful completion of prior program course work and permission of the instructor. (SCC)

EMS 214 - General Traumatology (3 cr)

This course prepares students for certification as EMT-P. Students are introduced to pharmacology, its applications and the role it plays in the treatment of injured patients. Prerequisite: Successful completion of prior program course work and permission of the instructor. (SCC)

EMS 220 - General Medicine II (3 cr)

This course continues studies on paramedic topics in general medicine. Prerequisite: Successful completion of prior program course work and permission of the instructor. (SCC)

EMS 222 - Life Span Medicine (3 cr)

This course introduces students to differences in medicine applied throughout the life span from pediatrics to geriatrics. Prerequisite: Successful completion of prior program course work and permission of the instructor. (SCC)

EMS 224 - Paramedic Operations (3 cr)

This course introduces students to paramedic operational support. Prerequisite: Successful completion of prior program course work and permission of the instructor. (SCC)

EMS 230 - Special Topics In Paramedicine (3 cr)

Student are provided a variety of pertinent, current Emergency Medical Technician (Paramedic) topics. Course content varies depending upon the topics chosen. Prerequisite: Successful completion of prior program course work and permission of the instructor. (SCC)

EMS 240 - Paramedic Skills Lab I (2 cr)

This course prepares students for certification as EMT-P. The application of various types of intravenous access are introduced. Issues of hemorrhage and shock including numerous types and forms of trauma such as musculoskeletal trauma, soft tissue injuries, burns, head and face trauma, thoracic, abdominal and spinal trauma are emphasized. Prerequisite: BIOL& 160, 241, 242 and current Emergency Medical Technician Certification. Admission to the program. (SCC)

EMS 242 - Paramedic Skills Lab II (2 cr)

This course continues studies in paramedic skills in the laboratory. Prerequisite: Successful completion of prior program course work and permission of the instructor. (SCC)

EMS 244 - Paramedic Skills Lab III (2 cr)

This course continues instruction on paramedic skills in the laboratory. Prerequisite: Successful completion of prior program course work and permission of the instructor. (SCC)

EMS 250 - Paramedic Clinical I (4 cr)

Students are introduced to the clinical environment by spending four weeks in the clinical setting under the direction of a staff Emergency Medical Technician (Paramedic). Weekly clinical seminars are conducted with faculty. A clinical consciousness is developed with emphasis on professionalism, clinical rapport, medical ethics and patient care. Prerequisite: Successful completion of prior program course work and permission of the instructor. (SCC)

EMS 252 - Paramedic Clinical II (4 cr)

This course provides hands-on experience in the hospital and clinical environment. Emphasis is placed on the development of clinical techniques in the emergency department; obstetrics; pediatrics and ICU units. Student then apply the principles of principles of medical legal ethics and professionalism to the patient, physicians and other members of the health team. Clinical case reports are required. Prerequisite: Successful completion of prior program course work and permission of the instructor. (SCC)

EMS 260 - Paramedic Internship I (5 cr)

This course incorporates all of the previous courses into clinical experience for students in the pre-hospital environment. Students spend time with emergency medical service providers practicing and refining the skills acquired during the earlier training medical incident classes. Additional education in related fields including air-operations, medical incident command, rescue awareness, crime scenes and hazardous materials is emphasized. Prerequisite: Successful completion of prior program course work and permission of the instructor. (SCC)

EMS 262 - Paramedic Internship II (5 cr)

This course continues to incorporate all of the previous courses into clinical experience for students in the pre-hospital environment. Students spend time with emergency medical service providers practicing and refining the skills acquired during the earlier training medical incident classes. Additional education in related fields including air-operations, medical incident command, rescue awareness, crime scenes and hazardous materials is emphasized. Prerequisite: Successful completion of prior program course work and permission of the instructor. (SCC)

ENGLISH

ENGL 050 - ESL Writing (5 cr)

This course is for ESL students at the low-intermediate level whose writing skills require additional preparation before entering ENGL 061 or ENGL 071. Emphasis is on writing compound and complex sentences. The course provides strategies for developing vocabulary and applying the rules of grammar and punctuation to English sentences. (SCC, SFCC)

ENGL 052 - ESL Reading (5 cr)

This course is for ESL students at the low-intermediate level whose reading skills require additional practice before entering ENGL 062 or ENGL 072. Students work on vocabulary development and improving reading comprehension. (SCC, SFCC)

ENGL 053 - ESL Listening and Speaking (5 cr)

This course is for ESL students at the low-intermediate level whose reading skills require additional practice before entering ENGL 062 or ENGL 072. Students work on vocabulary development and improving reading comprehension. (SCC, SFCC)

ENGL 054 - Beginner Applied Grammar (5 cr)

This course focuses on the grammatical structures high-beginner English language learners need to function in both the real world and academic settings. The course emphasizes controlled and communicative practice through use of grammar in listening, speaking, reading, and writing activities. Prerequisite: Appropriate placement score and by permission of the instructor. (SCC, SFCC)

ENGL 061 - ESL Writing (5 cr)

This course is for ESL students at the intermediate level whose writing skills require additional preparation before entering ENGL 071 or ENGL 081. It provides strategies for developing vocabulary, applying the rule of grammar and punctuation, writing compound and complex sentences, and composing basic paragraphs. (SCC, SFCC)

ENGL 062 - ESL Reading (5 cr)

This course is for ESL students at the intermediate level whose reading skills require additional practice before entering ENGL 072 or ENGL 082. Students work on vocabulary development and improving reading fluency and comprehension. (SCC, SFCC)

ENGL 063 - ESL Listening and Speaking (5 cr)

This course is for ESL students at the intermediate level whose listening and speaking skills require additional practice before entering ENGL 073 or ENGL 083. Students work on listening, speaking and interaction skills necessary for communicating in an academic environment. Emphasis is on experiential learning. Students are given opportunities to develop language competence by participating in various classroom, college and community activities. (SCC, SFCC)

ENGL 064 - Pre-Intermediate Applied Grammar (5 cr)

This course focuses on the grammatical structures English language learners at a pre-intermediate level need to function in both the real world and academic settings. The course emphasizes controlled and commutative practice through use of grammar in listening, speaking, reading, and writing activities. Prerequisite: Appropriate placement score and by permission of the instructor. (SFCC, SCC)

ENGL 071 - ESL Writing (5 cr)

This course prepares ESL (English as a second language) students for college-level writing tasks. The course helps prepare students to write a variety of coherent, well-developed paragraphs and increases the student's fluency and independence in writing. Prerequisite: TOEFL score of 440 or demonstration of the same by written essay. (SCC, SFCC)

ENGL 072 - ESL Reading (5 cr)

This course prepares ESL (English as a second language) students for college-level reading and study tasks. Students concentrate both on learning and applying the skills needed for comprehending various types of required college reading and learn the study strategies to prepare them for college success. Prerequisite: TOEFL score of 440 or demonstration of the same by written essay. (SCC, SFCC)

ENGL 073 - ESL Listening and Speaking (5 cr)

This course prepares ESL (English as a second language) students with the oral communication skills and listening comprehension strategies needed both for communicating with and understanding others in an academic environment. Prerequisite: TOEFL score of 440 or demonstration of the same by written essay. (SCC, SFCC)

ENGL 074 - Intermediate Applied Grammar (5 cr)

This course focuses on the grammatical structures intermediate English language learners need to function in both the real world and academic settings. The course emphasizes controlled and commutative practice through use of grammar in listening, speaking, reading, and writing activities. Prerequisite: Appropriate placement score and by permission of the instructor. (SCC, SFCC)

ENGL 081 - ESL Writing (5 cr)

This course is designed for the ESL (English as a second language) student whose writing skills require additional preparation before entering ENGL 099 or ENGL& 101. (SCC, SFCC)

ENGL 082 - Reading and Study Skills for the ENS (English for the Non-native Speaker (5 cr)

This course is designed to increase the confidence and success of the non-native speaker of English in college-level courses. The course focuses on developing reading, study and testing strategies. (SCC, SFCC)

ENGL 083 - ESL Conversation (5 cr)

This course is designed to increase the ESL (English as a second language) student's ability to understand and use both written and spoken American English at the college level. (SCC, SFCC)

ENGL 084 - High Intermediate/Advanced Applied Grammar (5 cr)

This course will focus on the grammatical structures high-intermediate/advanced English language learners need to function in both the real world and academic settings. The course emphasizes controlled and commutative practice through the use of grammar in listening, speaking, reading, and writing activities. Prerequisite: Appropriate placement score and by permission of instructor. (SCC, SFCC)

ENGL 093 - Individualized Study Skills (1-5 cr)

This course sharpens students' skills in textbook study, note taking and time management as well as in memory improvement and general classroom survival skills. It may not be taken simultaneously with ENGL 094 or ENGL 151. Students can enroll in the same lab course no more than three quarters regardless of the number of hours for which they enroll. Grading option: Pass/Fail. (SFCC)

ENGL 094 - Study Skills (5 cr)

This course sharpens students' skills in textbook study, note taking and time management as well as in memory improvement, reading comprehension and classroom survival skills. Students also may be introduced to methods which increase reading rates and develop vocabulary. Prerequisite: SCC-Self-Placement. (SCC, SFCC)

ENGL 095 - Reading Lab (1-5 cr)

This course improves students' reading skills through programs that include vocabulary, rate increase, comprehension or study skills. Students can enroll in the same lab course no more than three quarters regardless of the number of hours for which they enroll. Grading option: Pass/Fail. (SFCC)

ENGL 096 - Reading Improvement (3-5 cr)

This course focuses on helping students improve their reading. Students will practice various reading comprehension strategies, including vocabulary improvement, pre-reading, active reading, and organizing information. Prerequisite: SCC-Self-Placement. (SCC, SFCC)

ENGL 097 - Basic Writing: From Sentence to Paragraph (5 cr)

This course provides students with the basic elements of grammar and punctuation as they relate to writing complete and accurately punctuated English sentences. The course attends to grammar, ranging from prepositional phrases to independent and dependent clauses to the recognition and proper punctuation of sentence elements. Formal writing tasks include recognition of boundaries and composing basic paragraphs. Prerequisite: SCC-Self-Placement. (SCC, SFCC)

ENGL 098 - Writing Lab (1-5 cr)

This course offers students individually tailored composition skills through work on paragraphs and essays, sentence structure and mechanics. It is offered in either lecture or lab mode. In the lab mode, the content moves from the paragraph to the essay with emphasis on structure and mechanics, and students earn 5 credits. Students may enroll in the same lab course no more than three quarters regardless of the number of hours for which they enroll. Grading option: Pass/Fail. Prerequisite: SCC-Self-Placement. (SCC, SFCC)

ENGL 099 - Improvement of Writing (5 cr)

Students review paragraph development and write several essays. Principles governing sentence structure and punctuation are emphasized. This course may be taken twice for credit. Prerequisite: SCC-Self-Placement. SFCC-2.0 grade in ENGL 097, current enrollment in or successful completion of ENGL 098, appropriate placement score, or permission of instructor. (SCC, SFCC)

ENGL& 101 - English Composition I (5 cr)

This course develops and sharpens the basic principles of writing college-level essays. Students work on a series of essays to improve their ability to write clear, detailed prose and to use texts to support their claims. Competence in mechanics and standard English usage is assumed of all students taking ENGL& 101. Prerequisite: SCC-Self-Placement. SFCC-Either completion of ENGL 099 with a P or a 2.0 or higher, or appropriate placement score(s). (SCC, SFCC)

ENGL& 102 - Composition II (5 cr)

This course teaches students research skills by emphasizing the development of critical reading habits, investigative proficiency, and the writing of expository and persuasive prose including documented research essays. Students work to understand academic audiences, increase their clarity and objectivity, and adhere to standard formats. Prerequisite: ENGL& 101 with a 2.0 or higher. (SCC, SFCC)

ENGL 104 - Grammar and Punctuation (3 cr)

Students review the traditional principles of grammar and punctuation and apply these principles. Prerequisite: Concurrent enrollment in ENGL& 101 or permission of instructor. (SCC, SFCC)

ENGL& 111 - Intro to Literature (5 cr)

Students read and discuss short stories, plays, and poetry with an emphasis on understanding and appreciating the richness and diversity of literature. (SCC, SFCC)

ENGL& 112 - Intro to Fiction (5 cr)

Students explore the verbal and thematic breadth of classic and contemporary fiction. Emphasis is on perceiving the techniques writers use to create an aesthetic experience for readers. (SCC, SFCC)

ENGL& 113 - Intro to Poetry (5 cr)

Students explore the themes, the craft, and the history of poetry, reading and interpreting a diverse selection of poems, with a focus on contemporary writers. Emphasis is on understanding the ways in which poets manipulate language to create meaning. (SCC, SFCC)

ENGL& 114 - Introduction to the Literature of Drama (5 cr)

Students explore the major themes, conventions, and historical trends of drama from ancient Greece to the present. Emphasis is on understanding how playwrights create stories and shape language for live performance. (SCC, SFCC)

ENGL 120 - Applied Technical Writing for Vocations (3-5 cr)

Presentation of advanced technical writing forms with written assignments selected by vocational faculty from a menu, including such topics as: Short forms (catalog searches, requisitions, memorandums, etc.); technical reports; job search exercises; the proper use of graphics; research skills; revision skills. Prerequisite: ENGL 189 with a 2.0 or better, or permission of English department chair. (SCC)

ENGL 150 - Academic Communication Skills for International Students (5 cr)

This advanced course is offered for students whose native languages are not English. Students learn and practice intensified reading and study strategies as well as other communication skills necessary for academic success. Prerequisite: Placement through assessment, permission of international student program adviser or permission of instructor. (SFCC)

ENGL 151 - College Reading and Study Skills (5 cr)

Students learn strategies to become independent learners and critical thinkers. Emphasis is on understanding how memory works and improving note taking, test taking, textbook reading, time management and vocabulary. The course cannot be taken simultaneously with SCC-ENGL 094; or SFCC-ENGL 093 or 094. (SCC, SFCC)

ENGL 157 - Using Study Systems: Before, During, and After Reading (2 cr)

Designed to be linked to a content area course, this course examines effective before, during and after reading strategies for content-area course textbooks. Students will learn to develop and use a personal study system incorporating principles of time management. Recommended COMPASS reading placement of 80 and above, ASSET score of 40 and above. This course cannot be taken simultaneously with ENGL 093 or ENGL 094. Credit will not be granted for both ENGL 151 and ENGL 157. (SFCC)

ENGL 188 - Introduction to Writing for Vocational Students (1-3 cr)

This course provides instruction in the fundamentals of writing (basic grammar, sentence structure, punctuation, spelling and organization). Students learn to write basic paragraphs including, but not limited to, process, description, cause and effect, and comparison and/or contrast. (SCC)

ENGL 189 - Writing for Vocational Students (1-3 cr)

Provides instruction in basic writing concepts, including sentence structure, paragraphs and longer papers. It also reviews fundamentals of grammar, punctuation and spelling. (SCC)

ENGL 195 - Special Topics in English for International Students (1-5 cr)

This advanced-level communications course is offered to students whose native languages are not English. The emphasis of each course is a particular communication topic: Writing, conversation and listening, pronunciation, study skills, and reading. Content and scope vary from quarter to quarter. The course may be repeated for credit with different topics. Prerequisite: International student program adviser or permission of instructor. (SFCC)

ENGL 208 - British Literature to 1800 (5 cr)

This survey covers British literature from Beowulf through the 18th century, emphasizing the major writers and their relationships to the significant literary traditions of their time. Discussion topics include the use of poetry, drama, fiction, and essays to explore social and ethical issues, the evolution of the English language and of new literary forms, and the use of satire and humor by writers. (SCC, SFCC)

ENGL 209 - British Literature since 1800 (5 cr)

This survey explores the progression of British literature from 1800 to the present, including the Romantic movement, the Victorian era, Modernism, and Post-Colonialism. Discussion topics include the relationship between writing and nature, the potential of literature to address injustice and other social issues, and the literary responses to war and other sources of cultural upheaval.. (SCC, SFCC)

ENGL& 220 - Intro to Shakespeare (5 cr)

This course explores Shakespeare's plays and sonnets in light of the historical and social milieu of Elizabethan England. Students develop strategies for understanding Shakespeare's language and analyzing his writings as literary expressions and cultural documents. (SCC, SFCC)

ENGL& 235 - Technical Writing (5 cr)

Students learn to communicate information about a particular art, science, trade or profession. The course emphasizes such skills as clarity, objectivity, audience analysis and adherence to format. Students use subjects within their intended majors or career fields to write business correspondence, memoranda, resumes, mechanism descriptions, progress reports and analytical research reports. Prerequisite: Minimum 2.0 in ENGL& 101 or permission of instructor. (SCC, SFCC)

ENGL& 236 - Creative Writing I (5 cr)

This course is an introduction to creative writing, with an emphasis on both reading and writing. We'll do a close study of works of contemporary poetry and fiction to determine how a given work is put together and how writers achieve desired effects. We'll write a series of poetry exercises and a series of fiction ones, and we'll devote several classes to sharing each other's work in progress, both informally and in workshops. Prerequisite : ENGL& 101 or permission of instructor. (SCC, SFCC)

ENGL& 237 - Creative Writing II (5 cr)

This course teaches creative writing for intermediate writers. It is the logical continuation of ENGL& 236; however, it also is suited for students who, provided they have had prior writing experience, wish to pursue specific writing projects or are interested in both receiving and dispensing constructive peer critique in an informal workshop setting. Students have the opportunity to balance class activities with individual writing interests. The emphasis is on writing as a serious craft, and the course focuses primarily on poetry and prose though other forms of writing also may be included. Prerequisite: ENGL& 236 or permission of instructor. (SCC, SFCC)

ENGL 238 - Advanced Expository Writing (5 cr)

This class is a logical extension of ENGL& 101 and ENGL& 102, going beyond rhetorical modes and research skills to explore and practice the longer essay. Prerequisite: Minimum 2.0 in ENGL& 102. (SCC, SFCC)

ENGL 241 - The Bible as Literature (5 cr)

Students experience a literary study of history's most influential book. Readings from the Bible illustrate its major themes and genres. An exploration of the Bible's historical and cultural contexts provides background for these readings. Students gain a foundation for appreciating the Bible's massive impact on subsequent literature. (SCC)

ENGL 247 - American Multicultural Literature (5 cr)

This course surveys the cultural diversity of American literature, with an emphasis on writings from the 1950s to the present. Readings may be drawn from contemporary African American, Asian American, Latina/o, Native American, Jewish, LGBTQ, and/or other traditions. (SCC, SFCC)

ENGL 248 - American Literature to 1865 (5 cr)

This course surveys the writers and issues that formed American literature from the earliest known oral traditions through the Civil War. Discussion topics include the literary responses to historical events such as early contact between Europeans and American native groups, the establishment of the United States as a nation, and slavery; as well as stylistic and thematic innovations by American writers. (SCC, SFCC)

ENGL 249 - American Literature since 1865 (5 cr)

This survey course focuses on selected works of American writers from the Civil War to the present. Discussion topics include the development of cultural and ethnic literary traditions in an era of immigration and social change, as well as literary experimentation and challenges to earlier traditions. (SCC, SFCC)

ENGL 254 - Literary Magazine Production (2-5 cr)

A production course for Legend's, SCC's literary magazine. Discussion and criticism of writing, theory and practice; layout and design; process of publication, theory and practice. (SCC)

ENGL 255 - Advanced Literary Magazine Production (2-5 cr)

A continuation of the concepts introduced in ENGL 254 with emphasis on advanced concepts and production work involved in the creation of Legend's, SCC's literary magazine. Discussion and criticism of writing, theory and practice; layout and design; process of publication, theory and practice. Prerequisite: ENGL 254. (SCC)

ENGL 259 - African American Literature (5 cr)

This course examines the African American literary tradition through the works of key authors from pre-Civil War writings to the present, locating these works in cultural and historical contexts. Discussion topics include the use of writing to advance human rights, the relationship between identity and language use, and the connections between literature and other art forms. (SCC, SFCC)

ENGL 261 - Studies in the Novel (5 cr)

This course explores the variety and cultural impact of the novel as a literary form. Students pursue a deeper appreciation and understanding of the genre and its practitioners. At the instructor's discretion, the course may focus on a particular theme, subgenre, or historical period.. (SCC, SFCC)

ENGL 271 - World Literature to 1650 (5 cr)

This course offers a comparative approach to the literature of Europe, Asia (including East Asia, the Middle East, and the Subcontinent), Africa, and the Americas. Readings explore both diversity and continuity in the written expression of multiple world cultures from the dawn of literacy to the Early Modern period. (SCC, SFCC)

ENGL 272 - World Literature since 1650 (5 cr)

This course offers a comparative approach to literature from Europe, Asia, Africa, and the Americas. Students trace the emergence of a global literature from the period of European colonialism to the contemporary multicultural world. (SCC, SFCC)

ENGL 278 - Women Writers (5 cr)

This course emphasizes the themes, conventions, and techniques employed by women writers. Students analyze fiction, poetry, and drama written by women in order to gain a greater understanding of and appreciation for the literary contributions of women across class and cultural boundaries. (SCC, SFCC)

ENGL 295 - Special Studies in Literature (2-5 cr)

Students analyze, discuss and write about the literature of a particular genre, author or period. The course content varies and may include the following: Classical mythology, contemporary novels, mystery or crime fiction, historical novels, Western fiction, women writers, and Black and Chicano literature. The emphasis of each course is understanding the themes, conventions and techniques of the writers within the genre. The aim is to assist students in recognizing the ways in which literature reflects and challenges the values of its audience. Course may be repeated for credit with different topics. Prerequisite: Minimum of 2.0 in ENGL& 101 or permission of instructor. (SCC, SFCC)

ENGL 335 - Technical and Professional Writing (5 cr)

This course emphasizes the writing of clear and direct prose for a variety of workplace audiences. Topics include usability in writing, communication as a form of problem-solving, research approaches appropriate to technical and professional fields, and visually effective document design. Credit will not be granted for both ENGL& 235 and ENGL 335. Prerequisite: Minimum of 2.0 in ENGL& 101 or permission of instructor; admission to a B.A.S. program at SFCC. (SFCC)

ENGINEERING

ENGR 103 - Engineering Graphics/CAD (5 cr)

This is a basic graphics course for engineers using manual and computer-aided (CAD) methods. The course emphasizes visualization, spatial relations and design. Multiview working drawings and 3-D pictorial drawings are combined into a design project at course conclusion. Descriptive geometry principles are studied for graphical problem solving, as well as CAD solids modeling. Prerequisite: MATH 099. (SFCC)

ENGR 110 - Engineering Problems and Orientation (3 cr)

This course is an introduction to the world of engineering. It also is an orientation for students who have an interest in engineering but know little about the various disciplines or functional areas. Simple application problems in mechanics, thermal and electrical sciences, and fluids are examined to give students an appreciation for these subjects. There also is an introduction to the personal computer in engineering work. Prerequisite: MATH 099. (SFCC)

ENGR 111 - Engineering Projects (2 cr)

This is a project course that complements ENGR 110. Students work in teams to design and/or build an object. Robots, 3D CAD and creative devices can be used. Prerequisite: ENGR 110 or concurrent enrollment in ENGR 110. (SFCC)

ENGR 120 - Introduction to Engineering Computation (2 cr)

Introduction to modern engineering computing as applied to problems in engineering, mathematics, and science. Introductory instruction using MATLAB software with topics including array and matrix manipulation, functions, graphical analysis, and basic script programming. Prerequisite: MATH& 141. (SFCC)

ENGR 190 - Electronic Logic (5 cr)

The operation and use of linear and digital circuits normally used in and with micro- and minicomputers. Use of system and logic design; build and test typical circuits using TTL logic. Prerequisite: Basic electronics courses with permission of instructor. (SFCC)

ENGR 201 - Statics (5 cr)

A fundamental course in engineering mechanics for particles and rigid bodies in equilibrium. Problems in two and three dimensions using both scalar and vector algebra methods. Prerequisite: MATH& 152 and concurrent enrollment in PHYS 201. (SFCC)

ENGR 202 - Dynamics (5 cr)

Fundamental course in engineering mechanics for particles and rigid bodies experiencing acceleration. Students study unbalanced forces and torques acting on bodies, and the resulting motion using scalar and vector algebraic methods. Prerequisite: ENGR 201. (SFCC)

ENGR 203 - Mechanics of Materials (5 cr)

The study of internal stresses, strains, and deformations of structural members and parts resulting from externally applied loads. Covers design criteria for beams, columns, pressure vessels, bolts, shafts, etc. Prerequisite: ENGR 201. (SFCC)

ENGR 210 - Electric Circuit Theory (5 cr)

A first course in elementary linear circuit analysis for the electrical sciences designed for electrical engineers. Circuit analysis laws, theorems and reduction techniques are studied for first- and second-order circuits. These circuits contain dependent sources and multiple configurations of capacitors and inductors. A weekly lab complements the class lectures. Prerequisite: MATH& 153, 274 (may be taken concurrently), PHYS 202. (SFCC)

ENGR 211 - Electrical Circuits Applications (1 cr)

In this course, students will explore experimental applications of electrical circuits. Students will design, analyze and test electrical circuits to perform instrumentation, amplification, and control applications. ENGR 211 is intended for students planning to transfer to a semester-based electrical engineering program or for students who would like to gain more experience with electrical circuits. Prerequisite: ENGR 210 or concurrently enrolled in ENGR 210. (SFCC)

ENGR 240 - Applied Numerical Methods for Engineers (3 cr)

Numerical solutions to engineering problems using modern scientific computing tools. Application of mathematical judgment in selecting computational algorithms and communicating results. Prerequisite: ENGR 120 and concurrent enrollment in MATH& 153. (SFCC)

ENVIRONMENTAL SCIENCES

ENVS& 101 - Intro to Env Science (5 cr)

A study of the basic concepts of ecology, including ecosystems structure and function, energy flow, biochemical cycles, limiting factors, population dynamics and community interactions. Emphasis is placed on the use of the scientific method to investigate man's current environmental problems and to propose possible solutions. Meets A.A. degree lab science requirement. (SCC, SFCC)

ENVS 104 - Environmental Conservation (5 cr)

This course introduces basic principles of conservation with emphasis on renewable natural resources, soils, water, forest, range, wildlife and recreation. (SCC)

ENVS 110 - Plant Biology (5 cr)

This course introduces biological principles and the relationship between plants and man. Students learn how the plant-dependent world ecosystem supports human existence. (SCC)

ENVS 207 - Wildlife Biology (5 cr)

This course provides students with the basic principles of wildlife ecology, habitat, population dynamics, behavior and management practices. (SCC)

ENVS 208 - Outdoor Recreation and Interpretation (3 cr)

Students learn about a variety of regional outdoor recreation activities, their management, with an emphasis on safety and environmental ethics. (SCC)

ENVS 210 - Environmental Soil Science (5 cr)

This course introduces the properties, characteristics and functions of forest soils found in natural conditions. The relationships between native vegetation and noncultivated soils are emphasized. (SCC)

ENVS 211 - Weather and Climate (5 cr)

This course introduces the descriptive treatment of meteorological and climatological phenomena including winds, weather fronts, air masses, clouds, temperature and precipitation. Basic computations, weather map analysis, forecasting and instrumentation techniques are emphasized. (SCC)

ENVS 216 - Fisheries Ecology (5 cr)

This course covers the ecology of freshwater fish and fisheries. We will focus on fish biology and identification, riparian structure and function, fisheries management, and approaches to conservation of fisheries. (SCC)

ENVS 217 - Wildlife Techniques (4 cr)

This course builds on basic ecology skills and focuses on applied sampling theory, field approaches, and practical applications relative to wildlife habitat and population sampling methods. Prerequisite: ENVS 207, NATRS 120, 122 or permission of instructor. (SCC)

ENVS 220 - Introduction to Geographic Information Systems for Natural Resources (5 cr)

Students apply cartographic concepts to the development of effective reference and thematic maps using ESRI's suite of ArcGIS software. The evaluation, management, collection and display of spatial data is emphasized. Geoprocessing tools are applied to environmental science scenarios. Basic computer skills required. (SCC)

ENVS 226 - Fisheries Techniques (4 cr)

This course involves the study of sampling techniques for fish and aquatic habitats in streams and lakes in the inland northwest. Emphasis is put on practical experience with techniques commonly used by fisheries technicians. Prerequisite: Enrollment in program or permission of instructor. (SCC)

ENVS 227 - Advanced Wildlife Biology (4 cr)

This course builds on the basic ecology skills developed in ENVS 207 and focuses on the integration and practical application of fish and wildlife ecological theory. (SCC)

ENVS 237 - Bird Identification (3 cr)

This course develops bird identification skills necessary to compete for jobs conducting landbird monitoring within this region. (SCC)

FILM

FILM 140 - Silent Cinema (2 cr)

Formerly HUM 140. The silent cinema film course will trace cinema's rapid evolution from its primitive beginnings to the sound era. A variety of films from around the world will be studied in terms of artistic, historical and social contexts. Film clips and full-length films produced and directed by the pioneers of the film industry will be viewed. (SFCC, SCC)

FILM 141 - Introduction to FILM (5 cr)

Formerly HUM 141. This course is a basic introduction to how films communicate meaning and influence society. The course gives the students an understanding of film forms, techniques and styles. Students develop a critical viewpoint and be able to explain the many ways in which film communicates. The overall goal of the course is to produce perceptive and sensitive film viewers. Feature-length films are viewed in class. (SFCC, SCC)

FILM 207 - Basic Movie Making Techniques (5 cr)

This course is designed to acquaint the student with the three basic phases of movie making and emphasizes the directorial and storytelling functions of the media. Prerequisite: FILM 141 or permission of instructor. (SCC)

FILM 221 - Great Film Directors (5 cr)

Formerly HUM 221. This course is designed for students interested in exploring the films, styles and themes of great film directors--American and international. Students study four American directors, four international directors and one independent director. The directors and films studied vary each quarter. In addition, each student researches and studies films of one director of his/her choice. (SFCC)

FILM 222 - American Film Classics (5 cr)

Formerly HUM 222. American classic films, through the 1990s, are viewed and discussed in order to appreciate the evolution of the technical art of the cinema and to analyze how film content is a social barometer of the period of time in which it was produced. Full-length feature classics such as "Birth of a Nation" and "Citizen Kane" are studied. (SFCC)

FILM 223 - Classic International Cinema (5 cr)

Formerly HUM 223. An overview of the history of international cinema as art rather than as a commercial product. Major national film stylistic developments and movements are studied by viewing representative feature length films including classics such as Einstein's Potemkin, De Soca's The Bicycle Thief and Kurosawa's Ran. (SFCC)

FILM 224 - Contemporary Global Cinema (5 cr)

Formerly HUM 224. This course is a study of people of different national, ethnic and racial backgrounds via a review of current international cinema. Emphasis is placed on exploring economic, social and political issues. Feature length films will be viewed in class, including Zhang Yomou's Story of Qiu Ju, Nihita Mikhalkov's Burnt by the Sun and Gregory Nava's Mi Familia. (SFCC)

FILM 225 - Independent Film (5 cr)

Formerly HUM 225. This course is for students interested in exploring films made outside of the studio system, usually on low budgets and often exploring themes, values and subject matter which are highly personal and intense in nature including themes which mainstream cinema finds uninteresting, offensive or not likely to produce a profitable product. (SFCC)

FILM 236 - The Documentary Film (5 cr)

Formerly HUM 236. A course designed to explore, analyze and interpret the documentary as an aesthetic form; a device to document human experience; and a vehicle of social change. Students explore the historical perspective of the documentary as well as examine the tradition of film techniques that affect the reality and "truth" depicted through the genre. (SFCC)

HYDRAULIC AND PNEUMATIC AUTOMATION TECHNICIAN

FLPT 104 - Hydraulics/Pneumatic Fundamentals (6 cr)

Students learn the basic fundamentals of hydraulics/pneumatic operations. (SCC)

FLPT 111 - Hydraulic Calculations (5 cr)

This course is a review of basic algebra skills and procedures required for setting up and solving fluid power problems. Mathematical formulas required to calculate oil pressure, actuator forces and speed, oil flow and velocities required for fluid line sizing are emphasized. The use of force and speed requirements of a machine to set up the hydraulic system calculations required for determining oil flow, oil pressure and the input horsepower is stressed. Prerequisite: Concurrent enrollment in FLPT 112, 113, 114. (SCC)

FLPT 112 - Hydraulic Basics and Theory (5 cr)

This course introduces basic laws related to oil hydraulics and their practical applications to hydraulic component operation by changing either oil flow or pressure. Students relate the hydraulic component to the corresponding ANSI fluid power symbol and study hydraulic schematics for automated machinery identifying each component and its application and effect on the total system. Industrial plants and machine manufacturers who build machinery using industrial hydraulic components are studied in the classroom. Prerequisite: Concurrent enrollment in FLPT 111, 113, 114. (SCC)

FLPT 113 - Blueprint Reading (4 cr)

Students are introduced to the basic construction of automated machinery including the various types of materials, fasteners, and welding and machining operations used to fabricate machine parts from mechanical drawings. Machining tolerance, finishes, parts dimensioning, welding symbols, and the types of details, sections and views used on typical mechanical drawings are presented. Prerequisite: Concurrent enrollment in FLPT 111, 112, 114. (SCC)

FLPT 114 - Basic Hydraulics Lab (2 cr)

This course offers practical applications in the study of oil flow and pressure and their relationship to component operation. Students learn to read hydraulic schematics for automated machinery. Prerequisite: Concurrent enrollment in FLPT 111, 112, 113. (SCC)

FLPT 121 - Pneumatic Theory (6 cr)

This course introduces basic laws related to compressed air and their application in air compressors, plant air, piping, and sizing pneumatic components. Mathematical formulas and setup procedures for calculations required in pneumatic systems and the production of schematic drawings for pneumatic power and control circuits are included. Prerequisite: Concurrent enrollment in FLPT 122, 123. (SCC)

FLPT 122 - Drawing Fundamentals (3 cr)

This course introduces basic sketching and lettering emphasizing orthographic and isometric drawing styles. The layout and dimensioning of shop mechanical drawings are presented. Prerequisite: Concurrent enrollment in FLPT 121, 123. (SCC)

FLPT 123 - Machine Controls (7 cr)

Students study the interfacing of mechanical, hydraulics, pneumatics with electrical, electronic or pneumatic controls for predetermined sequence of operation for automated machines. Reading and drawing the electrical schematics used to control solenoid valves for hydraulic or pneumatic actuators; terminology and symbols used in programming schematics for an Allen Bradley Mini PLC 2 programmable controller; interpreting symbols required for reading air logic pneumatic schematics used for machine controls; and writing machine sequence of operations to match schematic operations are emphasized. Prerequisite: Concurrent enrollment in FLPT 121, 122. (SCC)

FLPT 131 - Hydraulic Systems (6 cr)

This course is a detailed study of five basic hydraulic systems and their applications to powering production machinery. Basic systems, hydraulic components and their working relationship which is controlled by their location, and piping arrangement in the overall system are emphasized. Prerequisite: FLPT 111, 112, 121 and concurrent enrollment in FLPT 132, 133, 134, 135. (SCC)

FLPT 132 - Fluid Line Fabrication (2 cr)

This course offers practical applications in fluid conductor fabrication emphasizing the safe and accurate operating procedures required in the setup and use of specialized tools. Fabricating procedures include cutting and threading pipe; cutting, bending and flaring tubing; cutting hydraulic hoses; and assembling permanent and reusable hose ends. Prerequisite: FLPT 112, 121 and concurrent enrollment in FLPT 131, 133, 134, 135. (SCC)

FLPT 133 - Fluid Line Connectors (5 cr)

Students study the three basic types of fluid lines and the fittings required to install them in a hydraulic system. Fluid line construction, materials used, manufacturing tolerances, quality control, specifications for purchasing, pressure limitations and oil flow characteristics based on I.D. are covered. Fitting identification, description and manufacturer part numbers are used to acquaint students with high pressure, low pressure and vacuum applications. Prerequisite: FLPT 112, 121 and concurrent enrollment in FLPT 131, 132, 134, 135. (SCC)

FLPT 134 - Shop Drawing (2 cr)

Students are introduced to drawing and lettering skills required to produce drawings of parallel bars, directional valve templates, and pump and motor mounting brackets. Prerequisite: FLPT 112, 121 and concurrent enrollment in FLPT 131, 132, 133, 135. (SCC)

FLPT 135 - Fluid Line Sizing Calculations (2 cr)

This course deals with specific calculations required in the study of fluid lines to size fluid lines in hydraulic systems. Prerequisite: FLPT 112, 121 and concurrent enrollment in FLPT 131, 132, 133, 134. (SCC)

FLPT 136 - Applied Hydraulics/Pneumatics (2-5 cr)

This course introduces to the basics of fluid power and its application to various programs. Hydraulic and pneumatic systems operation and their relationship to electrical, electronic or pneumatic control systems are emphasized. The course is offered for variable credits to meet the needs of various programs. (SCC)

FLPT 230 - Advanced Pneumatics Theory (3 cr)

Students learn energy and air consumption; pneumatic automation components; pneumatic system design and vacuum system and applications. Prerequisite: FLPT 131 and concurrent enrollment in FLPT 231, 232, 233, 234. (SCC)

FLPT 231 - Advanced Pneumatics Lab (2 cr)

Students learn energy and air consumption; pneumatic automation components; pneumatic system design and vacuum system and applications. Prerequisite: FLPT 131 and concurrent enrollment in FLPT 231, 232, 233, 234. (SCC)

FLPT 232 - Mechanical Drive Systems Theory (3 cr)

Students learn the Mechanical Drive System servo and stepper motor drives; lead screw technologies; variable speed drives and drive controls. Prerequisite: FLPT 231 and concurrent enrollment in FLPT 231, 232, 233, 234. (SCC)

FLPT 233 - Mechanical Drive Systems Lab (3 cr)

Students learn the Mechanical Drive System servo and stepper motor drives; lead screw technologies; variable speed drives and drive controls. Prerequisite: FLPT 232 and concurrent enrollment in FLPT 231, 232, 233, 234. (SCC)

FLPT 234 - Velocity and Load Calculations (1 cr)

This course content relates to load velocities and kinetic energy; moment load calculations and force requirements. Prerequisite: FLPT 233 and concurrent enrollment in FLPT 230, 231, 232, 233. (SCC)

FLPT 243 - Advanced Machine Controls (5 cr)

This course is a study of the advantages of programmable logic controllers (PLC) over relay logic machine control. Students learn the advantages of machine control available when using data manipulation features in PLC programming. Converting relay logic electrical schematic drawings to PLC schematics, developing a PLC program from a specific machine sequence of operation, programming the PLC and verifying the program on a machine simulator board wired to the PLC are emphasized. Prerequisite: FLPT 131. (SCC)

FLPT 251 - Hydraulic Circuits (4 cr)

Students learn the principles of circuits, components and fluid line sizing. Estimating costs for materials is introduced. Prerequisite: FLPT 131 and concurrent enrollment in FLPT 252, 253, 254. (SCC)

FLPT 252 - Hydraulic Component Repair (6 cr)

Students learn shop procedures for hydraulic and pneumatic component disassembly, inspection, repair and testing using prepared lab sheets and manufacturers' parts sheets. Safe use of hand tools and the importance of cleanliness in the work area are emphasized. Prerequisite: FLPT 131 and concurrent enrollment in FLPT 251, 253, 254. (SCC)

FLPT 253 - Fluid Line Layout and Assembly (2 cr)

This course introduces basic procedures required for the layout and assembly of pipe and pipe fittings to fit a specific component arrangement. The fabrication of fluid lines to fit existing tube fittings that meet or exceed the manufacturers' pressure test specifications is emphasized. Prerequisite: FLPT 131 and concurrent enrollment in FLPT 251, 252, 254. (SCC)

FLPT 254 - Advanced Hydraulics Lab (3 cr)

This course offers practical applications in the creation of hydraulic circuits emphasizing calculations, selection of components and sizing fluid lines. Costing out materials is presented. Prerequisite: FLPT 131 and concurrent enrollment in FLPT 251, 252, 253. (SCC)

FLPT 264 - Fluid Power Computer Applications (4 cr)

Students are introduced to various computer applications used in the fluid power industry. Students learn basic AutoCad commands and procedures used to create schematics using specialized symbol menus. They become proficient in the use of Automation Studio, a fluid power simulation program, to design and troubleshoot circuits. In addition, students learn to develop a hydraulic engineering calculations worksheet using Excel and to use manufacturers' CDs for design and engineering specifications. Prerequisite: Successful completion of first year or permission of instructor. (SCC)

FLPT 265 - Hydraulic Circuit Design (3 cr)

This course offers practical shop experience in the construction of a hydraulic circuit design from an automated machine specification. Prerequisite: FLPT 251 and concurrent enrollment in FLPT 268, 269. (SCC)

FLPT 266 - Cooperative Education Seminar (1-2 cr) For course description, see Cooperative Education. (SCC)

FLPT 267 - Cooperative Education Work Experience (1-18 cr)

For course description, see Cooperative Education. (SCC)

FLPT 268 - Fluid Power Application and Sales (5 cr)

This course introduces controlled selling techniques required for successful fluid power sales. Computerized inventory control methods are included. Prerequisite: FLPT 251 and concurrent enrollment in FLPT 265, 269. (SCC)

FLPT 269 - Hydraulic Manifold Design (5 cr)

This course offers theory and practical lab experience in the identification of important controlling factors necessary to specify a custom made hydraulic manifold. Students learn to generate a series of manifold drawings using component layout techniques and AutoCad. Prerequisite: FLPT 251 and concurrent enrollment in FLPT 265, 268. (SCC)

FLPT 271 - Pneumatic Theory (2-5 cr)

This course introduces basic pneumatic (compressed air) theory, identification of components in a pneumatic system, and basic circuit design and troubleshooting. (SCC)

FLPT 272 - Pneumatic Math and Symbols (2-4 cr)

This course introduces basic pneumatic theory and the interpretation of pneumatic symbols and diagrams. Related mathematics for calculating flow, pressure and volume is presented. (SCC)

FLPT 273 - Hydraulic Theory (2-5 cr)

This course introduces basic hydraulic theory. Students learn to identify and apply components in a hydraulic system. (SCC)

FLPT 274 - Applied Hydraulics (2-4 cr)

This course offers practical application and interpretation of hydraulic circuits emphasizing the drawing and interpretation of circuits using proper schematic symbols. (SCC)

FLPT 279 - Proportional Valves (4 cr)

Students are introduced to the use of proportional valves to accurately position, accelerate and decelerate actuators. Precise mechanical positioning of the valve spool and the interfacing of an electronic sensor to indicate spool position is emphasized. The effect of infinite spool positioning on oil pressure and the elimination of hydraulic system shock is covered. Prerequisite: FLPT 112 or 136 or 273 and 274 or permission of instructor. (SCC)

FLPT 288 - Cooperative Education Work Experience (No Seminar) (1-18 cr)

For course description, see Cooperative Education. (SCC)

HEALTH/FITNESS TECHNICIAN

FMT 106 - Anatomical and Physiological Kinesiology (5 cr) This course is designed to study the anatomical aspects of the human body, including the skeletal, muscular, mechanical, and functional. Special attention is given to the analysis of movement problems. (SFCC)

FMT 111 - Physiology of Exercise (5 cr)

This course explores the range and ability of the human body. Areas of study include brain-body connections; physiological responses of the lungs and heart to exercise; and effects of drugs, hormones and environment on human performance. The training effects of exercise, fatigue, as well as general fitness brought about by regular exercise. In addition, the acute and chronic adaptations to training at altitude will be explored. (SFCC)

FMT 112 - Special Considerations in Exercise (3 cr)

This course analyzes the physiological and psychological characteristics of older adults, adolescents, children, and pre/post natal individuals as they apply to fitness assessment and exercise programming. It also examines the impact of exercise on various conditions such as diabetes, cardiovascular and pulmonary disease, obesity, and musculoskeletal disease. In addition to lecture, lab time is designed to develop "hands-on" knowledge of fitness assessment, exercise technique and related modifications. Prerequisite: FMT 204. (SFCC)

FMT 115 - Leadership Dynamics (3 cr)

This course is designed to study concepts involved in developing leadership traits: When leaders are at their best, what followers expect, and how to enlist others and foster collaboration. In addition, this course studies communication and how it applies to leadership and job-related skills. (SFCC)

FMT 119 - Principles of Strength Training (5 cr)

This course explores the scientific principles involved with increasing human strength. The skeletal muscles and joints are studied. All forms of isotonic and isometric exercise are taught. Effects of nutrition, fatigue and exercise on the muscular system is analyzed. (SFCC)

FMT 204 - Health Appraisal and Exercise Prescription (5 cr)

This course incorporates current fitness industry standards with regards to appropriate assessment techniques, i.e., participant screening, health appraisal, health history, physical assessments, determination of risk factors and lifestyle patterns. Following the comprehensive health/fitness appraisal, techniques for exercise prescription and programming are developed. Components of exercise prescription are incorporated, which include goal setting, strength programming, cardiovascular programming, flexibility, nutrition guidance and behavior modification. Feedback and evaluation methods are developed. (SFCC)

FMT 209 - Exercise and the Cardiovascular System (3 cr)

This course is designed for physical education, health science and fitness management technician majors who have desire to gain basic knowledge of the cardiovascular system at rest, in response to exercise and major disease states. The evaluation of risk factors, fundamentals of electrocardiography, exercise testing techniques, clinical management of major disease states and rehabilitation are discussed. (SFCC)

FMT 219 - Injury Prevention and Rehabilitation (5 cr)

Course is designed to provide the basic knowledge and skills that aid in the prevention and rehabilitation of injuries common in athletic and recreational activities. (SFCC)

FMT 225 - Personal Training (5 cr)

This course enables students to recommend and develop safe exercise routines based on the following processes: 1) health screening, 2) fitness assessments, 3) client goals, 4) client motivation, 5) re-evaluation and 6) education. Students become competent in fitness testing protocols, proper exercise technique, nutrition for weight loss and sports performance; as well as legal, ethical and professional standards currently followed in the fitness industry. Students are prepared to take The American Council or Exercise Personal Trainer Certification exam. (SFCC)

FMT 230 - Therapeutic Massage (3 cr)

Introduces the student to basic techniques of massage. Includes therapeutic applications for sport, stress and clinical practices. Effects of hydrotherapy are covered and the Washington State Massage Act--18.108 RCW is discussed. (SFCC)

FMT 235 - Biomechanics (5 cr)

This course covers the application of the mechanical principles involved in sport and exercise. Students are supplied with basic tools to facilitate the identification, analysis, and solution of problems related to human movement. Topics covered include basic terminology, kinematic and kinetic concepts, linear and angular movement, and equilibrium. (SFCC)

FIRE OFFICER

FOD 101 - Fire Officer IA (4 cr)

This course introduces students to a fire officer's duties. Content includes the required mindset, report writing, diversity, workplace safety, decision making, quality assurance, supervisory practices and pre-incident planning. Prerequisite: Fire department affiliation. (SCC)

FOD 102 - Fire Officer IA Work Based Learning (2 cr)

Students learn to manage task assignments, citizens' complaints, accident investigations, member assistant programs, and to apply human resource management policies and safety regulations. Prerequisite: FOD 101 and worksite authorization agreement. (SCC)

FOD 103 - Fire Officer IB (3 cr)

This course gives students a profound understanding of a fire officer's duties. Determining fire cause, emergency operations, compliance issues, scene safety, Incident Management System (IMS), strategy/tactics, assessment and action planning, and the public information officer (PIO) functions are emphasized. Prerequisite: FOD 102 and fire department affiliation. (SCC)

FOD 104 - Fire Officer IB Work Based Learning (3 cr)

This course includes directing training evolutions, managing public inquiries, determining preliminary fire cause, pre-incident planning, incident action planning and emergency operations. Prerequisite: FOD 103 and work site authorization agreement. (SCC)

FOD 110 - Fire Service Leadership (3 cr)

This course emphasizes the effectiveness of a fire officer. Content includes role conflict, creativity, personal power, ethics, problem solving, decision making, situational leadership, delegating, coaching and discipline. Prerequisite: FOD 103 and fire department affiliation. (SCC)

FOD 131 - Fire Service Instructor I (3 cr)

This course introduces students to the skills necessary for fire service instructors. Content includes instructor challenges, presentation skills, legal considerations, student learning, delivery methods, instructional media and evaluating performance. (SCC)

FOD 132 - Fire Service Instructor II Work Based Learning (3 cr)

Students develop skills in the four-step lesson plan. Students design curriculum and present lessons based on their awareness in the fire service utilizing the skills learned from instructor courses. Prerequisite: Fire department affiliation. (SCC)

FOD 133 - Fire Service Instructor II (3 cr)

Students learn to advance as a fire service instructor in this course. Content includes planning models, needs and task analysis, lesson plan development, performance testing, supervisor training programs and critiques. Prerequisite: FOD 132 and fire department affiliation. (SCC)

FOD 140 - Fire Service Incident Safety Officer (2 cr)

This course is designed to help students identify the role of the safety officer on specific types of incidents. Students learn to develop and apply safety plans for various incidents. Prerequisite: Fire department affiliation. (SCC)

FOD 201 - Fire Officer IIA (3 cr)

Further understanding of a fire officer's duties is emphasized in this course. Content includes interaction with government agencies, report writing, managing human resources, RMS, budgets, performance appraisals, exposure reports and public education. Prerequisite: FOD 104 and fire department affiliation. (SCC)

FOD 202 - Fire Officer IIA Work Based Learning (3 cr)

This course emphasizes maximizing member and unit performance, delivering public education, changing policies, budget preparation, report writing and analyzing accident/injury reports. Prerequisite: FOD 201 and work site authorization agreement. (SCC)

FOD 203 - Fire Officer IIB (3 cr)

Further understanding of a fire officer's duties is emphasized in this course. Content includes interaction with government agencies, report writing, managing human resources, RMS, budgets, performance appraisals, exposure reports and public education. Prerequisite: FOD 202 and fire department affiliation. (SCC)

FOD 204 - Fire Officer IIB Work Based Learning (3 cr)

This course emphasizes maximizing member and unit performance, preparing news releases, conducting fire inspections, determining a fire's point of origin and producing incident operational plans. Prerequisite: FOD 203 and work site authorization agreement. (SCC)

FOD 205 - Fire Investigation (3 cr)

Students learn methods of determining the area of fire origin, fire causes, fire spread and other aspects of fire behavior; recognition of accidental and incendiary fires; securing and preserving evidence of a suspected arson; witness interrogation methods; arson laws and court procedures; court case preparation and testimony; coordination with other investigative agencies; compilation of reports and records; and review of case histories. Prerequisite: Volunteer or career firefighter or permission of program coordinator. (SCC)

FOD 206 - Fire Inspection and Codes (4 cr)

Students study the fire code as it applies to fire prevention inspections at the fire company level. The fire code's relationship to the building Code and other recognized standards are presented. General provisions of the fire code maintenance of exit way, fire protection, flammable and combustible liquids, liquified petroleum gases, places of assembly, and general precautions against fire are emphasized. Discussions of public relations and alternate methods and materials give the course a realistic approach to field operations. Prerequisite: Volunteer or career firefighter or permission of program coordinator. (SCC)

FOD 210 - Incident Management-Multi-Company Operations (3 cr)

This course emphasizes the management of multi-alarm incidents. Content includes expanding incident management systems (IMS), scene safety, managing resources, pre-incident planning, decision making, communications, post-incident analysis and multiple scenarios. Prerequisite: Fire department affiliation. (SCC)

FOD 260 - Career Assessment (2 cr)

The course emphasis is on gathering and documenting career related training and experience in a portfolio that will be assessed for comparable academic credit. Prerequisite: Basic computer skills recommended. Permission of instructor and evidence of employment required and concurrent enrollment in FOD 261. (SCC)

FOD 261 - Career Development (2 cr)

The course emphasis is on using the assessment and credit award from FOD 260 to develop a plan to finish an Associate or Bachelor Degree. Prerequisite: Basic computer skills recommended. Permission of instructor and evidence of employment required and concurrent enrollment in FOD 260. (SCC)

FRENCH

FRCH& 121 - French I (5 cr)

FRCH& 121, 122 and 123 are parts of a beginning series designed to develop skills in reading, writing, speaking and listening to a basic level of proficiency. It enables the student to communicate basic ideas in French and understand the cultural context of the language through the study of the French-speaking regions around the world. FRCH& 121 is taught through an experiential methodology that entails the exclusive use of French in the classroom, emphasis on oral and written communicative skills, interpersonal exchange of ideas, interactive presentation of grammar, a multimedia approach and daily practice outside of class. Language laboratory work is an integral part of this language series. (SCC, SFCC)

FRCH& 122 - French II (5 cr)

FRCH& 121, 122 and 123 are parts of a beginning series designed to develop skills in reading, writing, speaking and listening to a basic level of proficiency. It enables the student to communicate basic ideas in French and understand the cultural context of the language through the study of the French-speaking regions around the world. FRCH& 121 is taught through an experiential methodology that entails the exclusive use of French in the classroom, emphasis on oral and written communicative skills, interpersonal exchange of ideas, interactive presentation of grammar, a multimedia approach and daily practice outside of class. Language laboratory work is an integral part of this language series. Prerequisite: FRCH& 121 or one year of high school French or permission of instructor. (SCC, SFCC)

FRCH& 123 - French III (5 cr)

FRCH& 121, 122 and 123 are parts of a beginning series designed to develop skills in reading, writing, speaking and listening to a basic level of proficiency. It enables the student to communicate basic ideas in French and understand the cultural context of the language through the study of the French-speaking regions around the world. FRCH& 121 is taught through an experiential methodology that entails the exclusive use of French in the classroom, emphasis on oral and written communicative skills, interpersonal exchange of ideas, interactive presentation of grammar, a multimedia approach and daily practice outside of class. Language laboratory work is an integral part of this language series. Prerequisite: FRCH& 122 or one and one-half years of high school French or permission of instructor. (SCC, SFCC)

FRCH& 221 - French IV (5 cr)

FRCH& 221, 222 and 223 are parts of an intensive intermediate-level language series designed to answer the needs of students coming from varying backgrounds. These students are studying French for a multitude of reasons and hope to review the grammar taught in our 100-level classes. FRCH& 221, 222 and 223 aim at the further development of the students' four skills (reading, writing, listening and speaking) up to an intermediate level of proficiency. Emphasis is on reviewing grammar in order to express oneself in writing or in conversations, and experiencing the language in its cultural contexts through the study of the French-speaking regions around the world. FRCH& 221, 222 and 223 are taught through an experiential methodology, which entails exclusive use of French in the classroom, emphasis on communicative skills, interactive and contextualized use of grammar through textbook materials, on-line exercises, audio-tapes, magazines and various other media, and daily practice outside of class. Prerequisite: FRCH& 123 or permission of instructor. (SFCC)

FRCH& 222 - French V (5 cr)

FRCH& 221, 222 and 223 are parts of an intensive intermediate-level language series designed to answer the needs of students coming from varying backgrounds. These students are studying French for a multitude of reasons and hope to review the grammar taught in our 100-level classes. FRCH& 221, 222 and 223 aim at the further development of the students' four skills (reading, writing, listening and speaking) up to an intermediate level of proficiency. Emphasis is on reviewing grammar in order to express oneself in writing or in conversations, and experiencing the language in its cultural contexts through the study of the French-speaking regions around the world. FRCH& 221, 222 and 223 are taught through an experiential methodology, which entails exclusive use of French in the classroom, emphasis on communicative skills, interactive and contextualized use of grammar through textbook materials, on-line exercises, audio-tapes, magazines and various other media, and daily practice outside of class. Prerequisite: FRCH& 221 or permission of instructor. (SFCC)

FRCH& 223 - French VI (5 cr)

FRCH& 221, 222 and 223 are parts of an intensive intermediate-level language series designed to answer the needs of students coming from varying backgrounds. These students are studying French for a multitude of reasons and hope to review the grammar taught in our 100-level classes. FRCH& 221, 222 and 223 aim at the further development of the students' four skills (reading, writing, listening and speaking) up to an intermediate level of proficiency. Emphasis is on reviewing grammar in order to express oneself in writing or in conversations, and experiencing the language in its cultural contexts through the study of the French-speaking regions around the world. FRCH& 221, 222 and 223 are taught through an experiential methodology, which entails exclusive use of French in the classroom, emphasis on communicative skills, interactive and contextualized use of grammar through textbook materials, on-line exercises, audio-tapes, magazines and various other media, and daily practice outside of class. Prerequisite: FRCH& 222 or permission of instructor. (SCC, SFCC)

FRCH 241 - Conversation and Culture (2 cr)

FRCH 241 is designed for students who wish to develop their French conversational skills up to an intermediate level, through class discussions and short oral presentations. At the first meeting, student participants will have the opportunity to design the course topic discussions based on, but not limited to, the following topics: Diversity of France, politics, economics, European Union, currency, family values, stereotypes, history, geography, media, French cultural and literary traditions, and current events. Use of the ILC is recommended. Prerequisite: FRCH& 123 or permission of instructor. (SFCC)

FIRE SCIENCE TECHNOLOGY

FS 100 - Orientation to Fire Science (2 cr)

An introductory class designed to provide students with the history and philosophy of fire science. Content areas to be covered in this course also include career orientation, employment requirements and fire personnel responsibilities. (SCC)

FS 105 - Principles of Hydraulics (4 cr)

Students are introduced to the fundamentals of fluids in motion and at rest and their applications to the fire service industry. (SCC)

FS 152 - Building Construction (3 cr)

This course covers the classifications of buildings and what constitutes a rated building. Fire and life safety devices required by the U.B.C. are emphasized. The installation of fire assemblies and appliances are introduced. (SCC)

FS 160 - Fire Tactics (3 cr)

This course introduces students to the basic principles of fire tactics and strategies, and provides students with the skills needed to safely and effectively supervise company-level fire ground operations. Principles of size-up and fire spread, hazard identification, fire attack methodology based on the principles of RECEO-VS, supervision and coordination of assigned resources, and fire ground safety are emphasized. (SCC)

FS 170 - Hazardous Materials I (3 cr)

Students study hazardous materials regulations; terminology; identification systems, shipping and storage containers; incident command systems and basic analysis; information resources; chemical protective clothing, and decontamination. (SCC)

FS 177 - Wildland Fire Operations (3 cr)

This course is designed to prepare the student to fight wildland fires. It includes information on safety practices and initial control strategies, and meets the NWCG requirements for S-130/S-190 and L-130. Prerequisite: Volunteer or career firefighter or acceptance by special permission. (SCC)

FS 211 - Introduction to Fire Science (4 cr)

This course introduces students to the basics of firefighting. Topics include safety, fire behavior, personal protective equipment, portable extinguishers, search and rescue, ropes and knots, hoses, ladders, and emergency vehicle accident prevention. Prerequisite: Successful completion of first year general education requirements and concurrent enrollment in FS 212. (SCC)

FS 212 - Fire Science Applications I (6 cr)

Practical applications using firefighting equipment including personal protective equipment, hoses, ladders and extinguishers are emphasized. Emergency vehicle accident prevention methods also are included. (SCC)

FS 221 - Intermediate Fire Science (4 cr)

This course provides a continuation of the concepts introduced in FS 211 with emphasis on the incident command system, forcible entry, ventilation, salvage, overhaul, fire cause determination, communications and water supply. Prerequisite: Successful completion of FS 211, 212 and concurrent enrollment in FS 222. (SCC)

FS 222 - Fire Science Applications II (6 cr)

Practical applications using the incident command system are emphasized in this course. Practical skills include forcible entry, ventilation, salvage, overhaul, fire cause determination, communications and water supply. Prerequisite: Successful completion of FS 211, 212 and concurrent enrollment in FS 221. (SCC)

FS 231 - Advanced Fire Science (4 cr)

This course provides a continuation of the concepts introduced in FS 211 and 221 with emphasis on fire streams, fire suppression, heavy-duty rescue, vehicle fires, wildland fires and fire prevention. Prerequisite: Successful completion of FS 221, 222 and concurrent enrollment in FS 232. (SCC)

FS 232 - Fire Science Applications III (6 cr)

Practical lab applications utilizing skills from FS 212 and 222 are emphasized. Fire streams, fire suppression techniques, heavy-duty rescue, vehicle fires, wildland fires and fire prevention also are emphasized. Prerequisite: Successful completion of FS 221, 222 and concurrent enrollment in FS 231. (SCC)

FS 233 - Professional Development (2 cr)

This course explores a variety of self-development activities that assist students in gaining employment after graduation. These activities include practice civil service examinations, both written and oral, in addition to exercises in professional demeanor as appropriate to fire fighters. This course is required in one of the student's last two quarters prior to graduation. (SCC)

FS 266 - Cooperative Education Seminar (1-2 cr)

For course description, see Cooperative Education. (SCC)

FS 267 - Cooperative Education Work Experience (1-18 cr) For course description, see Cooperative Education. (SCC)

FUNDAMENTALS OF SCIENCE

FSCI 101 - Interdisciplinary Science (5 cr)

This is the first of a three-quarter sequence of classes. An integrated science course that involves physics, astronomy, and geology. Climate and global change will be used as a theme to develop basic concepts in science, such as measurement, analysis of data, hypothesis generation, and testing. Students will actively be involved in class as they collect and analyze data, and state relevant facts pertaining to a selection of topics involving concepts in physics, astronomy, and geology. Students will maintain a laboratory notebook and formally present data to peers throughout the course. Prerequisite: 2.0 or better in MATH 099. (SFCC)

GENERAL STUDIES

GENST 101 - Success in Math and Placement (2 cr)

Learning strategies for studying, preparing for and taking the college MMT (My Math Test) will be applied in a supportive atmosphere with peer tutors and campus resources available. This 2 credit course provides students with opportunity to prepare for successful Math Placement testing in a group learning/lab setting. Students will apply basic computer-based test preparation and test-taking skills, review fundamental math skills, address ways to overcome Math anxiety, and develop tools and strategies to be successful in college Math courses. (SFCC)

GENST 104 - The Internet and the Art of Research (1-3 cr) An introduction to the Internet and its research potential is demonstrated. Students use Internet-based resources to locate books, periodicals and other information. Efficient searching techniques and strategies to evaluate information are stressed. (SFCC)

GENST 105 - Prior Learning Portfolio Development (2 cr)

A course designed to instruct students in methods utilized to summarize and document prior learning experiences. Students describe skills, competencies and areas of knowledge that may have been attained outside of a traditional classroom environment. Prerequisite: Minimum ASSET score of 40 reading and writing. (SCC, SFCC)

GENST 106 - College Success (2-3 cr)

This course provides an opportunity for students to learn about services and strategies to help them become successful college students. The overall goal is to increase the likelihood that the students' year(s) at SFCC/SCC is successful, both academically and socially. It is designed for entering students and other students interested in becoming more effective college students. (SCC, SFCC)

GENST 107 - First Year Introduction (1 cr)

This course provides new SFCC students with a comprehensive introduction to college. Through seminars, learning modules and sample classes, students are expected to develop the fundamental skills and attitudes necessary for success in college. FYI helps students connect with other students, faculty and staff. Students learn about campus resources and develop an educational plan. (SFCC)

GENST 108 - Learning for the 21st Century (5 cr)

Emphasis is on building the skills and techniques for successful life-long learning and identifying personal learning styles and strengths that facilitate learning in an on-line environment. Through a quarter-long research project on a global issue, participants examine various strategies for locating, evaluating and applying information resources in the research process with attention to information policy issues like censorship and freedom of information. (SCC, SFCC)

GENST 109 - Applied Critical Thinking (3 cr)

In this course, learners gain mastery of the following fundamental thinking skills competencies: Assumption, inferences, implications, conclusions, questions at issue, points of view, concepts and purpose of thinking consequences. Learners master the ability to assess their thinking by using the following intellectual standards: Clarity, specificity, relevance, logic, significance, accuracy, preciseness, consistency, completeness, depth and broadness. Learners practice reasoning abilities and begin developing intellectual traits. (SFCC)

GENST 111 - Gateway to College (2 cr)

Gateway to College -- 2 Credit Hours. This course is designated to help students develop and reinforce the skills, abilities, and behaviors that promote academic and personal success. It is required for entering Gateway to College students interested in transitioning effectively to their new college environment. Prerequisite: Enrollment in the Gateway to College program. (SFCC)

GENST 112 - Introduction to Online Learning (1 cr)

This course introduces the CCS elearning classroom to students with the goal of creating successful online learners. This course provides an introduction to elearning expectations; elearning basic skills and strategies; and elearning resources which support student success. This course is designed for entering students and other students interested in becoming more effective online learners. (SFCC, SCC)

GENST 114 - Thriving In College (2 cr)

Learn about college life! This course for new college students teaches success strategies by helping students to become familiar with the campus, to discover resources available to assist them in their collegiate journey, and to connect them with their peers. Students will learn how to interact effectively with instructors and will gain a solid foundation in study skills that are crucial for academic achievement. The class is intended to be taken concurrently with a 5-credit content area course. (SFCC)

GENST 154 - Introduction to Service Learning (2-5 cr)

This class combines an academic study of the foundations of the contemporary movement toward service learning with direct experience of community outreach. By building on learning through service to an area of local community need, students explore their own assumptions, values, questions, and beliefs regarding some of the key issues in social philosophy and ethics and democratic citizenship. Through students' community service experience, lecture, reading and research, students become familiar with individual and group aspects of human behavior. (SFCC)

GENST 203 - Prior Learning Assessment Portfolio Development (1 cr)

This class explores the use of a portfolio to document learning experiences. Students develop a personal and/or professional portfolio resource notebook by using their choice of media. Prerequisite: ENGL& 101 or above or 80 percent pass of COMPASS testing. (SFCC)

GENST 204 - Tutoring Writing (2 cr)

This course prepares students for effective work in tutoring a wide array of writers and writing. Students will develop a solid foundation for working with student writers and acquire a rich understanding of the theories, practices, and challenges of tutoring writing. Prerequisite: ENGL& 101 with a grade point of 3.5 or higher or permission of instructor. (SFCC, SCC)

GENST 266 - Cooperative Education Seminar (1-2 cr)

For course description, see Cooperative Education. (SFCC)

GENST 267 - Cooperative Education Work Experience (1-18 cr)

For course description, see Cooperative Education. (SFCC)

GENST 280 - Honors Seminar I (1 cr)

SFCC Honors Seminars offer a rigorous course of study for academically talented students. Exceptional students have the opportunity to explore topics that highlight each Instructor's training and expertise. Enrollment in these seminars is by invitation only. Topic(s) for each term will be posted in the invitation. Students may take other Honors Seminar courses for a maximum of 5 credits. Prerequisite: Permission of honors coordinator with 3.5 GPA or above usually required. (SFCC)

GENST 281 - Honors Seminar II (1 cr)

SFCC Honors Seminars offer a rigorous course of study for academically talented students. Exceptional students have the opportunity to explore topics that highlight each Instructor's training and expertise. Enrollment in these seminars is by invitation only. Topic(s) for each term will be posted in the invitation. Students may take other Honors Seminar courses for a maximum of 5 credits. Prerequisite: Permission of honors coordinator with 3.5 GPA or above. (SFCC)

GENST 282 - Honors Seminar III (1 cr)

SFCC Honors Seminars offer a rigorous course of study for academically talented students. Exceptional students have the opportunity to explore topics that highlight each Instructor's training and expertise. Enrollment in these seminars is by invitation only. Topic(s) for each term will be posted in the invitation. Students may take other Honors Seminar courses for a maximum of 5 credits. Prerequisite: Permission of honors coordinator with 3.5 GPA or above usually required. (SFCC)

GENST 283 - Honors Seminar IV (1 cr)

SFCC Honors Seminars offer a rigorous course of study for academically talented students. Exceptional students have the opportunity to explore topics that highlight each Instructor's training and expertise. Enrollment in these seminars is by invitation only. Topic(s) for each term will be posted in the invitation. Students may take other Honors Seminar courses for a maximum of 5 credits. Prerequisite: Permission of honors coordinator with 3.5 GPA or above usually required. (SFCC)

GENST 291 - Educational Tour (1-5 cr)

An educational tour sponsored by one or more departments offering students an opportunity to explore a particular subject off campus. The purpose of the trip is to broaden a student's understanding of material covered in the classroom or to expose the student to cultural experiences not available on campus. The tours may be to either domestic or foreign locations. (SFCC)

GENST 292 - Educational Tour (1-5 cr)

An educational tour sponsored by one or more departments offering students an opportunity to explore a particular subject off campus. The purpose of the trip is to broaden a student's understanding of material covered in the classroom or to expose the student to cultural experiences not available on campus. The tours may be to either domestic or foreign locations. (SFCC)

GENST 293 - Educational Tour (1-5 cr)

An educational tour sponsored by one or more departments offering students an opportunity to explore a particular subject off campus. The purpose of the trip is to broaden a student's understanding of material covered in the classroom or to expose the student to cultural experiences not available on campus. The tours may be to either domestic or foreign locations. (SFCC)

GEOGRAPHY

GEOG 101 - Introduction to Geography (5 cr)

An introduction to human and physical geography including mankind's reciprocal relationship with environmental concerns, world place geography, geomorphology and economic geography. Optional field trips included to assist students in better understanding course content. (SCC, SFCC)

GEOG 230 - World Regional Geography (5 cr)

A survey of world geographical relationships. Includes an examination of the distribution of selected physical and human phenomenon and the processes responsible for the distributions and varying interrelationships from place to place between humans and their environment. (SCC, SFCC)

GEOG 260 - The Violent Earth (5 cr)

Students are offered a descriptive and interpretive examination of the influence and relationship of man with the natural hazards of the earth, including identification, analysis, distribution and geographic patterning of the following: Hurricanes, water spouts, disease, tornadoes, wind shear, tsunamis, tides, river tides, volcanoes, glaciers, earthquakes, quick clay (spontaneous liquification), landslides, floods, droughts and lightning. (SCC, SFCC)

GEOLOGY

GEOL& 100 - Survey of Earth Science (5 cr)

This course provides a survey of Earth including topics on rock and mineral characteristics, natural hazards, surface and groundwater environments, marine and continental environments, resources, and landforms. This is a non-lab physical science course, and credit will not be granted for both GEOL& 100 and GEOL& 101. (SCC, SFCC)

GEOL& 101 - Intro Physical Geology (5 cr)

An introductory course in geology designed to acquaint beginning geology students with the importance of geology and minerals in their everyday lives through the study of the general concepts of geology, plate tectonics, earthquakes, mountain building, formation of continents, materials on earth, erosional processes and patterns, underground water, glaciation, and shoreline formations. laboratory covers mineral and rock identification and map interpretation. Credit will not be granted for both GEOL& 101 and GEOL& 100. (SCC, SFCC)

GEOL 104 - Fundamentals of Geology (5 cr)

Fundamentals of Geology includes a broad range of geological topics including: 1) the identification, use and sustainability of Earth materials, 2) description of internal Earth processes that drive tectonic plate motion and the occurrence of mountains and earthquakes, 3) the occurrence of Earth's surficial processes and surficial features, and 4) how geologists interpret Earth's past. These topics will be understood alone, as well as in the context of natural resources and natural hazards to convey a sense of meaning to the individual and his/her place in society. This course includes a lab and is not intended for geology majors. (SFCC)

GEOL 116 - Environmental Geology (5 cr)

An introduction to environmental geology including geologic processes and land forms. An emphasis on practical applications using case history studies involving engineering and environmental problems as they relate to geologic settings. (SCC, SFCC)

GEOL 201 - The Earth Through Time (5 cr)

The course is an overview of earth's geologic history through time. Topics of discussion include the geologic formation of earth and its rock types, as well as the evolution of lifeforms through time. The effects of plate tectonics on paleoclimates, paleogeographies, and evolutionary patterns for the major continental and marine ecosystems are considered. Meets A.A. degree lab science requirement. Prerequisite: GEOL& 101, 100 or 1 year of high school science. (SCC)

GEOL 210 - Pacific Northwest Geology (5 cr)

An overview of the geologic history of the Pacific Northwest. Emphasis is on the plate tectonic relationships between the various geologic regions of the Northwest via hands-on interpretations of rocks, geologic maps and field observations. Prerequisite: GEOL& 101 (formerly GEOL 101) or permission of instructor. (SCC)

GOVERNMENT, STUDENT

GOVT 191 - Student Senate (1 cr)

The responsibilities of the decision-making process of student government with emphasis on human relations, group interaction, developing the human potential of the individual, and improving communication skills and decision-making abilities. Open to all students interested in the student government process. (SCC, SFCC)

GOVT 192 - Student Senate (1 cr)

The responsibilities of the decision-making process of student government with emphasis on human relations, group interaction, developing the human potential of the individual, and improving communication skills and decision-making abilities. Open to all students interested in the student government process. (SFCC)

GOVT 193 - Student Senate (1 cr)

The responsibilities of the decision-making process of student government with emphasis on human relations, group interaction, developing the human potential of the individual, and improving communication skills and decision-making abilities. Open to all students interested in the student government process. (SCC, SFCC)

GOVT 195 - Activities Board (1 cr)

Responsibilities of program management through representative student government; emphasis on program development for the college, group interaction, communication skills and decision-making abilities. For members of student clubs and organizations and students interested in program development and scheduling management. (SCC, SFCC)

GOVT 196 - Activities Board (1 cr)

Responsibilities of program management through representative student government; emphasis on program development for the college, group interaction, communication skills and decision-making abilities. For members of student clubs and organizations and students interested in program development and scheduling management. (SFCC)

GOVT 197 - Activities Board (1 cr)

Responsibilities of program management through representative student government; emphasis on program development for the college, group interaction, communication skills and decision-making abilities. For members of student clubs and organizations and students interested in program development and scheduling management. (SCC, SFCC)

GRAPHIC DESIGN

GRDSN 101 - Design Process I (4 cr)

This is a basic introduction course presenting the fundamentals of design, visual communication and conceptualization. The primary focus is on typography, color and composition. Activities focus on research and problem solving with an emphasis on idea generation and refinement using thumbnail and rough layouts. Students apply fundamental design and communication skills to projects in GRDSN 103. Prerequisite: Compass Reading 80 or higher; ASSETT Reading 40 or higher; or permission of the instructor. (SFCC)

GRDSN 102 - Design Technology I (3 cr)

This course is a basic introduction to the technology platform used in the design profession. Emphasis is on the operating system(s), computer operations, file types, format and management. Students learn fundamental software skills necessary to complete design projects. Content includes operation of page layout, drawing and scanning software applications. Prerequisite: Assessment reading score on the Compass of 80 or above or an ASSETT reading score of 40 or above and concurrent enrollment in GRDSN 101 or permission of instructor. (SFCC)

GRDSN 103 - Design Projects I (1 cr)

Students in this course design and produce basic-level design projects. Projects are assigned, assessed at midpoint and critique when finished. The design process, technology and lab time for these projects are delivered in GRDSN 101, 102. Prerequisite: A COMPASS reading assessment score of 80 or above or an ASSET reading score of 40 or above and concurrent enrollment in GRDSN 101, 102, 105 or permission of instructor. (SFCC)

GRDSN 105 - Drawing for Graphic Designers (3 cr)

This course offers students an introduction to drawing as a graphic designer. Students learn to draw basic forms for thumbnails and roughs that can be applied to other graphic design courses. Techniques and tools for drawing shape, value, plane and volume are explored through gesture, contour and other drawing styles. Composition and drawing type are an integral part of the course. (SFCC)

GRDSN 109 - History of Design (5 cr)

This course focuses on major design movements as they relate to visual communication. Beginning with the invention of writing and continuing to present- day key ideas, social/political/cultural developments and technologies are examined. Through observations and comparisons, the course illustrates the relationships between various design disciplines. This course requires research, writing and presentation of exploring visual communications role in society and popular culture. Prerequisite: A COMPASS reading assessment score of 80 or above or an ASSET reading score of 40 or above or permission of instructor. (SFCC)

GRDSN 111 - Design Process II (4 cr)

This course expands on the fundamentals of design, visual communication and conceptualization introduced in GRDSN 101. Students demonstrate skills at a higher level of performance. In addition to typography, color and composition, students are engaged in problem-solving and critical thinking activities in order to solve fundamental design problems. Prerequisite: GRDSN 101, 102 or permission of instructor. (SFCC)

GRDSN 112 - Design Technology II (3 cr)

This intermediate-level course focuses on the technology platform used in the design profession. Emphasis is on computer graphics software applications, type formatting and appropriate file construction. Students learn fundamental and intermediate software skills necessary to complete projects in GRDSN 113. In addition to page layout, drawing and software applications, students focus on fundamental photo manipulation and three-dimensional design software. Prerequisite: GRDSN 102 or permission of instructor. (SFCC)

GRDSN 113 - Design Projects II (1 cr)

In this course, students design and produce basic-level design projects with more complexity than in previous projects. Projects are assigned, assessed at midpoint and critiqued when finished. The design process, technology and lab time for these projects are delivered in GRDSN 111, 112. Prerequisite: GRDSN 101, 102, 103 and concurrent enrollment in GRDSN 111, 112, 115 or permission of instructor. (SFCC)

GRDSN 115 - Drawing for Communication (2 cr)

This course builds on the skills obtained in GRDSN 105. Students expand their knowledge on techniques for illustration, draw in perspective, and learn about the picture plane, theme building and visual analogy. Color and its effect on composition and the target market are explored. Professional hand skills for presentation are included. Prerequisite: GRDSN 105 or permission of instructor. (SFCC)

GRDSN 121 - Design Process III (4 cr)

In this course, students apply the design process to the print, web and multimedia industries. Students engage in intermediate-level design, communication, problem-solving and conceptualization activities. In addition to exploring strategies for communicating more complex information, students are engaged in creating concepts which communicate ideas with clarity, depth and uniqueness. Prerequisite: GRDSN 111 and concurrent enrollment in GRDSN 122. (SFCC)

GRDSN 122 - Design Technology III (3 cr)

This course is a survey of design technology as it applies to the production of design work in print, web and multimedia. Emphasis is on file construction, file formats and software used in 2-D, 3-D and animated graphics. Students are introduced to the Postscript imaging process and HTML as well as web and multimedia authoring software. Prerequisite: GRDSN 112 and concurrent enrollment in GRDSN 121. (SFCC)

GRDSN 123 - Design Projects III (1 cr)

Students design and produce basic-level design projects with more complexity than GRDSN 113. Projects are assigned, assessed at midpoint and critiqued when finished. The design process, technology and lab time for these projects are delivered in GRDSN 121, 122. Prerequisite: GRDSN 103 or permission of instructor and concurrent enrollment in GRDSN 121, 122 or permission of instructor. (SFCC)

GRDSN 125 - Computer Drawing (3 cr)

Students learn to execute drawings using vector and raster imaging often found as illustrations in print and web design. Software programs are used to show value, color and texture of subject matter. Use of an electronic pen tool is explored in place of the mouse to mimic traditional tools that show line quality and shading. In addition, students use a digital camera to produce photographs for compositions and learn how to show perspective through the software programs available. Prerequisite: GRDSN 105 or permission of instructor. (SFCC)

GRDSN 126 - Web Production (2 cr)

This course is designed to explore the visual aspects of designing and implementing documents for the World Wide Web. It focuses on evaluating the aesthetics and readability of existing Web pages in order to formulate effective and appropriate approaches to design for new pages. Students create, scan and manipulate graphic images, as well as integrate final graphics files into effective page designs which are appropriate for web use. Prerequisite: GRDSN 158 or permission of instructor. (SFCC)

GRDSN 129 - Digital Studio (2 cr)

This course explores creative uses of the application "Photoshop" by using the tools that students might employ to enhance their artwork and the ability to submit work to a potential employer or gallery or jury show. Through the use of digital imaging, filters, and image manipulation, students make prints using inkjet printers on a variety of substrates. Presentation and submission for juried exhibitions is discussed. Photos will be taken for use in projects along with student artwork created in other disciplines. (SFCC)

GRDSN 142 - Print Production (3 cr)

This is an intermediate course in computer graphics and printing technology. Projects involve using industry standard computer applications to create and edit pixel and vector images, create page layouts, and prepare files for printing. Emphasized are color management, printing technology, file preparation for multiple color printing, Acrobat PDF workflow, raster image processing, cross-application data exchange and file troubleshooting. Prerequisite: GRDSN 122 or permission of instructor. (SFCC)

GRDSN 151 - Typography and Layout (3 cr)

This course introduces students to the history, nomenclature and practical application of typography. Projects range from simple typographic compositions to complex multi-page documents in print and digital media. In addition to conventional type formatting, students will explore creative solutions using type as expressive visual form. Prerequisite: GRDSN 101, 102 or permission of instructor. (SFCC)

GRDSN 156 - Illustrator I (2 cr)

This is a self-paced, competency-based, introductory course to illustrator software for Macintosh computers. Through reference materials, tutorial exercises and projects, students use software tools and menu commands to trace, draw and manipulate Bezier curves, and create illustrations. Students manipulate graphics and typographic forms to create final drawing compositions. Students also control and manipulate visual attributes and work with several color models to create, mix, and apply colors and tints. (SFCC)

GRDSN 158 - PhotoShop I (2 cr)

This is a self-paced competency-based introductory course to PhotoShop software for Macintosh computers. Through reference materials, tutorial exercises and projects, students use software tools and menu commands to evaluate and control color characteristics of digitized photographic images. Students also combine and manipulate images to create unique photo composites, as well as work with several color models and a variety of file formats. (SFCC)

GRDSN 162 - MacIntosh OS X (2 cr)

This is a self-paced, competency-based computer course designed to provide students with knowledge and hands-on experience with Macintosh Operating System Ten. Students receive information on functions such as the desktop, using Internet browsers, e-mail and printing. (SFCC)

GRDSN 163 - InDesign I (2 cr)

This self-paced competency based hands-on computer course provides students with knowledge and experience with the InDesign page layout program. The course includes working with documents, text, styles, tables, graphic elements, and color. (SFCC)

GRDSN 164 - Illustrator II (2 cr)

This is a self-paced, competency-based, advanced course for Adobe Illustrator software for Macintosh computers. Through reference materials, tutorial exercises and projects, students use software tools and menu commands. They use advanced text techniques, selection techniques and transformation techniques to create vector drawings. They also learn to prepare graphics for the Web. (SFCC)

GRDSN 166 - PhotoShop II (2 cr)

This course offers self-paced, competency-based, advanced instruction in PhotoShop software for Macintosh computers. Through reference materials, tutorial exercises and projects, students use software tools and menu commands to select color mode, correct color, apply masks and channels, create complex layers, retouch images, create patterns and textures, and add special effects. (SFCC)

GRDSN 167 - Fireworks (2 cr)

This self-paced competency based hands-on computer course provides students with knowledge and experience with the Fireworks Web design program. Students work with text, bitmaps, image retouching, layers, animated GIFs, navigation bars and pop-up menus. (SFCC)

GRDSN 168 - InDesign II (2 cr)

This self-paced competency based hands-on computer course provides students with knowledge and experience with the InDesign page layout program. The course includes working with long documents, multiple documents, advanced typesetting, managing output, PDF, and HTML. (SFCC)

GRDSN 171 - Animate 1 (2 cr)

This course offers a self-paced, competency-based introduction to flash software for Macintosh computers. Through reference materials, tutorial exercises and projects, students use software tools and menu commands to produce high impact, vector-based web sites. Students use Flash to create animations and interfaces, adding sound, motions and interactivity. (SFCC)

GRDSN 172 - Dreamweaver (2 cr)

This course offers a self-paced, competency-based introduction to Dreamweaver software for Macintosh computers. Through reference materials, tutorial exercises and projects, students use software tools and menu commands to create exciting web sites using HTML. Students also use design tools, and import and edit images and documents. (SFCC)

GRDSN 173 - Flash II (2 cr)

This is a self-paced competency-based course in Flash software for Macintosh computers. Through reference materials, tutorial exercises and projects, students use software tools and menu commands to create web animations that include sound and video. Students learn to apply behaviors to their animations. They also learn to use Flash with other applications such as Freehand, Photoshop and Fireworks. (SFCC)

GRDSN 174 - Dreamweaver II (2 cr)

This is a self-paced competency-based course in Dreamweaver software for Macintosh computers. Through reference materials, tutorial exercises and projects, students use software tools and menu commands to create cascading style sheets, JavaScript behaviors and animations. Students learn to manage a live web site. (SFCC)

GRDSN 175 - After Effects (2 cr)

This is a self-paced competency-based course in After Effects software for Macintosh computers. Through reference materials, tutorial exercises and projects, students use software tools and menu commands to create animations that include sound and optimize motion graphics for film, video and the web. Students produce and apply behaviors to their animations, special effects and 3D layers. Students also use After Effects with applications such as Illustrator, Photoshop and Fireworks. (SFCC)

GRDSN 176 - Introduction to Page Design (2 cr)

This course introduces students to the fundamentals of newspaper, magazine and web design for news publications. The course emphasizes newspaper page design as the basis for all news-driven print media, such as magazines, daily newspapers, and alt-weekly newspapers. Students will learn to present information in a clear, concise manner. Prerequisite: GRDSN 163 or permission of instructor. (SFCC)

GRDSN 181 - Web Development I (4 cr)

Students are introduced to design and construction of web pages using HTML (Hypertext Markup Language), CSS (Cascading Style Sheets) and JavaScript. Students learn standards-based web development. Cascading style sheets are used in designing and structuring effective and accessible web pages for browsers and mobile devices. (SFCC)

GRDSN 182 - Web Development II (3 cr)

This intermediate course builds off of the Web Development I course. Students apply server / client side programming to create dynamic web pages. Students design and build web / mobile web projects using JavaScript and other scripting languages. Prerequisite: GRDSN 181 or permission of instructor. (SFCC)

GRDSN 200 - Graphic Design Workshop (1-5 cr)

A course offered when unique opportunities or needs arise to instruct in areas not covered by existing courses and/or to quickly respond to changing conditions in the graphic design industry. (SFCC)

GRDSN 201 - Design Process IV (4 cr)

In this course, students compare the design process as it applies to a wide range of computer-generated imagery. Students engage in intermediate-level design, communication, problem-solving and conceptualizing activities. Prerequisite: GRDSN 121 and concurrent enrollment in GRDSN 202 or permission of instructor. (SFCC)

GRDSN 202 - Design Technology IV (3 cr)

Students explore the production aspects of realistic graphic design projects and the technical issues that develop within their own designs. In conjunction with GRDSN 203, students develop production techniques and solutions to various media. Prerequisite: GRDSN 122 and concurrent enrollment in GRDSN 201 or permission of instructor. (SFCC)

GRDSN 203 - Design Projects IV (1 cr)

This course consists of intermediate-level design, industry-driven projects. Skills necessary to complete these projects are directly linked to GRDSN 201 and 202. Focus is on design principles which relate to various digital media applications. Prerequisite: GRDSN 123 or permission of instructor and concurrent enrollment in GRDSN 201, 204 or permission of instructor. (SFCC)

GRDSN 204 - Design Lab IV (2 cr)

Students perform the computer production of projects assigned in GRDSN 203. Focus is on demonstrating efficient and effective use of technology in the design production process. Students are assessed and graded on demonstrating self-directed learning, demonstrating effective time management and positive work ethic. This lab course is facilitated by graphic design faculty. Prerequisite: Permission of instructor and concurrent enrollment in GRDSN 201, 202, 203. (SFCC)

GRDSN 211 - Design Process V (4 cr)

Working with real-world design problems, students apply their expertise in developing design solutions for various media. Emphasis is on organizing information, typography and imagery to create clear, creative design solutions. Prerequisite: GRDSN 201 or permission of instructor. (SFCC)

GRDSN 212 - Design Technology V (3 cr)

A variety of technical and material processes driven by projects developed in GRDSN 213 are explored. This course strengthens the students' abilities to problem solve and develop technical solutions to various media production applications. Students use a variety of computer software applications which are determined by appropriate media delivery systems. Prerequisite: GRDSN 202 or permission of instructor. (SFCC)

GRDSN 213 - Design Projects V (1 cr)

From concept to final presentation, students in this course apply advanced-level design principles to real-world projects. Linked to GRDSN 211 and GRDSN 212, assignments require strong visual concepts. This course is designed to increase awareness of advanced graphic design projects. Prerequisite: GRDSN 201, 202, 203, 204 or GRDSN 126, 238 and concurrent enrollment in GRDSN 211, 212, 214 or permission of instructor. (SFCC)

GRDSN 214 - Design Lab V (2 cr)

Students perform the computer production of projects assigned in GRDSN 213. Scheduling and coordinating multiple tasks, as well as meeting deadlines, is emphasized. Students are assessed and graded on demonstrating self-directed learning, demonstrating effective time management and positive work ethic. This lab course is facilitated by graphic design faculty. Prerequisite: GRDSN 201, 202, 203, 204 or permission of the instructor and concurrent enrollment in GRDSN 211, 212, 213. (SFCC)

GRDSN 215 - Web Process V (3 cr)

Working with real-world design problems, students apply their expertise in developing design solutions for the web. Emphasis is on organizing information, typography and imagery to create clear, creative design solutions. Through problem-solving activities, students develop an increased awareness of web design principles and skills. Prerequisite: GRDSN 121, 122, 123 and concurrent enrollment in GRDSN 216, 217, 218. (SFCC)

GRDSN 216 - Web Technology V (3 cr)

A variety of technical and material processes driven by projects developed in GRDSN 217 are explored. This course strengthens the students' abilities to problem solve and develop technical solutions to various web production applications. Students use a variety of computer software applications which are determined by appropriate web delivery systems. Prerequisite: GRDSN 121, 122, 123 and concurrent enrollment in GRDSN 215, 217, 218. (SFCC)

GRDSN 217 - Web Projects V (1 cr)

From concept to final presentation, students in this course apply advanced-level design principles to real-world projects. Linked to GRDSN 215 and 218, assignments require strong visual concepts. This course is designed to increase awareness of advanced web design projects. Prerequisite: GRDSN 121, 122, 123 and concurrent enrollment in GRDSN 215, 216, 218. (SFCC)

GRDSN 218 - Web Lab V (2 cr)

Students perform the computer production of projects assigned in GRDSN 217. Scheduling and coordinating multiple tasks, as well as meeting deadlines, are emphasized. Students are assessed and graded on demonstrating self-directed learning, effective time management and a positive work ethic. Graphic design faculty facilitate this lab course. Prerequisite: GRDSN 121, 122, 123 and concurrent enrollment in GRDSN 215, 216, 217. (SFCC)

GRDSN 221 - Design Process VI (4 cr)

This course prepares students for entrance into the workforce. Students self-assess projects and identify weak points in their design projects in order to be more competitive when entering the job market. Students redesign work to bring it up to professional portfolio standards. In addition, students create new portfolio projects. Prerequisite: GRDSN 212 or permission of instructor. (SFCC)

GRDSN 223 - Design Portfolio (3 cr)

This course prepares student for entry-level employability. Students create a resume, cover letter, personal brand and a professional portfolio of their best work. Additionally, students create an multi-media marketing campaign, promoting their qualifications to design industry employers. Prerequisite: GRDSN 211 or permission of instructor. (SFCC)

GRDSN 224 - Design Lab VI (2 cr)

Students produce final design pieces to assemble into a portfolio. The focus of the lab activities is accelerating the work pace to meet the kinds of deadlines experienced in industry. Students are assessed and graded on demonstrating self-directed learning, demonstrating effective time management and positive work ethic. Prerequisite: GRDSN 214 or permission of instructor and concurrent enrollment in GRDSN 221, 223 or permission of instructor. (SFCC)

GRDSN 225 - Web Process VI (3 cr)

This course prepares students for entrance into the work force. Students address employment opportunities, self-assess projects and identify weak points in their portfolios in order to be competitive when entering the job market. In addition to assembling a portfolio, students gain practice in job interviewing, resume preparation and professional job application procedures. Prerequisite: GRDSN 215, 216, 217, 218 and concurrent enrollment in GRDSN 226, 227. (SFCC)

GRDSN 226 - Web Projects VI (2 cr)

Students design and produce projects for their portfolios in this course. In addition, earlier student work is assessed and revised to meet portfolio standards. Projects are assigned, assessed at midpoint and critiqued when finished. The design process and lab time for these projects are delivered in GRDSN 225 and 227. Prerequisite: GRDSN 215, 216, 217, 218 and concurrent enrollment in GRDSN 225, 227. (SFCC)

GRDSN 227 - Web Lab VI (2 cr)

Students produce final design pieces to assemble into a portfolio. The focus of the lab activities is accelerating the work pace to meet the kinds of deadlines experienced in industry. Students are assessed and graded on demonstrating self-directed learning, effective time management and a positive work ethic. Prerequisite: GRDSN 215, 216, 217, 218 and concurrent enrollment in GRDSN 225, 226. (SFCC)

GRDSN 235 - Multimedia I (3 cr)

Students learn to create interactive media at an introductory level. Students learn design and technical skills necessary to create and combine text, graphics, video and audio for digital distribution. Prerequisite: GRDSN 121 or permission of instructor. (SFCC)

GRDSN 236 - Multimedia II (3 cr)

Students learn to create interactive media at an intermediate level. Students learn design and technical skills necessary to create and combine text, graphics, video and audio for digital distribution. Prerequisite: GRDSN 235 or permission of instructor. (SFCC)

GRDSN 237 - Multimedia III (3 cr)

Students learn to create interactive media at an advanced level. Students learn design and technical skills necessary to create and combine text, graphics, video and audio for digital distribution. Prerequisite: GRDSN 236 or permission of instructor. (SFCC)

GRDSN 238 - 3-D Modeling and Animation I (3 cr)

This course is a basic introduction to the field of three-dimensional modeling and animation. Students learn to create simple three-dimensional objects on the computer and animate them as Quicktime movies. Emphasis is on the analysis of perspective, three-dimensional space, lighting, cameras and texture mapping. (SFCC)

GRDSN 239 - 3-D Modeling and Animation II (3 cr)

This is an intermediate-level course in three-dimensional modeling and animation. Students learn to create more complex three-dimensional objects on the computer and animate them as Quicktime or VRML movies. Emphasis is on intricate lighting, camera and texture creation techniques. Prerequisite: GRDSN 238 or permission of instructor. (SFCC)

GRDSN 240 - 3-D Modeling and Animation III (3 cr)

This is an advanced-level course in three-dimensional modeling and animation. Students learn to create complex three-dimensional objects on the computer and animate them as Quicktime or VRML movies. Prerequisite: GRDSN 239 or permission of instructor. (SFCC)

GRDSN 266 - Cooperative Education Seminar (1-2 cr)

For course description, see Cooperative Education. (SFCC)

GRDSN 267 - Cooperative Education Work Experience (1-18 cr)

For course description, see Cooperative Education. (SFCC)

GUIDANCE

GUID 100 - College Orientation (1-2 cr)

This course is designed to assist the incoming student make the transition to college life. It provides a number of tools necessary to succeed in college-resources, processes and procedures, career exploration and information, assertiveness training, and college survival skills-as well as explain the many services and activities open to all students. Grading option: Pass/Fail. (SCC, SFCC)

GUID 101 - Career Planning (2-5 cr)

This course incorporates aptitude, interest, personality and motivational surveys with classroom activities to promote self-awareness. Analysis of the organization of the working world and use of research materials is combined with decision-making skills to aid the student in the selection of a career. Course content varies depending on the number of credits chosen. (SCC, SFCC)

GUID 102 - Strategies for Success (2 cr)

Students learn specific skills to increase their success in college and help them achieve their academic and professional goals. Students create a "tool kit" incorporating learning techniques, study skills, test taking strategies, time management, campus resources, and communication skills among others. Students also develop an educational plan to assist them in selecting and completing a program of study at the community college. (SCC)

HEALTH EDUCATION

HED 103 - Steps to Success in Health Careers (4 cr)

This course provides students with a key to understanding the necessary components for success in a health career introducing various options available with emphasis on necessary abilities to assure success in the education aspects of the profession. Strategies to build professional attitudes, self esteem, ethical behavior and communications skills are presented. (SCC)

HED 104 - Medical Terminology and Anatomy (5 cr)

Students are introduced to the unique language of medicine emphasizing basic medical word structure and commonly used clinical terms. An overview of normal anatomy and anatomic terms is accomplished prior to a study of common diseases and disorders of the human body with a system-by-system approach. (SCC)

HED 105 - Medical Terminology and Anatomy (5 cr)

This course emphasizes the unique language of medicine, normal anatomy and function, and disease and disorders of the body with a system-by-system approach. Prerequisite: HED 104 or permission of instructor. (SCC)

HED 106 - Disease Processes (5 cr)

Students study common diseases and conditions including prevention etiology, signs and symptoms, diagnostic and treatment modalities, prognoses, and the use of medical references for research and verification. Prerequisite: HED 104 and 105 or permission of instructor. (SCC)

HED 108 - Human Anatomy (5 cr)

Students study the structure of the human body systems: Integumentary, special senses, skeletal, muscular, respiratory, hemopoietic, cardiovascular, lymphatic, digestive, urinary, reproductive, endocrine and nervous systems. (SCC)

HED 109 - Human Physiology and Disease (5 cr)

Students study functions, related conditions and diseases of body systems. Prerequisite: HED 108 or permission of instructor. (SCC)

HED 121 - Cultural Diversity in Health Care (1 cr)

This course provides a foundation for applications of cultural concepts in the health care setting. Considerations are given to the impact of biopsychosocial, ethical, legal, spiritual and cultural influences on the need to promote, maintain and restore health of the client/family unit. Prerequisite: Permission of instructor or concurrent enrollment in a health care program. (SCC)

HED 125 - Medical Terminology (5 cr)

This course introduces the roots, prefixes and suffixes comprising the structure of medical terms associated with all body systems with emphasis on medical eponyms, abbreviations and the correct spelling of all terms. (SCC)

HED 129 - Pathophysiology (5 cr)

Students study various disease causing processes exerting an effect on normal physiological function of musculoskeletal, respiratory, circulatory, digestive, urinary and nervous systems; neoplasia and immunology. Diagnostic tests and procedures utilized for these pathophysiological problems are presented, and appropriate treatment is discussed. (SCC)

HED 145 - Pharmacology (3 cr)

Drug classifications, apothecary and metric systems of measurement, medications by brand name and generic terms, and use of PDR and hospital formularies are addressed in this course. (SCC)

DIESEL/HEAVY DUTY EQUIPMENT

HEQ 101 - Commercial Driver's License Theory (6 cr)

This course introduces students to the concepts required to properly operate combination vehicles. Emphasis is placed on the knowledge and procedures needed for safe operation by the professional driver. Prerequisite: HEQ 102. (SCC)

HEQ 102 - Commercial Driver's License Applications (6 cr)

This course is a continuation of HEQ 101 with emphasis on the application of the theory presented in the theory class. The development of safe driving habits and professional characteristics of the tractor trailer driver is stressed throughout the course. Prerequisite: HEQ 101. (SCC)

HEQ 111 - Basic Electrical Theory (7 cr)

Students are introduced to the theories of basic low voltage DC electricity and mobile air conditioning and their application to the repair of heavy equipment systems. Ignition systems, starting and charging systems, vehicle wiring and auxiliary electrical/electronic components are emphasized. Prerequisite: Concurrent enrollment in HEQ 112. (SCC)

HEQ 112 - Basic Electrical Applications (9 cr)

Students continue learning the concepts introduced in HEQ 111 with emphasis on the diagnosis and repair of low voltage DC electrical and mobile air conditioning systems common to heavy equipment. Prerequisite: Concurrent enrollment in HEQ 111. (SCC)

HEQ 121 - Basic Principles of Engine Theory (7 cr)

Students are introduced to basic engine theory and operation, and their application to the maintenance and repair of heavy equipment. Engine systems and their component parts are emphasized. Prerequisite: Concurrent enrollment in HEQ 122. (SCC)

HEQ 122 - Basic Engine Applications (9 cr)

Students continue learning concepts introduced in HEQ 121 with emphasis on the diagnosis and repair of the basic gasoline and diesel engine systems common to heavy equipment. Prerequisite: Concurrent enrollment in HEQ 121. (SCC)

HEQ 131 - Principles of Power Train Theory (7 cr)

Students are introduced to the theory and operation of clutches, transmissions, differentials, brakes (air and hydraulic), and their application to heavy equipment. Prerequisite: Concurrent enrollment in HEQ 132. (SCC)

HEQ 132 - Power Train Applications (9 cr)

Students continue to learn the concepts introduced in HEQ 131 with emphasis on the diagnosis and repair of clutches, transmissions, differential (air and hydraulic). Practice in the repair and maintenance of bearings and seals, steering and alignment, and fluid couplings is covered. The correct use of specialized shop tools and equipment is emphasized. Prerequisite: Concurrent enrollment in HEQ 131. (SCC)

HEQ 241 - Heavy Equipment Hydraulic Theory (7 cr)

Students are introduced to basic hydraulic theory and operation and their application to the maintenance and repair of heavy equipment. Hydraulic systems and their component parts are emphasized. Prerequisite: HEQ 111, 112, 121, 122, 131 and 132, or permission of instructor and concurrent enrollment in HEQ 242. (SCC)

HEQ 242 - Heavy Duty Equipment Hydraulic Application (9 cr)

This course offers practical application of students' knowledge. Students diagnose, repair and test a variety of hydraulic equipment. Prerequisite: HEQ 111, 112, 121, 122, 131 and 132, or permission of instructor and concurrent enrollment in HEQ 241. (SCC)

HEQ 251 - Practical Shop Procedures (7 cr)

This course offers practical shop application of students' knowledge and skills for the repair of basic electrical, engine, power train and heavy equipment. Prerequisite: HEQ 111, 112, 121, 122, 131 and 132, or permission of instructor and concurrent enrollment in HEQ 252. (SCC)

HEQ 252 - Practical Shop (9 cr)

This course continues with practical shop skills acquired in HEQ 251. Students receive shop experience in repairing a wider variety of heavy equipment. Prerequisite: HEQ 111, 112, 121, 122, 131 and 132, or permission of instructor and concurrent enrollment in HEQ 251. (SCC)

HEQ 261 - Practical Shop Procedures (7 cr)

This course continues with practical shop experience gained in HEQ 251, 252. Simulated shop operations for the repair and maintenance of various power train components are emphasized. Prerequisite: HEQ 111, 112, 121, 122, 131 and 132, or permission of instructor and concurrent enrollment in HEQ 262. (SCC)

HEQ 262 - Practical Shop (6 cr)

Students learn extensive practical applications of all aspects of heavy equipment repair. Use of specialized equipment, tools, machines and techniques is emphasized. In addition, comprehensive diagnosis and repair of transmissions are stressed. Prerequisite: HEQ 111, 112, 121, 122, 131 and 132, or permission of instructor and concurrent enrollment in HEQ 261. (SCC)

HEQ 266 - Cooperative Education Seminar (1-2 cr)

For course description, see Cooperative Education. (SCC)

HEQ 267 - Cooperative Education Work Experience (1-18 cr) For course description, see Cooperative Education. (SCC)

HEQ 288 - Cooperative Education Work Experience (No Seminar) (1-18 cr)

For course description, see Cooperative Education. (SCC)

HEQ 294 - Special Problems (3 cr)

Individualized student needs are addressed in this shop program. Students are assigned specialized shop projects and receive in-depth instruction about the specific aspects of heavy equipment repair. Prerequisite: Permission of instructor. (SCC)

HEALTH INFORMATION MANAGEMENT

HIM 103 - HIM Theory and Practice (5 cr)

Students are introduced to the health information management field, history of healthcare, health professions, medical field, health records, and health record personnel. Students will learn facility organization, regulatory agencies, and the roles and function of health information personnel. Students will be introduced and have hands on experience with quantitative and qualitative analysis of records according to standards. Acute care hospital-based systems and the role of admission services is in initiation of records are addressed. Application of computer systems in a database, analysis of record content and record management are presented. (SCC)

HIM 105 - Legal Concepts in Health (3 cr)

This interdisciplinary health records course emphasizes the health record as a legal document. Confidential communication policies and procedures, release of information, consent and state and federal law pertaining to health are presented. Forms of liability, preparation of records for court responses and to subpoenas are emphasized. Students research laws, current and proposed health legislation, and contemporary legal issues. (SCC)

HIM 120 - Medical Assistant Coding and Reimbursement (3-5 cr)

Medical insurance terminology and billing procedures are covered in this course. Students learn to use the CPT and ICD-9-CM for basic ambulatory care setting coding needs. Legal and ethical issues regarding insurance billing also are covered. Prerequisite: Successful completion of MA 101, 102, 111, 112 and concurrent enrollment in MA 122, 125. (SCC)

HIM 135 - Comparative Health Records (4 cr)

Record systems in all types of nonacute health care settings are presented including ambulatory care, home health, hospice, mental health and long-term care. Regulatory issues, documentation requirements and information management issues unique to each setting are discussed. Prerequisite: HIM 103. (SCC)

HIM 160 - Computer Application in HIM (5 cr)

Universal terminology associated with computer software and hardware used in the Health Information Management field is introduced in this course. Students will receive a brief overview of Microsoft Word, Excel, and PowerPoint, Students will be introduced to the basics of electronic health records (EHRs), general healthcare computer systems, data retrieval, and other EHR system topics. This course is the first in a two-part series to familiarize the student with basic computing skills that are essential in the healthcare setting. (SCC)

HIM 161 - Health Management Information Systems (3 cr)

This course is a continuation of the concepts introduced in HIM 160. Emphasis is on the use of tasks, steps and domains frequently used in the software programs currently used in the medical industry. Prerequisite: HIM 160. (SCC)

HIM 162 - Electronic Health Records (3 cr)

This course is a continuation of the concepts introduced in HIM 160 and 161. Emphasis is on understanding the selection and transition process of the EHR. Students will have hands on experience with EHR applications. (SCC)

HIM 167 - Current Issues in HIM (4 cr)

Students are introduced to issues and terminology that are relevant to the Health Information Management field. Prerequisite: Completion of all first-year requirements. (SCC)

HIM 203 - Clinical Practice (1-3 cr)

This clinical practicum provides actual on-site practice in skills required in medical coding, chart analysis and basic medical record proficiency. Students apply skills practiced in the directed practice lab while integrating knowledge with application. Prerequisite: Second-year health information management students and concurrent enrollment in HIM 212. (SCC)

HIM 209 - Health Data Analysis and Display (3 cr)

Students learn the principles in collection, computation, presentation and analysis of health data by working with simulated applications of data collection principles by data abstracting using computerized health information systems. Presentation and analysis of data using computer applications are addressed. Prerequisite: Completion of all first-year requirements. (SCC)

HIM 211 - Quality Improvement (4 cr)

Students learn principles and procedures pertaining to utilization management, quality assurance and improvement, credentialing and risk management. Knowledge and skills necessary to apply the principles in assessing the quality of patient care are emphasized. Research and simulation are used to acquaint students with quality assurance principles and methods. Selected classification systems are addressed. Prerequisite: Completion of all first-year requirements. (SCC)

HIM 212 - Acute Care Coding (5 cr)

Students study theory and application of the current edition of the ICD (International Classification of Disease) authorized for use in the US. Students code utilizing charts and participate in lab exercises. Assignment of diagnosis-related groups and computerized endcoding and grouping are presented using practical computer applications to perform these tasks. Prerequisite: Completion of BIOL 105, 204, 205. (SCC)

HIM 213 - Clinical Practice (6 cr)

This supervised, clinical practicum provides students experience in area hospitals, skilled nursing facilities and other health care facilities and agencies. Students work under supervision of facility personnel or the instructor and perform all learned skills in an actual clinical setting. Prerequisite: Clinical status: final quarter and concurrent enrollment in HIM 240. (SCC)

HIM 214 - Ambulatory Care Coding (5 cr)

Ambulatory coding systems currently in use are utilized in this course. Health Care Financing Administration rules and procedures are emphasized, incorporating Medicare changes and other third-party payers. Current reimbursement methodologies in ambulatory care are presented. Prerequisite: HED 129, 145 and HIM 103, 212 or permission of instructor. (SCC)

HIM 215 - ICD-10 Procedural Coding (4 cr)

Students are introduced to the ICD-10-PCS coding system for assigning codes to inpatient procedures. Students code utilizing operative reports and participate in lab exercises. Prerequisite: HIM 212 or MSEC 123. (SCC)

HIM 216 - Reimbursement Strategies for HIM Professionals (5 cr)

This course introduces students to a variety of claims processes and procedures, and health care payers. Career roles and responsibilities and employment opportunities also are covered. Prerequisite: Completion of HIM 212, 214, 215. (SCC)

HIM 218 - Advanced Medical Coding (5 cr)

Students practice using ICD-9-CM (International Classification of Diseases, 9th Edition, Clinical Modification), ICD-10-CM/PCS (International Classification of Diseases, 10th Edition, Clinical Modifications/Procedural Coding System, and CPT (Current Procedural Terminology) by coding inpatient and outpatient source documents and charts. Students learn the implications of DRGs (Diagnostic Related Groups) and APCs (Ambulatory Payment Classifications) and their relationship to coding assignment and finances. The content of this course explains the purpose of manual and computer indexes. Theory and practice in coding problem-solving, data quality control and use of the computer encoder are emphasized. Prerequisite: HIM 212, 214, 215. (SCC)

HIM 219 - Healthcare Environment and Professional Skills (5 cr)

This course gives an overview of the healthcare environment and of the leadership, planning, professional, and communication skills that are essential to be successful in this environment. It covers the healthcare systems as a whole including provider, governing, and payment organizations. (SCC)

HIM 220 - Health Technology Environment and Security (5 cr)

This course gives an overview of the healthcare technology environment, various health IT applications, and associated privacy and security policies and compliance. It focuses on health information management systems as well as applications that connect into system, and on the flow and transfer of data throughout the healthcare system. (SCC)

HIM 221 - HIMS Systems Analysis, Implementation and Maintenance (5 cr)

This course gives an overview of the healthcare information management systems lifecycle, including analysis planning and design, selection and acquisition, implementation and management, and testing and evaluation. The focus is on best practices and standards that guide effective implementation and maintenance of information systems to support clinical processes and workflow in healthcare organizations. (SCC)

HIM 240 - HIM Clinical Seminar (2 cr)

In this follow-up seminar of supervised clinical experience, students discuss and report on clinical topics, use of work skills and all aspects of working in the field. Students learn about what to expect in seeking a job and how to act professionally in the HIM field. Students will be given weekly mock RHIT exams to prepare them for their certification exam upon graduation. Prerequisite: Completed all HIM program courses and currently enrolled in HIM 213, 216, 218. HIM students in their last quarter of the program. (SCC)

HEARING INSTRUMENT SPECIALIST

HIS 101 - Basic Hearing Instrument Sciences (4 cr)

This course defines, describes and identifies the physical processes of sound and sound amplification. Students in this course discover and learn the development of contemporary hearing instruments from a historical perspective. Students also demonstrate knowledge of hearing instrument components and logically communicate the expected benefits and limitations of various instruments. (SFCC)

HIS 104 - Hearing Physiology and Anatomy (4 cr)

This course describes the function and identifies the structures of the human ear and hearing. Students demonstrate through class discussion and written assignments knowledge of ear physiology and anatomy. (SFCC)

HIS 106 - Healthcare and Business Ethics (4 cr)

In this class students relate and discuss the ethical issues surrounding the performance of their work as hearing instrument specialists. Students class consider and then offer ethical solutions to a variety of possible challenges in their industry. (SFCC)

HIS 123 - Basic Audiometrics (5 cr)

In this course students demonstrate the ability to perform standard air, bone and speech audiometry. The students also display competent performance of video-otoscopy and patient testing instruction. Student perform the normal record keeping chores of this testing. Prerequisite: HIS 104, 106 or permission of instructor. (SFCC)

HIS 125 - Auditory Disorders (4 cr)

Students in this class describe and define the otologic conditions affecting hearing. Students also identify otologic red flags that require referral to medical physicians and other healthcare specialists. Prerequisite: HIS 104, 106 or permission of instructor. (SFCC)

HIS 127 - Hearing Healthcare Management I (4 cr)

Students in this course describe, outline and practice the wide-range skills and competencies necessary in the management of a typical hearing healthcare office's business operations. Prerequisite: HIS 104, 106 or permission of instructor. (SFCC)

HIS 134 - Advanced Audiometrics (5 cr)

Students practice and demonstrate competency in the more advanced diagnostic tests used in the industry. Students in this class will perform tympanometry, otoacoustic emission testing, and complete audiometric evaluations. Students show competence in both handwritten and computer-based recording of test results. Prerequisite: HIS 104, 106, 123 and permission of instructor. (SFCC)

HIS 136 - Hearing Instrument Technologies (4 cr)

This course prepares the student to work with the current technologies used in the hearing instrument industry. Students identify patients and audiological conditions that would benefit from specific circuits, matrices and instrument options. In this course students discuss advanced issues surrounding analog and digital amplification technologies. Prerequisite: Permission of instructor. (SFCC)

HIS 138 - Ear Couplers and Assistive Technologies (5 cr)

This course defines, describes and identifies the functional uses of different types of earmolds, shells and assistive listening devices (ALDs). Students practice taking impressions and modifying earmolds and shells for which they've made impressions. Students demonstrate the correct use of several commonly used ALDs. Ordering and record keeping activities are also practiced. Prerequisite: HIS 104, 106 and permission of instructor. (SFCC)

HIS 201 - Hearing Healthcare Management II (4 cr)

Students describe, outline and practice the wide range skills and competencies necessary in the management of a typical hearing healthcare office's products and services. Prerequisite: Permission of instructor. (SFCC)

HIS 205 - Introduction to Speech-Language Pathology and Audiology (5 cr)

Students explain and write an overview of deficits of speech, language and hearing, and the role of the speech-language pathologist and audiologist. Students also develop a referral protocol to these specialists for their patients. Prerequisite: HIS 104, 106 and permission of instructor. (SFCC)

HIS 206 - Hearing Instrument Specialist Laboratory I (4 cr)

In this course students practice connected activities involved in fitting and dispensing hearing instruments, including: Taking impressions, ordering earmolds/hearing instruments, performing quality control checks of incoming inventory, preprogramming analog and digital hearing instruments, performing real ear acoustic measurement and completing a variety of test box verifications. Ordering and record keeping activities are also practiced. Students develop good communication and problem-solving skills. Prerequisite: HIS 104, 106 and permission of instructor. (SFCC)

HIS 210 - Clinical Methods I (5 cr)

In this course students practice all skills associated with the provision of hearing healthcare services from the first patient contact to the final hearing instrument checkup. Prerequisite: HIS 104, 106 or permission of instructor. (SFCC)

HIS 213 - Marketing/Sales (4 cr)

Students identify, describe and define those elements that an effective marketing campaign should include. Students develop a marketing plan for a typical hearing instrument office. Students also define, practice and demonstrate skills necessary to increase patient compliance with purchase recommendations. Prerequisite: HIS 104, 106 or permission of instructor. (SFCC)

HIS 215 - Hearing Instrument Specialist Laboratory II (5 cr)

In this course students practice connected activities involved in fitting and dispensing hearing instruments including taking impressions, ordering earmolds/ hearing instruments, performing quality control checks of incoming inventory, pre-programming analog/digital hearing instruments, troubleshooting malfunctioning instruments, and adjusting instruments for better fit and performance. Ordering and record keeping activities also are practiced. Students develop good communication and problem-solving skills. Prerequisite: HIS 104, 106 or permission of instructor. (SFCC)

HIS 222 - Clinical Methods II (6 cr)

In this course students practice all skills associated with the provision of hearing healthcare services from the first patient contact to the final hearing instrument checkup. Prerequisite: HIS 104, 106 or permission of instructor. (SFCC)

HIS 250 - Perspectives on Disabilities (4 cr)

Students learn to approach their patient recommendations and treatments showing careful consideration of those historical, international, socioeconomic, ethical, personal and age-related perspectives that may influence treatment outcomes. Students modify their perspectives on disability, individual choices, societal values and social responsibilities to provide the best care to all patients. Prerequisite: HIS 104, 106 or permission of instructor. (SFCC)

HIS 266 - Cooperative Education Seminar (1-2 cr)

For course description, see Cooperative Education. (SFCC)

HIS 267 - Cooperative Education Work Experience (1-18 cr) For course description, see Cooperative Education. (SFCC)

HISTORY

HIST 105 - Historical Roots of Contemporary Issues (5 cr)

This course explores the historical roots of various contemporary global problems from multiple perspectives. (SFCC)

HIST 106 - World History to 1500 (5 cr)

World History to 1500 is a comparative inquiry into societies and cultures on the six inhabited continents. It emphasizes economic, social and political globalization and serves as a broad foundation for further studies in history. (SCC, SFCC)

HIST 107 - World History since 1500 (5 cr)

World History since 1500 is a comparative inquiry into societies and cultures on six inhabited continents. It emphasizes economic, social and political globalization and serves as a broad foundation for further studies in history. Prerequisite: SFCC recommended minimum reading placement score: COMPASS 80, ASSET 40. (SCC, SFCC)

HIST& 116 - Western Civilization I (5 cr)

The major political, social and economic developments of pre-Hellenic, Greek, Roman and medieval history in terms of their contribution to Western civilization. Prerequisite: SFCC recommended minimum reading placement score: COMPASS 80, ASSET 40. (SCC, SFCC)

HIST& 117 - Western Civilization II (5 cr)

European man from the feudal period through the French Revolution and the Napoleonic period. (SCC, SFCC)

HIST& 118 - Western Civilization III (5 cr)

The development of Western civilization from the French Revolution to the present. (SCC, SFCC)

HIST& 136 - US History 1 (5 cr)

The historical development of the American people from the beginning of European contact to the end of the Civil War with emphasis on the indigenous peoples, the Colonial period, independence, the Constitution, the early Republic and the sectional crisis. (SCC, SFCC)

HIST& 137 - US History 2 (5 cr)

The development of the United States from the end of the Civil War to the present; emphasis on both the understanding and evaluation of basic historical materials. (SCC, SFCC)

HIST 141 - History of China (5 cr)

An examination of 4,000 years of political, social, economic, and cultural developments in China. This course is designed to prepare students for further study in Chinese and East Asian History. Prerequisite: SFCC recommended minimum reading placement score: COMPASS 80, ASSET 40. (SFCC)

HIST 142 - History of Japan (5 cr)

An examination of 2,000 years of political, social, economic, and cultural developments in Japan. This course is designed to prepare students for further study in Japanese and East Asian History. Prerequisite: SFCC recommended minimum reading placement score: COMPASS 80, ASSET 40. (SFCC)

HIST& 214 - Pacific NW History (5 cr)

The exploration, settlement and growth of the political, economic and social institutions of Washington and the Pacific Northwest; includes the study of local and state government and environmental problems in the state of Washington. (SCC, SFCC)

HIST& 219 - Native American History (5 cr)

This introductory course includes an analysis of early North American Indian history pre-colonization, colonization, and post colonization with a chronology and emphasis on the events and developments of the indigenous peoples who inhabited this country from the period of European contact through the end of the 20th century. (SCC, SFCC)

HIST 230 - Latin American History (5 cr)

A survey of Latin American history from the Colonial era through the Independence period, culminating with the economic, social, and political developments and significant events of the 20th century. (SCC, SFCC)

HIST 240 - History of Modern Middle East (5 cr)

This course prepares students for advanced-level courses in Middle Eastern studies. The time period primarily covered the modern developments from the ottoman period to the present, with an emphasis placed on understanding the peoples of the Middle East, their traditions and histories. (SCC, SFCC)

HIST 266 - Cooperative Education Seminar (1-2 cr)

For course description, see Cooperative Education. (SFCC)

HIST 267 - Cooperative Education Work Experience (1-18 cr) For course description, see Cooperative Education. (SFCC)

HIST 280 - Introduction to Modern British Government and Social Services (3 cr)

Formerly POLS 280. A three-credit introduction to British cultural, economic and political institutions in their historical context. Prerequisite: Only for students in England for the Service Learning in England program. (SFCC)

HLTH 101 - Health and Wellness (3 cr)

Course encompasses a total wellness concept of one's physical, mental and emotional well-being. Students examine major health issues of contemporary society. Students also learn to make responsible lifestyle decisions that directly affect their quality of life and attainment of well-being. (SCC, SFCC)

HLTH 102 - Health Enhancement (5 cr)

Health Enhancement emphasizes the importance of knowledge, attitudes, and practices relating to a healthy lifestyle. It is a course designed to expose students to a broad range of issues and information relating to the various aspects of personal health, which include the physical, social, emotional, intellectual, spiritiul, and environmental aspects. Topics of exploration include, but are not limited to: nutrition, physical fitness, recognition of stress and weight management. (SFCC, SCC)

HLTH 104 - Stress Management (3 cr)

Students learn techniques and strategies to manage and evaluate stress. Consequences of stress to physical and mental health are emphasized. Techniques of bio-feedback and relaxation responses are covered, as well as wellness lifestyle development. General applications for physiological arousal and behavior-change interventions are covered. (SCC, SFCC)

HLTH 120 - Professional Technical First Aid (1-5 cr)

This course will cover a wide range of First Aid subjects to meet job requirements in an ever changing work environment. The course will cover CPR for the adult, child and infant (mouth to mouth, mouth to nose, and compression only CPR), rescue breathing, choking hazards (anatomical and mechanical), automated external defibrillators (V-fib and V-tach), severe bleeding (avulsions, punctures, lacerations and abrasions), shock (cardiogenic, hypovolemic, etc.) burns (thermal, chemical, electrical and radiant), heat exhaustion, heat stroke, hypothermia and frostbite, strains, sprains, fractures (open and closed), dislocations, and poisoning. The students will leave this course with a nationally recognized First Aid and CPR card (i.e., American Red Cross, American Heart Association or National Safety Council) valid in all 50 states and allowing for an easy recertification process. (SCC)

HLTH 174 - First Aid (3 cr)

Principles, theory and skills of standard first aid and safety which prepare students to make appropriate decisions regarding first aid care and to act on those decisions. American Red Cross cards are available upon successful completion of this course. (SCC, SFCC)

HLTH 270 - Nutrition for Fitness (3 cr)

This course provides students with a working knowledge of prudent nutritional practices and focuses on issues of concern to individuals who are active in physical fitness programs. In addition to basic nutritional information, the course covers topics with special applications to the fitness field, such as the nutritional requirements of different activities, planning training diets and pregame meals. The effects of ergogenic foods on performance, fluid and electrolyte balance also are covered. (SCC, SFCC)

HOTEL AND RESTAURANT MANAGEMENT

HM 110 - Introduction to Hospitality (5 cr)

This course introduces students to the basic principles of public hospitality. The history of the industry, organizational methods, employment opportunities and problems facing the hospitality industry are presented. (SCC)

HM 111 - Seminar - Hotel/Restaurant/Tourism (2 cr)

Students study recent trends and business factors that affect the hospitality/tourism industry. Various components of hotel/restaurant/tourism are emphasized. (SCC)

HM 112 - Hospitality Mathematics (3 cr)

This course introduces the concepts of mathematics relating to the hospitality field. Liquid and dry measurements, percentages, and the metric system are introduced. Recipe costing, portion control, contraction and expansion of recipes and formulas, and yield analysis of food products are calculated. Prerequisite: Appropriate placement scores. (SCC)

HM 115 - Food Sanitation (3 cr)

This course introduces students to the basic principles of sanitation and their significance in food service. Implementing sanitary procedures and programs in the kitchen is emphasized. A national certification exam is given at the conclusion of the course. (SCC)

HM 116 - Nutrition for Chefs and Restaurant Managers (3 cr)

This course introduces students to the characteristics, functions, and food sources of major nutrients and how to maximize nutrient retention in food preparation and storage. Digestion, energy needs, recommended daily allowances and dietary guidelines are emphasized. Prerequisite: HM 115 or concurrent enrollment. (SCC)

HM 126 - Food Science (5 cr)

This course emphasizes basic cooking methods including the preparation of soups; stocks and sauces, meat, fish and poultry; vegetables, fruits and starches; as well as an introduction to breakfast and baking preparation. Prerequisite: Permission of instructor or counselor. (SCC)

HM 130 - Human Relations (5 cr)

Students are introduced to the basic principles of human behavior and their application in developing positive working relationships. (SCC)

HM 141 - Maintenance and Engineering (4 cr)

Students are introduced to the basic technical knowledge required to establish preventive maintenance procedures for hotel/restaurant facilities. (SCC)

HM 151 - Restaurant Management (3 cr)

Students are introduced to the food and beverage operation of hotels and motels. (SCC)

HM 160 - Supervisory Housekeeping (3 cr)

Students are introduced to the fundamentals of housekeeping management, recordkeeping and executive responsibilities. Employee training methods are emphasized. (SCC)

HM 202 - Front Office Procedures (4 cr)

Students are introduced to the essential routines addressing all aspects of front office procedures. Registration and reservation processes, rules and regulations and their application to the hotel-motel industry, and ethics and general strategies used when dealing with the public are emphasized. Prerequisite: CIS 110. (SCC)

HM 205 - Hotel/Restaurant Law (5 cr)

Students are introduced to the basic principles of law as it pertains to the operation of hotels and motels. Legal liability, conventional and sales contracts, statutory law, and innkeeper and guest responsibilities are emphasized. (SCC)

HM 208 - Hotel Sales and Marketing (2 cr)

Students are introduced to the fundamentals of hotel/restaurant sales promotion, publicity, advertising, finances and other marketing skills. Advertising and marketing strategies are emphasized. Prerequisite: CIS 110, HM 130. (SCC)

HM 220 - Tourism and the Hospitality Industry (3 cr)

Students are introduced to package tourism arrangements, economics of tourism, and marketing strategies and their relationship to the industry. Prerequisite: CIS 110, HM 130. (SCC)

HM 232 - Hotel/Restaurant Management Principles (5 cr)

Students are introduced to the principles of hotel/restaurant management and their relationship to the overall management of facilities and personnel in the industry. Development of supervisory skills and coaching techniques to improve employee performance is emphasized. Prerequisite: CIS 110 and HM 130. (SCC)

HM 251 - Restaurant Management (5 cr)

Students are introduced to the food and beverage operation of hotels and motels with advanced management techniques. (SCC)

HM 255 - Menu Planning (3 cr)

Students are introduced to the composition of menus, and includes purchasing procedures, merchandising, servicing and pricing of foods. Planning a functional, operative menu using appropriate menu copy and layout is emphasized. Prerequisite: Permission of the instructor or counselor. (SCC)

HM 265 - Hospitality Cost Controls (5 cr)

This course introduces the principles and procedures involved in an effective system of food, labor and sales income control. The development and use of standards and the calculation of actual costs are emphasized. (SCC)

HM 267 - Cooperative Education Work Experience (1-18 cr) For course description, see Cooperative Education. (SCC)

HM 288 - Cooperative Education Work Experience (No Seminar) (1-18 cr)

For course description, see Cooperative Education. (SCC)

HUMAN SERVICES

HS 102 - Introduction to Human Services (5 cr)

This course is an introduction to human services. Included are current services, merits and shortcomings of current services, and new programs that are needed to meet service gaps and shortcomings. (SFCC)

HS 105 - Child Abuse (5 cr)

The focus of the course explores the phenomena of child abuse from the perspective of the family. From this perspective, the class examines risk factors that predispose families toward child abuse and neglect. The class delves into the legal and psychological issues of physical abuse, physical neglect, psychological maltreatment and sexual abuse. The class will highlight approaches to prevention. (SFCC)

HS 115 - Social Policy (5 cr)

An introductory course that is policy-oriented. It attempts to instill systematic habits of analysis and inquiry that will increase the student's awareness and objectivity. The focus is on current issues and problems in social work. (SFCC)

HS 131 - Human Services Seminar I (1-5 cr)

This course acquaints students with various people-helping skills applicable to a variety of social service settings in the community. Designed to fill emerging needs prior to the development of a regular course or to fill one-time training needs. This course may be repeated for up to 10 credits. (SFCC)

HS 132 - Human Services Seminar II (1-5 cr)

This course acquaints students with various people-helping skills applicable to a variety of social service settings in the community. Designed to fill emerging needs prior to the development of a regular course or to fill one-time training needs. This course may be repeated for up to 10 credits. (SFCC)

HS 136 - Improving Interpersonal Communication (5 cr)

Designed to help people live more effectively through improved communication skills. Study, awareness and practice of these skills will enhance students' effectiveness in beginning, maintaining and ending relationships. Students will gain skills in managing controversy, stress and anger. The course is a balance between theory and practice of the skills and concepts involved in becoming an effective communicator. (SFCC)

HS 221 - Treatment Theories in Human Services (5 cr)

This course covers concepts, theories and practices regarding social work treatment. It focuses on the constructs, underlying principles, theories, practices and desired outcomes of several contemporary treatment modalities. Prerequisite: AS176/second year standing. (SFCC)

HS 281 - Practicum I (5 cr)

Students in the human services programs are placed in a practicum setting where they have an opportunity to observe and to work with people in a human service setting. Each student is individually placed in accordance with his/her career direction. Placements are made in areas such as gerontology, social work, education, early childhood education, special education and hearing impaired. Individual student conferences are arranged to facilitate the total experience. (SFCC)

HS 282 - Practicum II (5 cr)

Students in the human services programs are placed in a practicum setting where they have an opportunity to observe and to work with people in a human service setting. Each student is individually placed in accordance with his/her career direction. Placements are made in areas such as gerontology, social work, education, early childhood education, special education and hearing impaired. Individual student conferences are arranged to facilitate the total experience. (SFCC)

HS 283 - Practicum III (5 cr)

Students in the human services programs are placed in a practicum setting where they have an opportunity to observe and to work with people in a human service setting. Each student is individually placed in accordance with his/her career direction. Placements are made in areas such as gerontology, social work, education, early childhood education, special education and hearing impaired. Individual student conferences are arranged to facilitate the total experience. (SFCC)

GERONTOLOGY PARAPROFESSIONAL

HSGER 101 - Introduction to Social Gerontology (5 cr)

Introduction to the theories of ageism created and institutionalized by many forces--historical, social, cultural and psychological. Emphasis on the study, research and practicalities of serving the needs of the elderly in contemporary American society. (SFCC)

HSGER 110 - Leisure, Learning, and Living (5 cr)

General data and observations as philosophy, trends and research in the leisure field; directed theoretical analysis of these studies as they pertain to the aging person; and contact with observations, progress visits, interviews and reports are addressed in this course. (SFCC)

HSGER 115 - Multi-Cultural Perspectives in Human Services (5 cr)

This course explores the experiences of minority cultures within the context of human services. Emphasis on investigating how each of the subcultures imposes its own distinctive normative structure on the individual, and the implications of cultural background on the planning and delivery of human services is addressed. (SFCC)

HSGER 201 - Aging and Personality (5 cr)

Personality theory and concepts of adjustment in terms of normal and pathological aging, and an overview of rehabilitative efforts with the aged. (SFCC)

HSGER 210 - Aging and Mental Health (5 cr)

An introduction to the theory and skills of aging and mental health as related to the aging process. As the aging process develops, several environmental changes occur that bring about physiological and psychological changes in some elderly persons. Students study the biological determinants, the speed of normal behavioral changes with age, the awareness of dysfunctions and senile dementia of the Alzheimer's type. (SFCC)

HSGER 221 - Counseling the Aging (5 cr)

Counseling techniques to assist the elderly in preretirement or rehabilitative services. Students may observe counseling activities, provide direct counseling, plan or implement a counseling service, or evaluate an existing service, depending on their level of skill. (SFCC)

HSGER 250 - Death, Loss and Grief (5 cr)

Designed to better understand death in its relationship to life through the exploration of what others have written about death and by examining one's own feelings about death and dying. We discuss and explore the death taboo; loss, grief, mourning, pain and the impact of the dying process; the helping professions; and the family and the dying person. (SFCC)

HUMANITIES

HUM& 101 - Intro to Humanities (5 cr)

This is an interdisciplinary program introducing students to the humanities through the arts-music, drama, poetry, movies, dance and the visual arts. In addition to an understanding of the basic elements and principles of the arts, each student perceives the role of the arts in society, the range of creative expression and what is involved in the creative process. Participation involves a variety of learning experiences including attendance at campus and community arts events, group discussion, multimedia instructional units and personal creative expression. Students may purchase tickets for a wide variety of offerings such as Civic Theatre, Spokane Symphony Orchestra, movies, etc., in lieu of a textbook. (SCC, SFCC)

HUM 102 - Introduction to Women's Studies (5 cr)

This course explores issues relating to women including but not limited to women's history, women's work and the socialization of women. Additionally, this course examines some of the differences between women and men, with the hope that through descriptive study, female and male students become empowered in new ways. In part, this goal encourages an in-depth look at the social structures and dominant dialogues that have posed limits upon both women and men while encouraging the search for removing such limits. (SCC, SFCC)

HUM 107 - Introduction to Cultural Studies (5 cr)

This course introduces students to the practice of analyzing American popular culture in its various forms, from films, advertisements and music to the habits and practices that characterize everyday life in the United States. Students learn to "read" popular culture using a wide range of interdisciplinary perspectives and theories, in particular those that emphasize how class, gender, sexuality, nationality and race are represented in cultural texts. Students discuss how these representations shape cultural beliefs and attitudes. Prerequisite: ENGL& 101 or permission of instructor. (SCC, SFCC)

HUM 139 - Introduction to Chinese Culture (5 cr)

Introduction to Chinese culture explores the uniqueness of an ancient culture which continues into the present. Content of the course includes a brief overview of Chinese history, with an introduction to Chinese religions, philosophy, and worldview. Students will also engage Chinese literature, cuisine, and the visual and performing arts; Chinese economic, social, scientific, and medical perspectives as well as the effects of the Chinese diaspora in the modern world. (SFCC)

HUM 201 - Humanities, Past, Present, and Future (5 cr)

An interdisciplinary class introducing students to the human quest for the meaning of life. Students will analyze literature, philosophy, music, history, and the visual arts of the past and present and then create future scenarios for themselves and societies. In addition to lecture presentations, students have assigned reading, elective reading and writing assignments weekly. Each student will also has a special humanities project. (SCC)

HUM 241 - The Impact of the Nazi Past (5 cr)

This course is designed for students interested in the history of Germany's Nazi past. Students examine the depiction of national socialism and racism in important German language films by significant European film directors from the 1950s to the present. Class discussion encourages a comparative perspective that draws connections to the issues of nationalism and racism in Germany and the U.S. today. The course is taught in English, and all films have English subtitles. (SFCC)

INTEGRATED BUSINESS AND ENTREPRENEURSHIP PROGRAM

IBE 201 - Integrated Business and Entrepreneurship Principles I (10 cr)

The IBE Principles I course offers a hands-on approach to training future business leaders and entrepreneurs. College instructors and local business and community leaders guide student teams through the process of identifying a business product or service, conducting market research, and developing a business plan outline. This program is limited to individuals who have received permission of Program Director and have completed IBE application. (SCC)

IBE 202 - Integrated Business and Entrepreneurship Principles II (5-10 cr)

The IBE Principles II course offers a hands-on approach to training future business leaders and entrepreneurs. College instructors and local business and community leaders guide student teams through development and management of business operations, including accounting systems, understanding legal and regulatory issues, and identifying and securing material resources. This course may be repeated twice for a maximum of 10 credits. Prerequisite: IBE 201 or instructor permission. (SCC)

IBE 203 - Integrated Business and Entrepreneurship Principles III (10 cr)

The IBE Principles III course offers a hands-on approach to training future business leaders and entrepreneurs. College instructors and local business and community leaders guide student teams through the creation and execution of a marketing plan and management of human resources. This course concludes with a capstone team presentation of the business plans developed throughout the IBE program. Prerequisite: IBE 202 or instructor permission. (SCC)

INVASIVE CARDIOVASCULAR TECHNOLOGY

ICT 114 - Introduction to Cardiac Care (3 cr)

Introduction to the field of Cardiovascular Technology and the role of the CV Technologist. Stresses the importance of professionalism, ethical behavior, and communications. Introductory study of medical terminology as related to cardiac care. Various discussion groups and tours will be provided. Prerequisite: Enrollment in ICT program or permission of instructor. (SCC)

ICT 115 - Technical Skills - CPR for Health Care Providers (1 cr)

American Heart Association version of health care provider course for CPR/AED. Required for student to enter a patient care clinical environment. Prerequisite: Enrollment in ICT program or permission of instructor. (SCC)

ICT 116 - Acute Coronary Syndrome (1 cr)

A study of the nations number one killer in its acute phase. Pathophysiology of atherosclerosis. The stable versus the unstable patient. Vulnerable plaque types. STEMI versus NSTEMI patient presentations. The national door to balloon initiative. 12 lead EKG recognition of the signs of ischemia/infarct patterns. Prerequisite: Enrollment in ICT program or permission of instructor. (SCC)

ICT 117 - Cardiovascular Pharm 1 (1 cr)

Introduction to cardiovascular pharmacology. A review of control of heart rate, blood pressure, and cardiac output and the common drug groups employed to manipulate these parameters. Prerequisite: Enrollment in ICT program or permission of instructor. (SCC)

ICT 124 - CV Diagnostic Exams (4 cr)

A review of the examinations used today to screen for coronary artery disease. Case studies will be presented from the patient initial presentation through diagnostic workup. Prerequisite: Enrollment in ICT program or permission of instructor. (SCC)

ICT 125 - Hemodynamics (2 cr)

Introduction to various forms of invasive monitoring. Emphasis is placed on the basics of hemodynamic monitoring and interpretation. Normal and pathologic examples are introduced. Prerequisite: Enrollment in ICT program or permission of instructor. (SCC)

ICT 126 - Technical Skills/Reading Hemodynamics (1 cr)

Introduction to various forms of invasive monitoring. Emphasis is placed on the basics of hemodynamic monitoring and interpretation. Normal and pathologic examples are introduced. Supports concepts taught in ICT 125. Prerequisite: Permission of instructor or permission of instructor. (SCC)

ICT 127 - Cardiovascular Pharm 2/Intravenous Therapy (1 cr)

Continuation of ICT 117 Intro to CV Pharm. Advanced Cardiac Life Support drugs are introduced. Pharmacy math is introduced. Pharmacy law is studied. Principles of IV therapy are introduced. Prerequisite: Enrollment in ICT program or permission of instructor. (SCC)

ICT 128 - Technical Skills/Pharmacology/Intravenous Therapy (1 cr)

Supports ICT 127 concepts. Case studies of patients during cardiac emergencies will be evaluated for appropriate drug selection. Pharmacy math calculations will be taught. IV therapy techniques will be taught. Prerequisite: Enrollment in ICT program or permission of instructor. (SCC)

ICT 129 - Basic Life Support Instructor Course (2 cr)

This course develops the instructional and technical skills required by the American Heart Association to become a Basic Life Support Instructor and to become a member of the campus CPR club. Prerequisite: Enrollment in ICT program or permission of instructor. (SCC)

ICT 134 - Cath Lab Procedures (3 cr)

This course is an overview of cardiovascular invasive diagnosis and intervention. Includes an introduction to the cardiac catheterization lab through the study of: Catheterization protocols and equipment. Angiographic anatomy of the cardiovascular system, and invasive cardiac measurements and calculations. Labs and tours will be provided. Prerequisite: Enrollment in ICT program or permission of instructor. (SCC)

ICT 135 - Technical Skills Cath Lab Procedures (1 cr)

This is the lab supporting ICT 134. Skills taught will be procedural tables and equipment used in cardiac catheterization. Simulations of vascular access techniques and cannulation of model vascular systems will be utilized. Computer analysis of recorded hemodynamic parameters will be introduced by use of a physiologic monitor. Injector system parameters will be taught. Prerequisite: Enrollment in ICT program or permission of instructor. (SCC)

ICT 138 - Cardiovascular Physiology (4 cr)

This course is an advanced study of normal cardiovascular physiology presented in a series of physician lectures and lab demonstrations with applications in invasive and noninvasive cardiology. Prerequisite: Enrollment in ICT program or permission of instructor. (SCC)

ICT 139 - Radiation Safety (2 cr)

A study of radiation production and safety measures for health care providers. This class will prepare the student to work in the fluoroscopic and cine imaging environment of the cardiac catheterization laboratory. Patient and staff exposure protection are emphasized. Prerequisite: Enrollment in ICT program or permission of instructor. (SCC)

ICT 140 - Surgical Asepsis (1 cr)

Surgical asepsis for health care providers. This class will prepare the student to create a sterile field. Gown and glove themselves and others. Procedural awareness of working in a sterile field will be developed. Prerequisite: Enrollment in ICT program or permission of instructor. (SCC)

ICT 141 - Technical Skills/Surgical Asepsis (1 cr)

This class supports ICT 140. The skills of surgical asepsis and infection control are taught. Working in a sterile field and gowning and gloving are taught. Develop a surgical conscience. Prerequisite: Enrollment in ICT program or permission of instructor. (SCC)

ICT 144 - Patient Care and Assessment (4 cr)

Develop patient care skills specific to patients with cardiovascular disease. Read a medical chart to identify risks for invasive procedures. Understand the expected response of the physician to various patient presentations. Prerequisite: Enrollment in ICT program or permission of instructor. (SCC)

ICT 145 - Technical Skills/Cath Lab Boot Camp/Patient Care (4 cr)

This class prepares the student to enter the clinical environment of the cardiac catheterization laboratory. Patient care skills and procedural steps will be practiced. Prerequisite: Enrollment in ICT program or permission of instructor. (SCC)

ICT 146 - Cath Lab Clinical I (6 cr)

Initial clinical experience of 160 clock hours. Focus on diagnostic cardiac catheterization procedural participation. Prerequisite: Enrollment in ICT program or permission of instructor. (SCC)

ICT 203 - Advanced Cardiac Life Support Course (2 cr)

This course develops the cognitive skills required for advanced cardiac life support required by the American Heart Association. Combined with another lab portion and mega code allows the student to hold an ACLS card. Prerequisite: Completion of previous quarter. (SCC)

ICT 204 - Advanced Cardiac Life Support Technical Skills Lab (1 cr)

This course develops the technical skills required by the American Heart Association, when combined with the lecture course to hold an ACLS card. Prerequisite: Completion of previous quarter. (SCC)

ICT 213 - Electrophysiology (4 cr)

Students are introduced to the field of cardiovascular technology, basic cardiac anatomy; physiology and electrophysiology with emphasis on the performance and interpretation of the electrocardiogram. Laboratory experiences to support these concepts also are included. Prerequisite: Enrollment in ICT program or permission of instructor. (SCC)

ICT 214 - Cardiac Interventions/PCI (3 cr)

This course will focus on the percutaneous interventions performed in today's cardiac cath lab. Including, but not limited to: Stenting, balloon angioplasty, intravascular ultrasound, atherectomy, thrombectomy, ocular coherence tomography, and other techniques. Prerequisite: Enrollment in ICT program or permission of instructor. (SCC)

ICT 215 - Interventional Radiology (2 cr)

This class will explore the cardiovascular diagnostic and interventions in non-cardiac vascular beds. This field is known as "Special Procedures" or Interventional Radiology. Prerequisite: Enrollment in ICT program or permission of instructor. (SCC)

ICT 216 - Electrophysiology 1 Introduction to Devices (2 cr)

This class will introduce the sub-specialty of electrophysiology (EP), this is the first of 2 classes. In this class we will investigate the role of EP in cardiology. A study of diagnostic protocols and implantable devices like pacers and defibrillators will be introduced. Prerequisite: Enrollment in ICT program or permission of instructor. (SCC)

ICT 217 - Technical Skills/PCI/EP/Special Equipment (2 cr)

This skills lab supports the ICT 214, 215 and 216 didactic content. Prerequisite: Enrollment in ICT program or permission of instructor. (SCC)

ICT 218 - Cath Lab Clinical II (5 cr)

This course continues to develop the skills from Cath Lab Clinical I. Students move into more complex procedures, such as percutaneous coronary interventions. Including, but not limited to: Stents, balloon angioplasty, intracoronary ultrasound. Monitor, scrub and circulator roles should be practiced. Prerequisite: Enrollment in ICT program or permission of instructor. (SCC)

ICT 219 - Cardiopulmonary Pathophysiology (1 cr)

This course describes the pathophysiology of pulmonary diseases, their diagnosis and treatment. Prerequisite: Completion of previous quarter. (SCC)

ICT 224 - Advanced Practices/Management (5 cr)

This class will focus on advanced practices such as left ventricular assist devices and support of cardiovascular surgery. Another aspect of this class will be to define the operational structure of the health care facility. For profit/not for profit hospitals will be studied. Private physician laboratory management models will be defined. Hospital chain of command will be defined. The emphasis will be for the student to understand and excel in multiple working environments. Prerequisite: Enrollment in ICT program or permission of instructor. (SCC)

ICT 225 - Pediatric Cath (1 cr)

The role of the cath lab in caring for patients with cardiac congenital anomalies will be explored. Prerequisite: Enrollment in ICT program or permission of instructor. (SCC)

ICT 226 - Statistics and Research (1 cr)

Introduction to the medical research protocols and the FDA approval process for drugs and devices. A review of statistics as utilized in medical research. Evaluation of the meaning of scientific reports. Prerequisite: Enrollment in ICT program or permission of instructor. (SCC)

ICT 227 - Electrophysiology 2 Interventions (2 cr)

This class is a continuation of ICT 216 Introduction to EP. EP lab interventions for treatment of cardiac arrhythmias are discussed. Prerequisite: Enrollment in ICT program or permission of instructor. (SCC)

ICT 228 - Technical Skills/Peds/Special Procedures/EP (2 cr)

This class supports the didactic content of ICT 224, 225, 226 and 227. Technical skills in the areas of cardiac assist devices, pediatric interventional devices, EP interventional devices. Prerequisite: Enrollment in ICT program or permission of instructor. (SCC)

ICT 229 - Cath Lab Clinical III (5 cr)

This course continues to develop the skills from Cath Lab Clinical II. Students move into more complex procedures and coronary interventions. Prerequisite: Enrollment in ICT program or permission of instructor. (SCC)

ICT 234 - Board Registry (RCIS) Prep Blackboard (4 cr)

This class will prepare the student to sit for the national registry appropriate for work in the cardiac cath lab. This being the RCIS (Registered Cardiovascular Invasive Specialist) registry offered by CCI (Cardiovascular Credentialing International). Prerequisite: Enrollment in ICT program or permission of instructor. (SCC)

ICT 235 - Cath Lab Clinical IV (12 cr)

This course continues to develop the skills from Cath lab Clinical III. Students move into more complex procedures and coronary interventions. Prerequisite: Enrollment in ICT program or permission of instructor. (SCC)

INTERIOR DESIGN

INTDS 105 - Design Drawing (4 cr)

Design drawing is a beginning drawing class that offers design students a strong introduction to drawing skills needed in their profession. The class emphasizes the development of close observation skills and composition as students experience the fundamentals of drawing line, shape, light and reflection, shade and shadow, and perspective as related to interior subjects and formats. Prerequisite: Required minimum reading placement score: COMPASS 80, ASSET 40. Required minimum writing placement score: COMPASS 76, ASSET 40. (SFCC)

INTDS 106 - Sketching Techniques (4 cr)

Students learn to effectively communicate ideas through quick sketching visual formats. Instruction includes a wide variety of approaches to sketching techniques, working from simple to complex subject matter including still life's, interiors and the human form. (SFCC)

INTDS 107 - Rendering Techniques (4 cr)

Rendering Techniques exposes students to different media and teaches them to accurately represent various subject matter in complex illustrations. The class places heavy emphasis on developing close observation skills, translating observations into a loose rendering style and a bold, creative approach to mixed media rendering styles. Prerequisite: GRDSN 105, INTDS 106 or permission of instructor. (SFCC)

INTDS 170 - Introduction to Interior Design (5 cr)

This course introduces the student to the profession as an overview, including trends influencing interior design, design legislation and sustainability. The responsibilities of the interior designer regarding health, safety, welfare, and environmental stewardship are presented. Students will learn the essential basics of design theory including aesthetics and the elements and principles of design with an emphasis on the design element of color, its complexity, and its applications. Students will participate in group discussions, examination, and weekly written assessments. Prerequisite: Required minimum reading and writing placement scores. (SFCC)

INTDS 171 - Interior Design Studio I (6 cr)

Students in this course study how to apply design principles to space planning in addition to functional and aesthetic analysis of interior components. Students learn to complete a series of practical residential design problems, including social and private spaces. Activities include how to measure and draw actual spaces, and selection and incorporation of architectural materials and furniture as integral design components. Students begin to build a selection of interior projects for their portfolio using professional presentation techniques. Prerequisite: INTDS 184, 187 or permission of instructor. (SFCC)

INTDS 172 - Interior Design Studio II (6 cr)

This course builds on knowledge gained in INTDS 171 by offering more advanced and specific, practical applications of residential environment design. It emphasizes selection of residential interior finishes, design concept development, space planning, problem solving, and functional and aesthetic factors as design components. Freehand drawing and sketching are integral to most projects. Students refine skills in working and design drawings, research methods, and the design process. Projects might include kitchen design, product research, and specification and alternative housing. Prerequisite: INTDS 171 or permission of instructor. (SFCC)

INTDS 173 - Drafting for Interior Design (4 cr)

Fundamentals of manual drafting techniques as they pertain to interior design; architectural floor plans, measurement, symbols, sections, elevations and hand lettering will be emphasized as a basis of drafting and design. Students will learn basics of designing custom casework sections and details for projects. Prerequisite: Required minimum reading and writing placement scores. (SFCC)

INTDS 174 - Design Presentation (4 cr)

Design Presentation introduces students to various media techniques and styles in visual presentation of both 2-D and 3-D projects. Students learn to effectively communicate design ideas in the form of written design concepts using design language and appropriate vocabulary. Through a combination of public speaking techniques and creative presentation styles, students learn to effectively present their ideas in front of an audience. Prerequisite: INTDS 107, 184, 187. (SFCC)

INTDS 175 - Materials of Interior Design (5 cr)

Definition and application of materials appropriate for use in interiors to include glass, wood, plastics, floor and wall coverings, metals, and building materials. Prerequisite: INTDS 170. (SFCC)

INTDS 176 - Interior Design Studio III (6 cr)

This course is designed to help students develop knowledge of universal design, barrier-free space requirements and specifications, skill in designing for persons with varying abilities, and an awareness of human needs throughout the life cycle. Learning experiences will include guest speakers, field trips, simulation techniques and teamwork. Students continue to develop and refine skills in sketching, design drawings, research methods, problem solving and design concepts. Students have opportunities to experience and master course information when they are challenged to apply the information to specific projects. Prerequisite: INTDS 172 or permission of instructor. (SFCC)

INTDS 179 - History of Interiors I (5 cr)

Students will learn to compare and contrast architecture, interiors, furniture, and decorative arts common to various historical periods including Antiquity, Medieval, Renaissance, Far East, Baroque ending with Rococo; includes doing a research paper, and creating a Resource Manual showing influences of period style used by today's profession. Prerequisite: INTDS 170. (SFCC)

INTDS 180 - History of Interiors II (5 cr)

A continuation of INTDS 179, students will survey types of furniture and interior architectural forms common to the Neo-Classic period, the Industrial Revolution in England and America, European and American Art Nouveau, Art Deco, the Mission Style, the Bauhaus and International Styles, concluding with the modern movement to the present. A special project will be required; a Resource Manual will be created to show continuity between both courses. Prerequisite: INTDS 179 or permission of instructor. (SFCC)

INTDS 184 - Drawing Communication (4 cr)

Drawing Communication continues with drafting development and provides an understanding of the fundamentals of projection drawings on a 2-and 3D surface for the Interior Design student. Focus will be on projection, grid and fast track methods of accurately constructing one-and two-point perspectives, in addition to, constructing isometric projection drawings. Students will learn to adapt two dimensional presentation drawings to a three dimensional format by constructing study and presentation models, focusing on materials and technique. Prerequisite: INTDS 173. (SFCC)

INTDS 185 - Building Systems for Interior Design (3 cr)

Introduction of specific systems within a building that directly affect the interior environment, systems introduction to include: Structural, mechanical, electrical, building envelope. Additional emphasis to include building codes and basic design considerations for building systems. Content is specifically focused on interior design and how designers would interface with other design consultants. Prerequisite: INTDS 171 and concurrent enrollment in INTDS 172, 186. (SFCC)

INTDS 186 - Lighting Design (3 cr)

This course covers the study of lighting design and application in both residential and commercial interiors. Includes practical problem solving and reflected ceiling plans. Prerequisite: INTDS 171. (SFCC)

INTDS 187 - Design Fundamentals Studio (4 cr)

This course focuses on 3 dimensional volume exploration through the use of different methods of graphically depicting the space. Instruction is provided in the fundamentals of perspective drawing, paraline drawing, and isometric drawing. Additionally, students will learn techniques in model building as a design and presentation tool. Prerequisite: INTDS 184. (SFCC)

INTDS 189 - Special Topics (3 cr)

This course focuses on a topic currently relevant to the field of interior design as a supplement to existing program courses. Course content varies depending on topic and number of credits offered. Areas students explore may include historic preservation, community service and educational/cultural tours. Course may be repeated for credit with different topics. Prerequisite: INTDS 170. (SFCC)

INTDS 266 - Cooperative Education Seminar (1-2 cr) For course description, see Cooperative Education. (SFCC)

INTDS 267 - Cooperative Education Work Experience (1-18 cr)

For course description, see Cooperative Education. (SFCC)

INTDS 268 - Design Portfolio (3 cr)

This course examines how design communication relates to client presentation. It focuses on portfolio and interviewing skills for professional presentation. Students develop creative portfolios that capture their capabilities as well as their personal and design philosophy, in a medium of their choice. Prerequisite: INTDS 282; INTDS 286 or instructor permission and concurrent enrollment in INTDS 266; INTDS 267 or instructor permission. (SFCC)

INTDS 275 - Professional Practices (3 cr)

Students learn personal goal setting, how to establish a business plan, types of business formations, resources of advice and counsel, and how to establish an interior design practice. (SFCC)

INTDS 280 - Textiles for Interiors (5 cr)

The selection, use and care of textile fabrics for interiors based on the study of fibers, fabric construction, specific finishes and properties; emphasis on designer selection and specification of fabrics for window treatments, upholstering furniture, floor coverings and accessories. Prerequisite: ART 105 and INTDS 170 or permission of instructor. (SFCC)

INTDS 281 - Interior Design Studio IV (6 cr)

Students learn the practical problem-solving techniques used in the design of commercial and public spaces. Commercial design materials and specifications are surveyed and applied to a series of interior projects requiring research, teamwork and professional presentation. Projects may include reception areas, hospitality, small office, healthcare and retail establishments. Actual projects are used as they become available. Prerequisite: INTDS 176, GPA 2.0 and faculty evaluation. (SFCC)

INTDS 282 - Interior Design Studio V (6 cr)

Students are involved with advanced work in contract and institutional design problems including research projects. Lectures are used to discuss project programming and to synthesize information gained in INTDS 281. Projects may include various international commercial spaces, hospitality and healthcare environments. Actual design projects are used when practical. Prerequisite: INTDS 281 or permission of instructor. (SFCC)

INTDS 285 - Computer Aided Design I (4 cr)

Introduction to the basic CAD skills needed to complete 2 dimensional drawings using computer aided design software. Students will learn to navigate the graphic interface and complete floor plans, furniture plans, reflected ceiling plans, and interior elevations using industry specific software and principles. Prerequisite: INTDS 172 and concurrent enrollment in INTDS 176. (SFCC)

INTDS 286 - Computer Aided Design II (4 cr)

This course builds on the skills learned in INTDS 285 and introduces more advanced design and drafting operations including 3-D design drawing using AUTOCAD. Prerequisite: INTDS 285. (SFCC)

INTDS 287 - Digital Interior Design Technology (4 cr)

This course provides a working knowledge of some of the digital design computer technology used today in the interior design industry. Through practice exercises and applications, students learn the basics of digital design programs including 3D, AutoCAD and Photoshop. Course work culminates in a final project that integrates photographs, AutoCAD drawings and other images and elements using features from each of the learned digital programs. Minimum of one quarter of AutoCAD within the previous one to two years. Familiarity with the Windows environment and understanding of mouse functionality (basic AutoCAD drawing and edit commands). Basic understanding of how to specify furniture. Ability to efficiently read a floor plan. Basic understanding and familiarity with Photoshop. Prerequisite: Permission of instructor. (SFCC)

INTDS 289 - Computer Aided Design III (4 cr)

This course builds on basic CAD skills from INTDS 285 and INTDS 286 and introduces software focusing on building information modeling (BIM) and three dimensional design. Students will learn how to use various software applications through the design process to achieve an efficient project workflow. Prerequisite: INTDS 286 and concurrent enrollment in INTDS 287. (SFCC)

INTDS 290 - Sustainable Design Practices (3 cr)

This course will introduce students to the practice and design principles associated with Sustainable Design as it pertains to interior design. It is also intended to be an introduction to the Leadership in Energy and Environmental Design (LEED) certification process. The LEED design criteria and certification process is a major component of the course, and students may be eligible to take the LEED exam upon completion of the course. Topics to be covered include: benefits of sustainable design, energy and atmosphere, indoor environmental quality, innovation in design, and preparation for the LEED AP ID+C exam. (SFCC)

INTDS 294 - Adobe for Interior Design (4 cr)

This course will introduce students to the basic skills and applications of Adobe PhotoShop and Adobe InDesign as they relate to the practice and profession of interior design. Students will gain knowledge about the graphic interface, basic design tools, and practical applications of the software in the field of interior design. Prerequisite: INTDS 176, 286. (SFCC)

INTDS 296 - Historic Preservation (3 cr)

Historic Preservation is intended to introduce the student to the history of the preservation movement in the United States, national, state and local programs available for historic structures and the methods used to document, preserve and restore older buildings. Students will participate in a Landmarks Survey of Browne's addition, group discussions, weekly assessments and a documentation assignment of their choice. Prerequisite: INTDS 179, 180. (SFCC)

INTDS 297 - Computer Aided Design IV (4 cr)

This course builds on the skills learned in INTDS 289. Students will continue working with industry standard Building Information Modeling software, learning advanced techniques. Students will learn to further integrate BIM drawings with rendering software to produce realistic three-dimensional drawing presentations. This course is intended to be project focused, applying skills and techniques to design projects and it will emphasize the interior design process while teaching the technical skills necessary to work in the field of interior design. Prerequisite: INTDS 289. (SFCC)

COMPUTING-INFORMATION SYSTEMS

IS 101 - Planning for Information Technology Students (1 cr)

Three main objectives comprise this course. First, inform students of options, outcomes and consequences of information technology education and training programs. Second, lead students in determining their education/training objectives and developing goals. Finally, prepare specific plans for subsequent education/training. Although concentration on information technology programs at SFCC, other programs are evaluated to determine which are most effective for each student. Students participate in group projects, documenting their research in written and oral reports. Upon completion of the course, students possess a detailed training/education plan. (SFCC)

IS 103 - Information Technology Fundamentals (5 cr)

Students learn computing hardware, operating systems and software applications. They learn to perform daily computer operations, including setting up a computer and installing new software. Skills are developed to evaluate and select business computer software and hardware and discuss and compare common operating systems. Hardware management and network terminology are introduced and selected operating systems are available for the students to experience. (SFCC)

IS 105 - Applications for IT I (3 cr)

This course has three objectives. First, inform students about information technology-related applications available and currently used in the industry. Second, teach the use of these applications through projects based creation and completion. Although concentrating on information technology programs, students are assisted in evaluating other applications to determine which are most effective. Students participate in group projects, documenting their research in written and oral reports. Upon completion of the course, students possess detailed, practical experience with some information technology standard applications. Prerequisite: CAPPS 151 or IS 144. (SFCC)

IS 107 - Applications for IT II (3 cr)

Students build on the skills obtained in IS 105. They expand their knowledge on applications, including word processing, spreadsheets, databases design and management, collaboration applications, and other information technology related applications. Prerequisite: IS 105 or permission of instructor. (SFCC)

IS 120 - Business Computer Use (3 cr)

This is an introductory course for those unfamiliar with computers. The course provides an overview of common software applications. The topics include computer operation, computer terminology, word processing, electronic spreadsheets, graphics, database management and telecommunications. (SFCC)

IS 132 - Computer Ethics & Law (5 cr)

This class will address basic cyberspace legal issues and policy problems. Specific problems in applying law to cyberspace in areas such as intellectual property, privacy, computer crime, and the bounds of jurisdiction will be explored. (SFCC)

IS 140 - Computer and Network Support (5 cr)

This course is a comprehensive, lecture and hands-on course for people who must install and maintain computer systems in a business environment. Hardware technology, operating systems and integration of computers in a network are included in this course. Troubleshooting techniques are studied. Prerequisite: IS 103 or permission of instructor. (SFCC)

IS 144 - Programming Fundamentals (3 cr)

Students learn the system design process and the basics of programming logic. They apply that knowledge with the use of current programming tools. Emphasis is based on process rather than on extensive coding exercises. Prerequisite: IS 120 or permission of instructor. (SFCC)

IS 160 - Internet Fundamentals (1 cr)

This class introduces students to the use of computers for data communications. Students use local area networks (LANs) and telecommunications hardware and software to experience Internet, electronic mail and information services. (SFCC)

IS 162 - Data Communications and Networks (3 cr)

This is an intensive course covering a broad spectrum of telecommunications topics. Telecommunications processes, principles, protocols and media are discussed in depth. Students use telecommunications and network software, study the pros and cons of various systems. The OSI model is studied. (SFCC)

IS 210 - Internet Programming I (1-5 cr)

Students create web pages using XHTML and other scripting languages. Experience is gained in designing and structuring effective and accessible web pages, including pages with tables, forms and frames. Students format pages using cascading style sheets and advanced concepts, including Applets, Flash, XML and JavaScript for XHTML documents. Credits are determined by the successful completion of modules as required by the program or personal learning goals. This course may be repeated up to a maximum of 5 credits. (SFCC)

IS 212 - Internet Programming II (5 cr)

This course applies client-side Internet programming technologies to create dynamic web pages. Students are introduced to basic programming techniques using JavaScript and other scripting languages. Prior training in HTML is required. Prerequisite: IS 210. (SFCC)

IS 228 - Internet Servers (5 cr)

This course provides an overview of services installed on an Internet server. Email servers, web servers, database servers will be installed, configured, secured and managed on multiple platforms. Prerequisite: IS 262. (SFCC)

IS 234 - Computer Forensics I (5 cr)

Students learn to provide a secure computer environment and learn techniques for collecting and analyzing computer-related evidence. This class is designed to train computer technicians in the elements of computer forensics investigation. Prerequisite: IS 132 or permission of instructor. (SFCC)

IS 236 - Computer Forensics II (5 cr)

Students learn to provide a secure computer environment and learn techniques for collecting and analyzing computer-related evidence. This class is designed to train computer technicians in the elements of computer forensics investigation. Prerequisite: IS 234 or permission of instructor. (SFCC)

IS 244 - Network Security I (5 cr)

Network Security focuses on the fundamental principles of computer and network security. It is a survey of security fundamentals, networks threats, network operating systems security features, firewalls, virtual private networks, encryption and intrusion detection. Prerequisite: Permission of instructor. (SFCC)

IS 245 - Network Security II (5 cr)

This course is an introduction to the development of Network Systems defense and countermeasures. Students learn the steps utilized to respond to techniques used to compromise networks. It specifically leads students through the process of learning the foundations of network security, firewall implementation and intrusion detection. Prerequisite: IS 244 or permission of instructor. (SFCC)

IS 260 - Database Theory (5 cr)

This course serves as a foundation for working with all types of databases. It reviews what a database is and moves into the various database models such as hierarchical, network, relational, entity and object oriented. It also covers design concepts, SQL, normalization and database administration. Prerequisite: Permission of instructor. (SFCC)

IS 262 - Network Management (5 cr)

This is an intensive course in the technical management of computer networks including servers and workstations. Students, who are expected to understand the principles of telecommunications, will learn to install, manage and maintain a network. Microsoft and Linux are the primary software used. However, other Network Operating Systems (NOS) are installed. This course stresses concepts and practical usage of many types of NOS. Prerequisite: IS 162. (SFCC)

IS 266 - Cooperative Education Seminar (1-2 cr)

For course description, see Cooperative Education. (SFCC)

IS 267 - Cooperative Education Work Experience (1-18 cr) For course description, see Cooperative Education. (SFCC)

INFORMATION SYSTEMS AND TECHNOLOGY

ISIT 310 - Routing and Switching in the Enterprise (5 cr)

Familiarizes students with the equipment, applications and protocols installed in enterprise networks, with a focus on switched networks, IP Telephony requirements, and security. Students are introduced to the design, security and configuration of basic switched networks, VLANs and to the concepts of routing, router configuration. Advanced routing protocols such as Enhanced Interior Gateway Routing Protocol (EIGRP) and Open Shortest Path First (OSPF) Protocol are investigated. Recommended: IS 262 or equivalent. Prerequisite: Acceptance into the program or permission of instructor. (SFCC)

ISIT 332 - Data Warehousing (5 cr)

This course introduces and applies the concepts of design, implementation, management and troubleshooting of data warehousing, enterprise database technologies, data aggregation and configuration concepts. Technologies include Oracle, MS-SQL, Hadoop and data manipulation solutions. Prerequisite: Acceptance into the program or permission of instructor. (SFCC)

ISIT 344 - Virtualization and Storage (5 cr)

This course introduces and applies the concepts of design, implementation, management and troubleshooting of cloud computing, application, desktop and server virtualization, network virtualization and large storage systems. Technologies include VMWare and Storage Area Networks (SAN) solutions. Recommended: IS 262 or equivalent. Prerequisite: Acceptance into the program or permission of instructor. (SFCC)

ISIT 360 - Database Application Development (5 cr)

This course builds on previous coursework and/or experience to design and implement database back-ends and front-ends. Solutions include RDBMS and noSQL designs, and desktop / web-based front-ends. Previous database and coding experience is required. (SFCC)

ISIT 410 - Enterprise Server Administration (5 cr)

In this advanced course, build on previous network management coursework and/or experience, students learn to analyze the theory and concepts related to distributed systems, clustering principles, and Windows systems deployment and similar systems. (SFCC)

ISIT 444 - Automation/Configuration Managmentise (5 cr)

This course introduces and applies the concepts of design, implementation, management and troubleshooting of task automation, change management, configuration management, and log management in an enterprise computing environment. Examples of technologies include Powershell, Python, Windows Task Manger, and CRON. Recommended: CS 121, IS 262 or equivalent. Prerequisite: Acceptance into the program or permission of instructor. (SFCC)

ISIT 470 - Systems Analysis and Design (5 cr)

This course provides the opportunity to design, implement, and document the system development cycle in an organizational context. Course includes analysis of current systems, logical and physical systems design, program development, testing, implementation, maintenance, and documentation. (SFCC)

ISIT 475 - Capstone Internship (5 cr)

The internship is a capstone experience for IST majors and is intended to integrate practical work experience with the cumulative knowledge and skills obtained during your education. It is expected that you will develop personal, professional and additional academic competencies during the internship. In order to accomplish this, you will need to go beyond the common experiences of a normal employee. Study, reasoning, reflection and theoretical/conceptual exploration will be required for you to develop new skills and knowledge to get the most of the internship experience. The internship will last a minimum of 120 hours work in two or less quarters. This capstone course is a senior level course designed to allow the student to review, analyze and integrate the work the student has completed toward a degree in Information Systems Technology. The student will complete an approved academic project and paper that demonstrates mastery of their program of study in a meaningful culmination of their learning, and assesses their level of mastery of the stated outcomes of their degree requirements. (SFCC)

INTERPRETER TRAINING PROGRAM

ITP 104 - Introduction to Audiologic Rehabilitation/Habilitation (4 cr)

This course introduces the anatomy of the ear, the functions of the parts of the ear, types and function of hearing assistive devices. It is designed to furnish students with a basic understanding of the physiology, mechanics and the impact of hearing loss as well the habilitation/rehabilitation process. Prerequisite: Concurrent enrollment in ASL& 121. (SFCC)

ITP 231 - Theories of Discourse Analysis (3 cr)

This course will provide an introduction to discourse analysis as practiced by working interpreters. The primary focus will be to distinguish between different discourse analysis models and apply their ideas to the study and use of American Sign Language. Students will also be introduced to finding meaning, using appropriate ASL syntax, and how to use visualization and mind mapping for determining source message and constructing a target message. Prerequisite: ASL& 221 and concurrent enrollment in ASL& 222, ITP 104, 232. (SFCC)

ITP 232 - ASL Linguistic Principles (2 cr)

This course will apply linguistic theories to American Sign Language. Students will study the phonology, morphology, syntax and semantics and how they apply to and are used in ASL. Prerequisite: ASL& 221 and concurrent enrollment in ASL 222, ITP 104, 231. (SFCC)

ITP 233 - Manually Coded English Systems (5 cr)

This course is designed to introduce various systems of Manually Coded English (MCE) created for working with D/deaf and hard of hearing children, including the Rochester Method, Seeing Exact English (SEE-I), Signing Exact English (SEE-II), Cued Speech, Linguistics of Visual English (LOVE), and Conceptually Accurate Signed English (CASE). The primary focus will be to build vocabulary, receptive and expressive skills, and employ English grammatical structure using Signing Exact English (SEE-II). This course introduces approximately 400 vocabulary words as well as the affixes, contractions and prefixes used in SEE-II. Prerequisite: ASL& 222, ITP 232 and concurrent enrollment in ASL& 223. (SFCC)

ITP 241 - Deaf Social and Cultural Issues (5 cr)

This course is designed to provide an in-depth look at various aspects of Deaf Culture which were overviewed in ASL& 121, 122 and 123. Language, history, legal issues, cultural conflicts, and reflective views of cultural aspects of the Deaf community will be presented. Previously learned aspects of Deaf Culture will be expanded. Prerequisite: ASL & 123 and concurrent enrollment in ASL& 221, ITP 231. (SFCC)

ITP 245 - Ethics and Principles in Educational Interpreting (5 cr)

This course focuses on human rights, decision making models, ethical decision making and principles for interpreting in educational settings. Prerequisite: ASL& 223, ITP 233 and concurrent enrollment in ITP 251, 261, 281. (SFCC)

ITP 251 - Interpreting I (5 cr)

This course is designed to prepare the student with skills to receive information auditorally or visually and express that information in an equivalent message effectively, including affect, mood and inflection, using simultaneous interpreting methodologies. Prerequisite: ASL& 223, ITP 233 and concurrent enrollment in ITP 261, 281. (SFCC)

ITP 252 - Interpreting II (5 cr)

This course is designed to continue your preparation for exiting into an educational setting to work as an interpreter. You will continue to develop sign vocabulary appropriate for specific educational experiences, enhance receptive and expressive skills and work on speed and accuracy. You will learn to incorporate mime, physical movement, and ASL non-manual markers to assist in conveying meaning. Prerequisite: ITP 251, 261, 281 and concurrent enrollment in ITP 262, 282. (SFCC)

ITP 253 - Interpreting III (5 cr)

In this course, you will apply simultaneous interpreting skills so as to receive visual discourse and verbally gloss information effectively, including affect, mood, and inflection; receive auditory information and express the information in equivalent appropriate ASL information, including affect, mood and inflection. You will enhance your skills in use of non-manual markers to convey auditory meaning. Prerequisite: ITP 252, 262, 282 and concurrent enrollment in ITP 263, 283. (SFCC)

ITP 261 - Transliteration I (5 cr)

This course is designed to introduce transliterating and distinguishing between interpreting and transliterating. Students will work on sign-to-voice and voice-to-sign skills, increase vocabulary both expressively and receptively, and increase and improve grammar skills in consecutive transliterating. Prerequisite: ASL& 223, ITP 233 and concurrent enrollment in ITP 251, 261. (SFCC)

ITP 262 - Transliteration II (5 cr)

In this course, students will increase vocabulary, enhance receptive and expressive skills and improve speed and accuracy in voice-to-sign and sign-to-voice transliterating using simultaneous methodologies. Student will receive and express information effectively, using affect, mood and inflection to match the target language to the source language. Prerequisite: ITP 251, 261, 281 and concurrent enrollment in ITP 252, 282. (SFCC)

ITP 263 - Transliteration III (5 cr)

This course is designed to prepare student for exiting into the community to work as a transliterator in educational settings. Students will receive information in verbal and/or signed form and use appropriate transliteration procedures to relay the information, matching register, intention and content. Students will demonstrate appropriate switching techniques for both sign-to-voice and voice-to-sign, adhering to the Interpreter's Code of Professional Conduct. Prerequisite: ITP 252, 262, 282 and concurrent enrollment in ITP 253, 283. (SFCC)

ITP 281 - Applied Interpreting I (1 cr)

First of three separate opportunities to apply interpreting/transliterating skills. This first course requires observation and voice-to-sign or sign-to-voice in a mock interpreting environment where no Deaf people will be present. The goals of this course are to strengthen stamina in interpreting, predicting skills, and ability to stay within the interpreter's Code of Professional Conduct. Prerequisite: ASL& 223, ITP 233 and concurrent enrollment in ITP 251, 261. (SFCC)

ITP 282 - Applied Interpreting II (2 cr)

This second applied interpreting experience requires experience in the following categories: Observation and voice-to-sign and/or sign-to-voice in an interpreting environment in the public arena where no Deaf people will be present. Prerequisite: ASL& 123, ITP 251, 261, 281 and concurrent enrollment in ITP 252, 262. (SFCC)

ITP 283 - Applied Interpreting III (3 cr)

This is the third practicum and requires experience in the following categories: Observation and voice-to-sign and/or sign-to-voice interpreting/transliterating in an educational environment. Students will be placed in a school program under the supervision of an experienced interpreter/transliterator. Prerequisite: ITP 252, 262, 282 and concurrent enrollment in ITP 253, 263. (SFCC)

JAPN& 121 - Japanese I (5 cr)

Elementary Japanese is an introduction to Japanese language; conversation, composition, grammar and written Japanese. Discussion of culture and traditions. (SFCC)

JAPN& 122 - Japanese II (5 cr)

Elementary Japanese is an introduction to Japanese language; conversation, composition, grammar and written Japanese. Discussion of culture and traditions. Prerequisite: JAPN& 121 or permission of instructor. (SFCC)

JAPN& 123 - Japanese III (5 cr)

Elementary Japanese is an introduction to Japanese language; conversation, composition, grammar and written Japanese. Discussion of culture and traditions. Prerequisite: JAPN& 122 or permission of instructor. (SFCC)

JAPN& 221 - Japanese IV (5 cr)

Students increase their fluency and listening comprehension, master 200 kanjis and their "on" and "kun" readings, and learn to read short articles in newspapers and magazines. Prerequisite: JAPN& 123 or permission of instructor. (SFCC)

JAPN& 222 - Japanese V (5 cr)

Students increase their fluency and listening comprehension, master 200 kanjis and their "on" and "kun" readings, and learn to read short articles in newspapers and magazines. Prerequisite: JAPN& 221 or permission of instructor. (SFCC)

JAPN& 223 - Japanese VI (5 cr)

Students increase their fluency and listening comprehension, master 200 kanjis and their "on" and "kun" readings, and learn to read short articles in newspapers and magazines. Prerequisite: JAPN& 222 or permission of instructor. (SFCC)

JAPN 241 - Japanese Conversation and Culture (2 cr)

This is a conversation and culture course that is aimed at students who want to build on their current knowledge of Japanese culture and increase their confidence in communicating at an intermediate level. Students will practice speaking, listening, acquire practical proficiency. This course also familiarizes students with basic oral communication skills with an emphasis on idiomatic expressions, basic grammar and vocabulary to develop functional language skills. Repeatable up to four credits. Prerequisite: Two years of high school level Japanese, equivalent; JAPN& 121, 122. (SFCC)

JOURNALISM

JOURN 101 - College Newspaper Production I (3-5 cr)

Gain practical writing, layout and publishing experience by working on the college newspaper. Students plan, write, edit and design the newspaper that informs, educates and entertains the students, faculty and staff of the college. The newspaper is the creation of students who may earn from 3 to 5 credits. (SCC, SFCC)

JOURN 102 - College Newspaper Production II (3-5 cr)

This course helps students to further refine the writing, layout, and publishing skills developed in JOURN 101 by working on the college newspaper. Students plan, write, edit and design the newspaper that informs, educates and entertains the students, faculty and staff of the college. The newspaper is the creation of students who may earn from 3 to 5 credits. Prerequisite: Must have earned at least a 2.0 or better in JOURN 101. (SFCC)

JOURN 103 - College Newspaper Production III (3-5 cr)

This course helps students to further refine the writing, layout, and publishing skills developed in JOURN 102 by working on the college newspaper. Students plan, write, edit and design the newspaper that informs, educates and entertains the students, faculty and staff of the college. The newspaper is the creation of students who may earn from 3 to 5 credits. Prerequisite: Must have earned at least a 2.0 or better in JOURN 102. (SFCC)

JOURN 110 - Mass Media (5 cr)

Journalism 110 is an objective, thoughtful view of the mass media designed to help students better understand the impact these media have on our culture and professional lives. In addition to coverage of the traditional media (newspapers, television, radio, film, books), students will venture into emerging media (blogs, podcasts, independent audio documentary). Students will also examine how journalistic ethics, advertising, ownership, access, and the business of media influence modern cultural attitudes and perceptions of reality. (SCC, SFCC)

JOURN 201 - College Newspaper Production IV (3-5 cr)

This course helps students to further refine the writing, layout, and publishing skills developed in JOURN 103 by working on the college newspaper. Students plan, write, edit and design the newspaper that informs, educates and entertains the students, faculty and staff of the college. The newspaper is the creation of students who may earn from 3 to 5 credits. It is strongly recommended that a student have completed JOURN 220 before registering for this course. Prerequisite: SFCC only-Must have earned at least a 2.0 or better in JOURN 103. (SCC, SFCC)

JOURN 202 - College Newspaper Production V (3-5 cr)

This course helps students to further refine the writing, layout, and publishing skills developed in JOURN 201 by working on the college newspaper. Students plan, write, edit and design the newspaper that informs, educates and entertains the students, faculty and staff of the college. The newspaper is the creation of students who may earn from 3 to 5 credits. It is strongly recommended that a student have completed JOURN 220 before registering for this course. Prerequisite: Must have earned at least a 2.0 or better in JOURN 201. (SFCC)

JOURN 203 - College Newspaper Production VI (3-5 cr)

This course helps students to further refine the writing, layout, and publishing skills developed in JOURN 202 by working on the college newspaper. Students plan, write, edit and design the newspaper that informs, educates and entertains the students, faculty and staff of the college. The newspaper is the creation of students who may earn from 3 to 5 credits. It is strongly recommended that a student have completed JOURN 220 before registering for this course. Prerequisite: Must have earned at least a 2.0 or better in JOURN 202. (SFCC)

JOURN 220 - Introduction to News Writing (5 cr)

The emphasis of this course is on writing clear, concise articles for print or broadcast media. Students learn the basic techniques of organizing news and feature articles. In addition, interviewing skills, note taking and copy reading are stressed. (SCC, SFCC)

JOURN 221 - Digital News Production I (3 cr)

This is the first course in a three-course sequence. It provides students with a news lab environment in which they can apply digital news production skills in a deadline-based setting that mirrors industry. The course focuses on the production of video-based news content, the application of web fundamentals in a news environment and the application of multimedia design skills. Prerequisite: JOURN 103 or 225 or PHOTO 200 or permission of the instructor. (SFCC)

JOURN 222 - Digital News Production II (3 cr)

This course, the second in a three-course sequence, will provide students with a news lab environment in which they can apply digital news production skills in an deadline-based setting that mirrors industry. The course will focus on helping students develop skills for on-air presentation of news content, creating web page templates, creation of motion-based news packages, advanced video and audio editing and the development of an online, interactive portfolio. Prerequisite: JOURN 221. (SFCC)

JOURN 223 - Digital News Production III (3 cr)

This course, the third in a three-course sequence, will provide students with a news lab environment in which they can apply digital news production skills in an deadline-based setting that mirrors industry. The course will focus on all aspects of producing a news broadcast for the Web, on-location live-to-web production, search engine optimization (S.E.O.), podcast development, and the creation of web tutorials and screencasts. Prerequisite: JOURN 222. (SFCC)

JOURN 224 - Advanced News Reporting (5 cr)

This course is designed for students who wish to further refine the skills developed in JOURN 220. Students will focus on column/editorial writing, advanced feature writing, computer-assisted reporting and Associated Press writing style. This will be very writing-intensive course, focusing on both long-form and short-form storytelling techniques used in newspapers, magazines and the web. Prerequisite: 2.0 or better in JOURN 220 or permission of instructor. (SFCC)

JOURN 225 - Multimedia Journalism (5 cr)

This course introduces students to the fundamentals of storytelling in non-print media. By building on the basic newsgathering, interviewing and storytelling skills developed in JOURN 220, students will explore how various media can be employed to help reach disparate audiences in new and innovative ways. Prerequisite: JOURN 220. (SCC, SFCC)

PARALEGAL

LA 100 - Legal Careers Orientation (1 cr)

This course assists students in choosing careers in the legal field. Students acquire professional development plans. Prerequisite: 60 percentile/42 scaled score or better on the written section of the college's assessment test. (SCC)

LA 101 - Introduction to Paralegalism (2 cr)

Students learn the role of a paralegal in typical legal settings. Prerequisite: LA 100. (SCC)

LA 102 - Introduction to Legal Nursing (1 cr)

This course is a survey of the various roles for legal nurses across a spectrum of legal settings. Additionally, the course examines the professional demands, skills and expectations of the profession. Prerequisite: Permission of instructor/coordinator. (SCC)

LA 105 - Washington and Idaho Court Rules (3 cr)

Students learn to research Washington Court Rules for district, superior, appellate and federal court systems. Interpretation and application of rules as they relate to law office procedures are emphasized. Students also learn to distinguish procedural from substantive rules. The interrelationship of rules to the Washington Digest, Revised Code of Washington (RCW) and Appellate Court requirements is presented. Students review the Idaho Rules of Civil Procedures and Idaho rules of Criminal Procedure emphasizing how these rules differ from the Federal Rules of Civil Procedure. (SCC)

LA 110 - Legal Research and Writing (5 cr)

This course specifies practical use of legal resource tools on municipals, state and federal levels. Students learn to draft and prepare legal instruments and documents. Prerequisite: ENGL& 101. (SCC)

LA 118 - Instrument Drafting (3 cr)

This intensive course is for students who are at the end of their paralegal/legal nurse education. Frequent hands-on drafting, critiquing, editing, rewriting, and presenting representative legal instruments in litigation, domestic, criminal, real estate and commercial law are emphasized. Students can expect to experience a rapid improvement in their writing and thinking skills irrespective of their level prior to enrollment. Prerequisite: Permission of instructor. (SCC)

LA 120 - Law Office Computing (5 cr)

Students are introduced to high levels of streamlining and automating word processing functions in a law office. Macros, merging, creating, editing and formatting legal documents are emphasized. Prerequisite: Two college-level computer classes (CIS or LSEC) with a grade of 2.0 or higher; one of which must be LSEC 239. (SCC)

LA 125 - Law Office Procedures and Technology (3 cr)

Survey of standard Law Office Procedures emphasizing professional organizational and critical thinking skills. Prerequisite: Permission of instructor/coordinator. (SCC)

LA 130 - Legal Ethics (1-3 cr)

This course introduces the rules of professional conduct that govern the practice of paralegals/LLLTs. Topics include conflicts of interest, confidentiality, professionalism, advertising and solicitation, client funds, etc. Prerequisite: Permission of instructor/coordinator. (SCC)

LA 135 - Professional Effectiveness (1 cr)

Students learn professional effectiveness and how to become successful in the legal environment. Prerequisite: Permission of instructor/coordinator. (SCC)

LA 201 - Introduction to Probate (3 cr)

Students study wills and the necessary administration of various categories of estates. Prerequisite: LA 110. (SCC)

LA 205 - Contracts (3 cr)

Survey of fundamentals of Contract Law emphasizing professional level legal reasoning and critical thinking skills. Prerequisite: Permission of instructor/coordinator. (SCC)

LA 207 - Domestic Relations and Estate Law (3 cr)

Students learn community property law characteristic of states in the western US. The law of marriage and dissolution of marriage is examined. Students study wills and the necessary administration of various categories of estates. (SCC)

LA 211 - Debtor-Creditor and Bankruptcy (3 cr)

Students study common law writs (attachments, garnishments, etc.), liquidation and reorganization bankruptcies, and the law of collection. Prerequisite: LA 110. (SCC)

LA 215 - Commercial Transaction (3 cr)

This course reviews the Uniform Commercial Code, commercial paper, bank and secure transactions, and electronic and bulk transfers. Various commercial statues are surveyed. (SCC)

LA 217 - Business Organizations (3 cr)

Students study partnership and corporation law for incorporation and administration of business in Washington state. (SCC)

LA 218 - Employment Law (3 cr)

Students review federal and state employment statutes governing hiring, termination, discrimination, affirmative action, workers' compensations and work-place safety. (SCC)

LA 219 - Criminal Law and Procedure (3 cr)

This course is an overview of the criminal justice system emphasizing the constitutional framework of criminal procedure. Prerequisite: LA 110. (SCC)

LA 220 - Torts (3 cr)

This course is a study of law that provides redress and compensation through a civil action. (SCC)

LA 221 - Property and Real Estate Transactions I (3 cr)

This course surveys Real Property Law covering estates in land. Real estate transactions including fundamentals of conveyancing law and statutes of frauds are emphasized. (SCC)

LA 223 - Interview and Investigation Techniques (3 cr)

Survey of commonly used and professionally appropriate Interviewing and Investigative Techniques emphasizing ethical standards, and critical reasoning and organizational skills. Prerequisite: Permission of instructor/coordinator. (SCC)

LA 225 - Trial Preparation and Procedures (3 cr)

Students study civil procedures and preparation of trial materials and their application to court rules. Pretrial preparation also is covered. (SCC)

LA 230 - Insurance Law (3 cr)

This course covers basic insurance terminology and presents a working knowledge of insurance laws that are frequently encountered in today's law office. (SCC)

LA 240 - Special Issues Seminar (1-10 cr)

Students survey various areas of the law, learn skills in critical thinking, and review new and emerging issues. The substance of the course varies. Prerequisite: Permission of instructor/coordinator. (SCC)

LA 245 - Supervised Legal Work Experience (1-8 cr)

This course provides an in-depth clinical experience required for all students enrolled in the paralegal or legal nurse programs. Students are supervised in the clinic by attorneys and the legal program coordinator. Students receive thorough experience in law office practices and procedures. Progress is monitored through a combination of in-class seminars and individualized instructor contact. Grading option: Pass/Fail. Prerequisite: Permission of instructor/coordinator. (SCC)

LA 285 - Legal Office Internship (1-3 cr)

This course provides on-the-job learning experience for students while they attend classes at SCC. Students are able to apply the principles learned in the program to work in a law or law-related office under the supervision of an attorney or other legal professional. Grading option: Pass/Fail. Prerequisite: Permission of instructor/coordinator. (SCC)

LINE CONSTRUCTION

LINE 101 - Line Construction I (17 cr)

This course introduces students to line construction basics. Safety training, pole climbing and fundamentals of electricity are emphasized. The safe operation of a variety of equipment is covered. (SCC)

LINE 102 - Line Construction II (16 cr)

This course continues with the concepts introduced in LINE 101. Overhead and underground line construction, radio communications, safety, pole climbing, and interpretation of job prints and standards are emphasized. (SCC)

LINE 103 - Line Construction III (16 cr)

This course continues with advanced concepts in line construction. Radio communications, overhead and underground construction methods, advanced concepts in electricity, and the interpretation of job prints and standards are emphasized. Cooperative education training and certification are also covered. (SCC)

LIBRARY AND INFORMATION SERVICES

LMLIB 100 - Introduction to Library Organizations and Careers (3 cr)

Students are introduced to the historical, functional, and organizational structure of libraries. Current library services; philosophy, and terminology are emphasized. Students demonstrate knowledge about the role of the library technician as a member of library organizations. Students will explore professional organizations, employment outlook and identify a possible career path. (SFCC)

LMLIB 115 - Introduction to Library Organizational Systems (5 cr)

Students learn various systems used to organize and recall library materials with an emphasis on classification systems; filing rules; searching library catalog records; and an introduction to database structure. Prerequisite: Concurrent enrollment in LMLIB 100. (SFCC)

LMLIB 116 - Introduction to Circulation Systems and Services (5 cr)

Students are introduced to library circulation systems and services by engaging in practical experience using software. Students are introduced to policies associated with circulation services. Prerequisite: Concurrent enrolled in LMLIB 100. (SFCC)

LMLIB 117 - Access and Outreach Services (5 cr)

Students are introduced to common policies and procedures covering access services including: InterLibrary Loan, library security issues, and collection maintenance. Students also are introduced to outreach services in public libraries which includes customer service issues and best practices serving various types of users. This course is generally offered Spring Quarter. Prerequisite: LMLIB 116; Must be taken in sequence or permission of instructor. (SFCC)

LMLIB 125 - School Libraries and Media Centers (5 cr)

This is an introductory course for students interested in school library and media centers management and materials. An overview of the role and function of school libraries and media centers; information literacy standards and media materials management are presented. (SFCC)

LMLIB 126 - Library Technology and Services for Educational Support (3 cr)

Students are introduced to the role of libraries and technology in providing support in the educational environment. Technology literacy and a review of library-based online services for educational support will be explored. (SFCC)

LMLIB 135 - Children's Literature and Library Services (5 cr)

Fairy tales and other works emerging from oral tradition, picture books, poetry, juvenile novels, non-fiction and informational books will be evaluated in terms of what they have to offer to children. Students will read and review children's literature and view audio-visual media associated with selected children's stories. Students will create presentations using children's literature and examine library services designed for children. (SFCC)

LMLIB 220 - Technical Services II: Cataloging (5 cr)

Students will prepare bibliographic descriptions based on Anglo-American Cataloging Rules, 2nd ed., Revised, with emphasis on cataloging from copy. Some original cataloging is covered also, including assignment of main and added entries, assignment of subject headings and classification numbers and assignment of Cutter numbers. (SFCC)

LMLIB 222 - Reference and Information Services (5 cr)

Students are introduced to the role of reference services in libraries. This includes the reference interview; reference tools and resources; evaluating, searching, and providing access to information resources as part of the research process and evaluation of materials as part of the evolution of library collections. (SFCC)

LMLIB 224 - Research Topics and Projects in Library Service (3 cr)

The course content is designed to meet specific skill levels for individual students. The course content varies depending on research and/or project and the number of credits chosen and established guidelines allow students to research special areas of interest. Students have the opportunity to refine or expand their library technician skills working on an independent project or topic. All research and/or projects must be agreed upon by the instructor and student. Prerequisite: Permission of instructor. (SFCC)

LMLIB 266 - Cooperative Education Seminar (1-2 cr) For course description, see Cooperative Education. (SFCC)

LMLIB 267 - Cooperative Education Work Experience (1-6 cr)

For course description, see Cooperative Education. (SFCC)

LMLIB 280 - Library Employment and Workplace Issues (3 cr)

Students study areas such as self-awareness and assessment, career awareness and exploration, career decision making, career planning and placement, success factors and attitudes on the job, motivation and initiative, human behavior and relations, and employability skills. Prerequisite: Permission of instructor/coordinator. (SFCC)

LMLIB 281 - Library Paraprofessional Practicum (3 cr)

Students are placed in a library, school, archives or other setting commensurate with their intended career goal. Key professional competencies are developed incorporating elements of teaching and learning. Integration of theory and practice is accomplished through instructor-led content and completion of a practicum project, either online or on-site in the field. Permission of instructor required. (SFCC)

LMLIB 288 - Cooperative Education Work Experience

(No Seminar) (1-3 cr)

For course description, see Cooperative Education. (SFCC)

LEGAL ADMINISTRATIVE ASSISTANT

LSEC 216 - Legal Office Procedures (5 cr)

Students will build a foundation in technology and legal applications, and continue to develop vocabulary to prepare them to work effectively in law or legally related offices. Students will discuss ethics as they apply to the law office, explore electronic discovery, and develop self-reliance in relation to legal software programs, confidentiality, virtual law offices, and positive human relations techniques. Critical thinking skills are addressed. Prerequisite: LSEC 239 with a 2.5 grade or higher, or permission of instructor. (SCC)

LSEC 233 - Legal Office Practice (5 cr)

Students study the integration of decision-making with skills in the areas of legal software, timekeeping and billing, PDF file creation, database management, electronic discovery, and litigation support software; the course also explores how legal professionals manage offices and deliver services to clients. Prerequisite: LSEC 239 with a 2.5 grade or higher, or permission of instructor. (SCC)

LSEC 236 - Legal Terminology (5 cr)

Students learn legal terminology and study ethics, the court system, wills, probates and guardianships, partnerships and corporations, and real estate law. (SCC)

LSEC 237 - Legal Terminology (5 cr)

Students learn legal terminology and study litigation, torts, contracts, criminal law, family law, community property, and bankruptcy. (SCC)

LSEC 239 - Legal Formatting (5 cr)

Students develop skills on personal computers, competencies in the production of legal documents used in legal and legally related offices and courts, and critical thinking skills in legal applications. Prerequisite: Keyboarding skills of 40 wpm on a 3-minute timing with 6 errors or less; or a 2.5 or higher in ENGL& 101. (SCC)

LSEC 244 - Legal Machine Transcription (5 cr)

Students develop proficiency in producing rough draft and usable legal copy from voice transcribers. Prerequisite: LSEC 239 with a 2.5 grade or higher, or permission of instructor. (SCC)

LSEC 285 - Legal Office Internship (3 cr)

Students apply their office and human relations skills during this 99-hour internship at a law office or law-related office or court. Intern sites meet individual needs of students and complement their program. Grading option: Pass/Fail. Prerequisite: Completion of LSEC 233, 236, 237, 239, and 244; all classes require a grade of 2.5 or higher, or permission of instructor. (SCC)

MEDICAL ASSISTANT

MA 101 - Administrative Medical Assistant I (5 cr)

This course introduces students to the medical assistant profession and the office environment. Professional organizations, federal regulations and requirements, and legal concepts for the field are emphasized. Prerequisite: Admission into the medical assistant program and CIS 110. (SCC)

MA 102 - Clinical Medical Assistant I (3 cr)

This course introduces students to hands-on patient care. Topics include the role of the medical assistant in patient care, nutrition, vital signs and measurements. Prerequisite: Admission into the medical assistant program and CIS 110. (SCC)

MA 107 - Basic Medical Assisting (3 cr)

Students are introduced to the basic skills and knowledge necessary for medical assistants in a typical medical office environment. Upon successful completion of this course students will earn their HCP CPR card, NSC First Aid Card, HIV/AIDS certificate, and NSC Emergency Preparedness card. Prerequisite: HED 105. (SCC)

MA 111 - Administrative Medical Assistant II (3 cr)

Students work with medical office computer applications. Medical records and patient scheduling are introduced. Other topics include written communications and provider schedule management. Prerequisite: MA 101, 102. (SCC)

MA 112 - Clinical Medical Assistant II (5 cr)

This course submerges students in the clinical phase of medical assisting. Topics include patient history, interviews and documentation, asepsis, infection and disease control, basic physical exams, principles of x-ray and EKG equipment, rehabilitative medicine, emergencies, and first aid. Prerequisite: MA 101, 102. (SCC)

MA 122 - Clinical Medical Assistant III: Phlebotomy and IV Therapy (5 cr)

This course offers advanced clinical skills for the medical assistant. Specialty exams and sterile procedures are emphasized. Students learn about collecting and processing laboratory specimens, and the proper use of microscopes. An overview of microbiology also is offered. Prerequisite: HED 108, 125, MA 111, 112. (SCC)

MA 125 - Ambulatory Care Setting Pharmacology (5 cr)

This course covers principles of pharmacology. Medication classifications will be studied according to body system and usage. Students will learn the different routes for medication administration, medication actions, contraindications and side effects. Prerequisite: Successful completion of MA 101, 102, 111, 112 and concurrent enrollment in HIM 120, MA 122. (SCC)

MA 131 - Practice Finances and Management (3 cr)

This course offers advanced administrative skills for the medical assistant. Topics include practice finances, accounting practices and the medical assistant in the roll of an office manager. Prerequisite: HED 109, MA 122. (SCC)

MA 132 - Clinical Medical Assistant IV (5 cr)

This is the final course in preparation for clinical practice. The content is concentrated on injection and venipuncture techniques. Medication administration and dosage calculations are covered. Prerequisite: HED 109, MA 122. (SCC)

MA 141 - Medical Assistant Seminar (1 cr)

Topics covered enhance students' abilities at the clinical site. They review important topics by applying the concepts required in the clinical area. Mock national certificate exams are offered. Prerequisite: HED 109, MA 122, 131, 132. (SCC)

MA 142 - Medical Assistant Externship (6 cr)

Students work under the supervision of facility personnel or the instructor in a physician's office. They utilize and apply the administrative and clinical skills learned in an actual ambulatory care setting. Prerequisite: HED 109, MA 122, 131, 132. (SCC)

MACHINIST/CNC TECHNOLOGY

MACH 106 - Blueprint Reading (7 cr)

Students learn to demonstrate basic competency in blueprint reading. (SCC)

MACH 107 - Precision Measurement and Tools (3 cr)

Students learn to demonstrate basic competency in the use of precision measurement and tools. (SCC)

MACH 113 - Beginning Blueprint (2 cr)

Students learn basic blueprint reading with emphasis on the accurate interpretation of blueprints and sketches. Prerequisite: Concurrent enrollment in MACH 114, 115 or permission of instructor. (SCC)

MACH 114 - Introduction to Machine Shop I (5 cr)

Students are introduced to the manufacturing processes and the equipment and hardware used to shape and form materials. Practical application includes basic layout techniques, the use of measuring tools and shop safety practices. (SCC)

MACH 115 - Introduction to Machine Tools (5 cr)

Students are introduced to the tools, equipment and processes common to a machine shop with emphasis on their proper selection and use. Prerequisite: Concurrent enrollment in MACH 113, 114 or permission of instructor. (SCC)

MACH 116 - Introduction to Machine Shop II (5 cr)

This course continues with the applications introduced in MACH 114 emphasizing the manufacturing processes, equipment and hardware used to shape and form materials. Basic layout techniques, the use of measuring tools and shop safety practices are stressed. (SCC)

MACH 123 - Machine Tool Operations I (6 cr)

Students are introduced to theory and practical shop experience used in basic machining operations with emphasis on the safe operation of sawing and drilling machines. Prerequisite: MACH 113, 116. (SCC)

MACH 124 - Blueprint II (2 cr)

Students learn theory and practical applications in the basics of shop sketching. Basic lines and forms and freehand lettering are emphasized. Prerequisite: MACH 113 and concurrent enrollment in MACH 123, 125 or permission of instructor. (SCC)

MACH 125 - Machine Shop Math I (1-2 cr)

Students are introduced to the math principles and applications to machine shop procedures. Emphasis range from the calculation of percentages to practical algebra. Prerequisite: MACH 114 and concurrent enrollment in MACH 123, 124 or permission of instructor. (SCC)

MACH 126 - Machine Tool Operations II (7 cr)

This course continues with the concepts introduced in MACH 123. Students acquire practical shop experience in basic machining operations. The safe operation of sawing and drilling machines is emphasized. Prerequisite: MACH 113, 116. (SCC)

MACH 133 - Machine Tool Operations III (7 cr)

This course emphasizes the safe operation of lathes and their accessory equipment. Prerequisite: MACH 123, 126. (SCC)

MACH 134 - Machine Shop Math II (1-2 cr)

This course continues with the concepts introduced in MACH 125. Geometric construction and basic concepts of trigonometry are emphasized. Prerequisite: MACH 125 and concurrent enrollment in MACH 133, 135 or permission of instructor. (SCC)

MACH 135 - Blueprint III (2 cr)

This course continues with the concepts introduced in MACH 113 and 124. Practical experience in the interpretation and generation of special view drawings is emphasized. Prerequisite: MACH 124 and concurrent enrollment in MACH 133, 134 or permission of instructor. (SCC)

MACH 136 - Machine Tool Operations IV (7 cr)

This course continues with the concepts introduced in MACH 133. Practical applications in the safe operation of lathes and their accessory equipment are emphasized. Prerequisite: MACH 123, 126. (SCC)

MACH 138 - Manufacturing Standards/Quality (3 cr)

Students will become aware of the manufacturing standards that are used in composites and aerospace manufacturing industries. Students will learn how to chart Statistical Process Control data and utilize that information to solve problems in the manufacturing process. Students will explore the Material Data Sheet system to understand safety precautions, handling methods and disposal requirements of materials used in the composites industry. In the lab portion of the class students will have an opportunity to apply this theory on practical exercises. Lab time will also be devoted to the use and understanding of Quality Inspection tools used in advanced part inspection. (SCC)

MACH 140 - Blueprint 1 (2 cr)

Students learn basic blueprint reading with emphasis on the accurate interpretation of blueprints and sketches. (SCC)

MACH 141 - Machine Theory I (2 cr)

Students are introduced to shop safety, mechanical hardware, drilling machine, bandsaw machine and engine lathe theory. (SCC)

MACH 142 - Shop I (8-10 cr)

Students are introduced to the manufacturing processes, equipment and hardware used to shape and form materials. Basic layout techniques, the use of measuring tools and shop safety practices are stressed, as well as basic operations on the Engine Lathe, drill press, and bandsaw. (SCC)

MACH 143 - Machine Tools (2 cr)

Students are introduced to the hand tools, measuring tools, equipment and processes common to a machine shop with emphasis on their proper selection and use. (SCC)

MACH 150 - Blueprint II (2 cr)

Students learn theory and practical applications in the basics of shop sketching. Basic lines and forms and freehand lettering are emphasized. Prerequisite: MACH 140. (SCC)

MACH 151 - Machine Theory II (2 cr)

The theory of manual milling machines and the operations performed on these machines are introduced. Vertical bandsaw setup and operation is stressed as well as job planning. (SCC)

MACH 152 - Shop II (8-10 cr)

This course continues from MACH 142, diving deeper into the operation of the engine lathe and its uses. The vertical milling machine is introduced in this course and further instruction in the use of measuring tools and shop safety practices are stressed. (SCC)

MACH 153 - Shop Math (2 cr)

Students are introduced to the math principles and applications to machine shop procedures. Emphasis range from the calculation of percentages to practical algebra, geometry to basic concepts of trigonometry. (SCC)

MACH 160 - Blueprint III (2 cr)

This course continues with the concepts introduced in MACH 140 and 150. Practical experience in the interpretation and generation of special view drawings is emphasized. Prerequisite: MACH 140, 150. (SCC)

MACH 161 - Machine Theory III (2 cr)

Precision grinding and horizontal machine theory are covered as well as intermediate lathe operations. (SCC)

MACH 162 - Shop III (8-10 cr)

This course continues with the concepts introduced in MACH 152 with application on the engine lathe and its attachments. Further milling machine techniques are emphasized. (SCC)

MACH 163 - Materials Science (2 cr)

Materials Science covers composition of standard steels, the AISI numbering system, basic metallurgy and an introduction to composite materials and their manufacturing processes. (SCC)

MACH 201 - Manufacturing Economics (1 cr)

This course is a study of the principles of manufacturing business economics. Profit, customer satisfaction, labor and industries, costs, value added, unit cost, employee benefits and overhead are emphasized. (SCC)

MACH 202 - Manufacturing Resource Management (1 cr)

This course is a study of the principles of manufacturing focusing on production rates, inventory control, budgeting, computer applications and scheduling. (SCC)

MACH 210 - Blueprint IV (2 cr)

This course presents theory and practical applications in the identification of structural shapes on blueprints. The generation of dimensioned working sketches of specific parts is emphasized. Prerequisite: MACH 160 or permission of instructor. (SCC)

MACH 211 - CNC Theory I (2 cr)

Students learn concepts required to accurately program and setup a CNC Milling Machine. Hand writing basic G & M Code programs using the manual method will be emphasized. Prerequisite: MACH 161 or permission of instructor. (SCC)

MACH 212 - Shop IV (8-10 cr)

Students work in the Machine shop environment gaining hands on experience programming, setting up, and operating CNC Mills. Prerequisite: MACH 162 or permission of instructor. (SCC)

MACH 213 - GD & T (2 cr)

This course is an introduction to the Geometric Dimensioning and Tolerance Y14.5-2009 standard. Students will learn the symbols used and how to interpret them. Inspection methods and techniques required to meet the GD & T requirements will be emphasized. Prerequisite: MACH 160 or permission of instructor. (SCC)

MACH 220 - Blueprint V (2 cr)

This course continues to develop the students' ability to interpret mechanical drawings. Students will study more complex multi-scale and assembly drawings. Prerequisite: MACH 210 or permission of instructor. (SCC)

MACH 221 - CNC Theory II (2 cr)

Students learn concepts required to accurately program and setup a CNC Lathe. Hand writing basic G & M Code programs using the manual method will be emphasized. Prerequisite: MACH 211 or permission of instructor. (SCC)

MACH 222 - Shop V (10 cr)

Students work in the machine shop environment gaining hands on experience programming, setting up, and operating CNC Lathes. Prerequisite: MACH 212 or permission of instructor. (SCC)

MACH 223 - Quality Control (2 cr)

This course prepares students to demonstrate competency in areas of manufacturing including qualify control, part inspection, and precision measurements. Fundamentals of Statistical Process Control are emphasized. (SCC)

MACH 230 - Blueprint VI (2 cr)

This course develops the students' ability to interpret advanced mechanical drawings. Complex assemblies and close tolerance parts with Geometric Dimensioning and Tolerance callouts will be examined. Prerequisite: MACH 220 or permission of instructor. (SCC)

MACH 231 - CNC Theory III (2 cr)

Students learn more advanced concepts required to accurately program and setup CNC Mills and Lathes. Multiple work stations and multiple axis programming will be emphasized. Prerequisite: MACH 221 or permission of instructor. (SCC)

MACH 232 - Shop VI (10 cr)

Students work in the machine shop environment gaining hands on experience programming, setting up and operating CNC mills and lathes. Prerequisite: MACH 222 or permission of instructor. (SCC)

MACH 233 - Manufacturing Economics (2 cr)

This course introduces the basic principles of the operation of a small manufacturing company. (SCC)

MACH 243 - Machine Tool Operations V (8 cr)

This course emphasizes practical applications in the safe operation of vertical and horizontal milling machines. Prerequisite: MACH 133, 136. (SCC)

MACH 244 - Blueprint IV (2 cr)

This course presents theory and practical applications in the identification of structural steel shapes on blueprints. The generation of dimensioned working sketches of specific parts is emphasized. Prerequisite: MACH 125 and concurrent enrollment in MACH 243 or permission of instructor. (SCC)

MACH 246 - Machine Tool Operations VI (5 cr)

This course continues with the concepts introduced in MACH 243. Practical applications in the safe operation of vertical and horizontal milling machines are emphasized. Prerequisite: MACH 133, 136. (SCC)

MACH 247 - CNC Theory (5 cr)

Students learn to demonstrate basic competency in CNC programs and the operation of mills and lathes. (SCC)

MACH 248 - CNC Lab (5-7 cr)

This course continues with the concepts introduced in MACH 247 to prepare students to demonstrate basic competency in the manufacturing of CNC programs and the operation of mills and lathes. (SCC)

MACH 249 - Quality Control (4 cr)

This course prepares students to demonstrate competency in areas of manufacturing including quality control and part inspection, precision measurements, and the engineers' interpretation of drawings. (SCC)

MACH 250 - CNC Production Theory (5 cr)

This course prepares students to demonstrate competency in areas of the manufacturing industry that include basic CNC programming, intermediate CNC milling and turning operations, and CNC production. (SCC)

MACH 251 - CNC Production Lab (7 cr)

This course continues with the concepts introduced in MACH 250 preparing students to demonstrate competency in areas of the manufacturing industry that includes basic CNC programming, intermediate CNC milling and turning operations, and CNC production. (SCC)

MACH 254 - Blueprint V (2 cr)

This course introduces practical applications in the generation of multiscale, assembly and detail drawings. Prerequisite: MACH 244. (SCC)

MACH 257 - Computer Aided Machining (2-5 cr)

Students are introduced to the theory and practice of machine processes controlled by computers. Milling center and turning center functions, the role of the computer in controlling machine functions, and basic tool processes and machining practices are emphasized. Prerequisite: Machinist experience or permission of instructor. (SCC)

MACH 258 - Advanced Computer Aided Machining (2-5 cr)

This course continues with the concepts introduced in MACH 257 with emphasis on the practical application of producing two-dimensional drawings in computer aided design (CAD), creating a computer aided manufacturing post-process of the drawing, transferring the output to a milling center, and finalizing the practices with a completed machine product from stock materials. Prerequisite: MACH 257 or permission of instructor. (SCC)

MACH 261 - CNC Production Applications (6 cr)

This course focuses on modern computer-numeric control (CNC) production techniques common to small and large manufacturers. Students participate in actual production applications on CNC milling and turning centers and the use of self-developed computer programs. (SCC)

MACH 262 - CNC Programming (3 cr)

Students learn to program CNC machining centers using computer languages common to the industry. (SCC)

MACH 266 - Cooperative Education Seminar (1-2 cr)

For course description, see Cooperative Education. (SCC)

MACH 267 - Cooperative Education Work Experience (1-18 cr)

For course description, see Cooperative Education. (SCC)

MACH 288 - Cooperative Education Work Experience (No Seminar) (1-18 cr)

For course description, see Cooperative Education. (SCC)

MATHEMATICS

MATH 020 - Mathematics Center 1 (1-5 cr)

This course covers basic fundamentals of arithmetic including whole numbers, fractions, decimals, ratios, proportions and percentages. It is offered as a variable credit individualized program and designed for students who have a limited background in math. (SCC, SFCC)

MATH 021 - Developmental Math (5 cr)

This course covers basic fundamentals of mathematics for students who need review of numerous topics taught between grades seven and twelve. Whole numbers, fractions, decimals, ratios, proportions, percentages, powers and roots, integers, and algebraic equations are emphasized. (SCC, SFCC)

MATH 030 - Introduction to Texas Instruments Calculators (1 cr)

This course introduces Texas Instruments graphing calculators to students taking MATH 099 or above. Basic calculator functions, graphing and equation solving, and regression equations are emphasized. Prerequisite: Assessment of placement into MATH 099 or higher. (SCC, SFCC)

MATH 035 - The Metric System (1 cr)

Audio-tutorial learning program offered through the math center with emphasis on learning to use metric units naturally: To conceptualize in meters, liters, grams, degrees, Celcius, etc., without tedious conversions from the customary U.S. units. (SFCC)

MATH 070 - Basic Mathematics I (2 cr)

This course is the first course in a three course sequence which is intended for students who have studied Arithmetic but are not ready for Elementary Algebra. Topics will include whole numbers, integers and statistics. Prerequisite: Appropriate placement score. (SFCC)

MATH 071 - Basic Mathematics II (2 cr)

This course is the second course in a three course sequence which is intended for students who have studied Arithmetic but are not ready for Elementary Algebra. Topics will include fractions, decimals and percents. Prerequisite: MATH 070 with a 2.0 or better. (SFCC)

MATH 072 - Basic Mathematics III (2 cr)

This course is the third course in a three course sequence and is intended for students who have studied Arithmetic but are not ready for Elementary Algebra. Topics will include ratios, proportions, geometry and an introduction to algebra. Prerequisite: MATH 071 with a 2.0 or better. (SFCC)

MATH 087 - Algebra for Math Literacy I (5 cr)

This course is the first course in a two quarter sequence leading to Math 107, Math& 146 and Phil 120. Topics include simplifying expressions, creating and interpreting scatterplots, percent change, ratios, rates and proportions. Prerequisite: SCC-Math 21 with a 2.0 or better within the last three years; or appropriate placement score; SFCC-Math 21 or 90 with a 2.0 or better within the last three years; or appropriate placement score. (SCC, SFCC)

MATH 088 - Algebra for Math Literacy II (5 cr)

This course is the second course in a two-quarter sequence leading to Math& 107, Math& 146, and Phil& 120. Topics include algebraic models of linear, quadratic and exponential functions, equations of lines, systems of equations, direct and inverse variation, descriptive statistics. Prerequisite: Math 087, 091, or 093 with a 2.0 or better within the last three years; or an appropriate placement score. (SFCC, SCC)

MATH 089 - Math Prep for the Sciences (1 cr)

This course provides a mathematical foundation for students who will be taking introductory science courses. Subjects covered include the metric system, dimensional analysis, scientific notation, significant figures using a scientific calculator, and translating word problems from all areas of science. (SCC)

MATH 090 - Pre-Algebra (5 cr)

A course intended for students who have studied arithmetic but who are not ready for elementary algebra. Numerous introductory topics from grades 9 through 12 are covered which may include operations with signed numbers and rational numbers, simple algebraic equations, properties of real numbers, prime numbers and factoring, exponents and roots, geometric concepts, basic graphs, metrics, basic inequalities, or absolute value. Prerequisite: MATH 021 with 2.0 or better or appropriate placement score. (SFCC)

MATH 091 - Elementary Algebra I (5 cr)

This course covers beginning algebra concepts for students without high school algebra or those who need a review. Topics will include real numbers, algebraic expressions, equations and inequalities, polynomials and graphing. Other topics may include factoring. Prerequisite: SCC-Math 21 with a 2.0 or better within the last three years; or appropriate placement score; SFCC-Math 21 or 90 with a 2.0 or better within the last three years; or appropriate placement score. (SCC, SFCC)

MATH 092 - Elementary Algebra II (5 cr)

This course is a continuation of MATH 091. Topics include factoring, rational expressions, linear equations in two variables and systems of equations. Other topics may include radicals and quadratic equations. Prerequisite: MATH 091 with a 2.0 or better within the last three years; or appropriate placement score. (SCC, SFCC)

MATH 093 - Algebra I (5 cr)

This course covers beginning algebra concepts for students without high school algebra or those who need a review. Topics will include algebraic expressions, linear equations, lines, linear regression, inequalities, and graphing. Prerequisite: MATH 090 or 091 with a 2.0 or better; or appropriate placement score. (SFCC)

MATH 094 - Algebra II (5 cr)

This course is a continuation of MATH 093. Topics include exponents, radicals, power functions, quadratic (models, equations, translations), and right angle trigonometry. Prerequisite: MATH 091 or MATH 093 with a 2.0 or better within the last three years or appropriate placement score. (SFCC)

MATH 095 - Mathematics Center 2 (1-5 cr)

This course reviews arithmetic and pre-algebra and is offered as a variable credit individualized program in the Math Center for students preparing to take algebra. Prerequisite: Counselor or instructor referral. (SCC, SFCC)

MATH 096 - Introductory Algebra (5 cr)

This course covers introductory algebra skills. Topics include signed numbers, linear equations, graphing linear equations, linear systems of equations, polynomials and rational expressions. This course is designed for students who need a review of high school algebra. Prerequisite: SCC-Math 21 with a 2.0 or better within the last three years; or appropriate placement score; SFCC-Math 21 or 90 with a 2.0 or better within the last three years; or appropriate placement score. (SCC, SFCC)

MATH 097 - Intermediate Algebra: A Modeling Approach (5 cr)

This course covers intermediate algebra skills through a modeling approach. Topics include linear, quadratic and exponential functions, and introductions to geometry, probability, sequences and statistics. Prerequisite: MATH 091 and 092 or MATH 096 with a 2.0 or better within the last three years; or appropriate placement score. (SCC, SFCC)

MATH 098 - Algebra III (5 cr)

This course is a continuation of MATH 094 and covers intermediate algebra skills. Topics include sequences, rational expressions and equations, basic functions that include but are not limited to absolute value, exponential and logarithmic. Prerequisite: MATH 094 with a 2.0 or better or an appropriate placement score. (SFCC)

MATH 099 - Intermediate Algebra (5 cr)

This course covers intermediate algebra skills. Topics include a review of beginning algebra concepts, radicals, inequalities, functions and quadratic functions. Other topics may include exponential and logarithmic functions. Prerequisite: MATH 091 and 092 or 096 with a 2.0 or better within the last three years; or appropriate placement score. (SCC, SFCC)

MATH 100 - Vocational Technical Mathematics (1-6 cr)

Basic mathematics from whole numbers through elementary algebra and triangle trigonometry to fulfill the needs of professional/technical students at their current mathematical level. Courses are offered and objectives and credits determined by contract between math department and the requesting professional/technical program. Prerequisite: Registration in the requesting vocational area or permission of instructor. (SCC, SFCC)

MATH 104 - Computer Math (3 cr)

This course consists of general computer math concepts for all CIS AAS students. Students then continue with either math targeted to specific Network Design and Administration objectives or specific Software Development objectives. Prerequisite: MATH 91 with a 2.0 or better within the last three years; or appropriate placement score. Enrollment in the Network Design and Administration or Software Development program or permission of instructor and concurrently enrolled in CIS 106 or CIS 107. (SCC)

MATH& 107 - Math in Society (5 cr)

This course is an option for students needing to satisfy a post-intermediate algebra requirement in which the field of study does not necessitate a specific course. Traditional coursework is combined with a discussion of what mathematics is and does, in addition to an examination of problem-solving techniques. Specific topics may vary at the discretion of the instructor. Prerequisite: MATH 088, 097, 098 or 099 with a 2.0 or better within the last three years or appropriate placement score. (SCC, SFCC)

MATH 108 - College Algebra (3 cr)

This course bridges the gap between Intermediate Algebra and the next higher level math classes, specifically Pre-calculus. Topics in this course include, but are not limited to, functions, graphing, exponents, radicals, algebraic fractions, equations, inequalities, and various applications including the use of the graphing calculator. Course is not intended for students who have earned at least a 3.0 in MATH 099 or a 3.0 in MATH 098. Prerequisite: MATH 097, 098 or 099 with a 2.0 or better within the last three years or appropriate placement score. (SCC, SFCC)

MATH& 141 - Precalculus I (5 cr)

This course covers college algebra skills, which include polynomial, rational, exponential and logarithmic functions, systems of equations and matrix solutions, and graphs of polynomial functions. Other topics may include sequences, series and summations. Prerequisite: MATH 098 or MATH 099 with a 3.0 or better within the last three years or MATH 108 with a 2.0 or better within the last three years or appropriate placement score. (SCC, SFCC)

MATH& 142 - Precalculus II (5 cr)

This course introduces circular functions and analytic trigonometry needed for further study in mathematics. Other topics include sequences and series, mathematical induction, conic sections, rotation and translation of axes, DeMoivre's theorem and nth roots of complex numbers, or vectors in the plane. Prerequisite: MATH& 141 with a 2.0 or better within the last three years; or appropriate placement score. (SCC, SFCC)

MATH& 146 - Introduction to Stats (5 cr)

Descriptive statistics, probability, probability distributions, sampling methods, hypothesis testing, statistical inference, correlations, regression and analysis of variance are covered in this course. Prerequisite: MATH 088, 097, 098 or 099 with a 2.0 or better within the last three years; or appropriate placement score. (SFCC, SCC)

MATH& 148 - Business Calculus (5 cr)

A one-quarter introduction to differential and integral calculus. Specifically oriented for students in management, life sciences and social sciences. Prerequisite: MATH& 141 or MATH 201 with a 2.0 or better within the last three years; or appropriate placement score. (SCC, SFCC)

MATH& 151 - Calculus I (5 cr)

This is the first quarter of a three-quarter course in calculus and analytic geometry. This course includes an introduction to limits, rates of change and continuity. The course also deals with the definition of derivative of a function and rules of differentiation, curve sketching and other application of differentiation, introduction to integrals and the Fundamental Theorem of Calculus. Prerequisite: MATH& 141 and MATH& 142 with a 2.0 or better within the last three years; or appropriate placement score. (SCC, SFCC)

MATH& 152 - Calculus II (5 cr)

This is the second quarter of a three-quarter course in calculus and analytic geometry. This course also includes applications of integration, derivatives and integrals of exponential, logarithmic and the trigonometric functions, derivatives and integrals of hyperbolic functions and their inverses, indeterminate forms and L'Hopital's Rule, and techniques of integration. Other topics may include vectors and the geometry of space. Prerequisite: MATH& 151 with a 2.0 or better. (SCC, SFCC)

MATH& 153 - Calculus III (5 cr)

This is the third quarter of a three-quarter course in calculus and analytic geometry. This course includes an introduction to differential equations; parametric equations; polar, cylindrical and spherical coordinates; infinite sequences and series. Cylindrical and quadric surfaces, vector valued functions and their space curves, and derivatives and integrals of vector functions also are discussed. Prerequisite: MATH& 152 with a 2.0 or better. (SCC, SFCC)

MATH 201 - Introduction to Finite Mathematics (5 cr)

This course covers basics of mathematical models, including linear, quadratic and polynomial functions, systems of linear equations and inequalities, linear programming and matrices. Elementary concepts of probability and simulation are introduced. Particular emphasis is placed on business and social applications. Prerequisite: MATH 097, 098 or 099 with a 2.0 or better within the last three years; or appropriate placement score. (SCC, SFCC)

MATH 208 - Mathematics for Elementary Education - A (5 cr) This is the first course in a three course sequence designed for prospective teachers at the elementary school level, focusing on the following topics: Problem solving, set theory, elementary logic, numeration systems, number theory, and the structure of the system of real numbers. Prerequisite: MATH 097, 098 or 099 with a 2.0 or better; or appropriate placement score. (SFCC)

MATH 209 - Mathematics for Elementary Education - B (5 cr)

This is the second course in a three course sequence designed for prospective teachers at the elementary school level, focusing on the following topics: Statistics, probability, and the structure of the system of real numbers including integers, rational and irrational numbers. Prerequisite: MATH 208 with a 2.0 or better. (SFCC)

MATH 210 - Mathematics for Elementary Education - C (5 cr) This is the last course in a three course sequence designed for prospective teachers at the elementary school level, focusing on the following topics: Problem solving, structures of geometry, to include shapes, measurements, triangle congruencies, and the coordinate system. Prerequisite: MATH 208 with a 2.0 or better. (SFCC)

MATH 211 - Mathematics for Elementary Education I (5 cr)

This is the first course in a sequence designed for prospective teachers at the elementary school level, focusing on the following topics: Set theory, numeration systems, number theory, the structure of the system of real numbers and problem solving. Prerequisite: MATH 099 with a 2.0 or better within the last three years; or appropriate placement score. (SCC, SFCC)

MATH 212 - Mathematics for Elementary Education II (5 cr)

This is the second course in a sequence designed for prospective teachers at the elementary school level, focusing on the following topics: Statistics, geometry and measurement. Prerequisite: MATH 211 with a 2.0 or better within the last three years; or appropriate placement score. (SCC, SFCC)

MATH 213 - Geometry (5 cr)

This course is an introduction to the structure of geometry, the deductive reasoning process, and geometric figures and their properties. Euclidean and non-Euclidean topics are covered. Prerequisite: MATH 098 or 099 with a 2.0 or better within the last three years; or appropriate placement score. (SFCC)

MATH 220 - Elementary Linear Algebra (5 cr)

Introduction to linear transformations, matrix theory, vector products, finite dimensional spaces, subspaces, spanning sets, bases, eigenvalues and eigenvectors. Prerequisite: MATH& 152 with a 2.0 or better. (SFCC)

MATH 225 - Foundations of Mathematics (5 cr)

This course serves as an introduction to basic concepts of post-calculus mathematics. Topics include logic, methods of proof, set theory, relations and functions. Prerequisite: MATH& 152. (SFCC)

MATH 245 - Discrete Mathematics (5 cr)

An introduction to the theory of the mathematics found in computer science. Topics include logic, proofs, sets, counting, probability, matrices, functions and relations, graphs, and trees. Prerequisite: MATH& 151. (SCC, SFCC)

MATH& 254 - Calculus IV (5 cr)

A course designed to give students an introduction to the basic concepts of multivariable calculus using the tools of linear algebra as applicable; vector functions, real valued functions, differentiation of scalar functions, multiple integration, vector differentiation and integration, transformation of coordinates, Green's Theorem, Stoke's Theorem, Gauss' Theorem and Lagrange Multipliers. Prerequisite: MATH& 153 with a 2.0 or better. (SCC, SFCC)

MATH 274 - Elementary Differential Equations (5 cr)

An introduction to ordinary differential equations. Elementary methods of solutions to first-order equations, linear equations of second and higher order, and systems of first-order linear equations. Power series solutions, numerical methods and Laplace Transforms also are covered. Prerequisite: MATH& 153 with a 2.0 or better. (SFCC)

MILITARY SCIENCE

MILSC 101 - Introduction to Leadership I (2 cr)

This course is a nontechnical introduction to military science. Students increase self-confidence through team study and activities in basic drill, physical fitness, rappelling, leadership reaction course, first aid, making presentations and basic marksmanship. They learn fundamentals of leadership in a profession in both classroom and outdoor laboratory environments intended to develop students and help them cope with life as a student and as a productive member of society. Highly encouraged, but optional, participation in a one weekend exercise and participation in one-hour sessions of physical fitness are offered. (SFCC)

MILSC 102 - Introduction to Leadership II (2 cr)

Students learn and apply principles of effective leading and team development. This course helps students reinforce self-confidence through participation in physically and mentally challenging exercises with upper-division ROTC students. It is intended to help students develop skills needed to increase their chances of success in the college environment. Students develop communication skills to improve individual performance and group interaction. They relate organizational ethical values to the effectiveness of a leader. Highly encouraged, but optional, participation in one-hour sessions of physical fitness are offered. (SFCC)

MILSC 103 - Introduction to Leadership III (2 cr)

Students build on and apply principles of effective leading and team development in the classroom and at the leadership laboratory. They continue to develop self-confidence through participation in physically and mentally challenging exercises with upper-division ROTC students. They develop skills to increase chances of success in a college environment, with special emphasis on communication skills, individual performance, social skills and group interaction. Highly encouraged, but optional, participation in one weekend exercise and participation of one-hour sessions of physical fitness are offered (SFCC)

MILSC 201 - Self/Team Development (3 cr)

Students learn and apply ethics-based leadership skills that develop individual abilities and contribute to the building of effective teams of people. They develop skills in oral presentations, writing concisely, planning for events, coordination of group efforts, advanced first aid, land navigation and basic military tactics. They learn fundamentals of ROTC's Leadership Development Program. Two hours of classroom instruction and a required two-hour leadership lab each week are offered. Highly encouraged, but optional, participation in one weekend exercise and participation in one-hour sessions of physical fitness also are offered. (SFCC)

MILSC 202 - Individual/Team Military Tactics (3 cr)

This course is an introduction to individual and team aspects of military tactics in small unit operations. Includes use of radio communications, making safety assessments, movement techniques, planning for team safety/security and methods of pre-execution checks. Practical exercises with upper-division ROTC students are provided. Students learn techniques for training others as an aspect of continued leadership development. Two hours of classroom instruction and a required two-hour leadership lab each week are offered. Highly encouraged, but optional, participation in one weekend exercise and participation in one-hour sessions of physical fitness also are offered. (SFCC)

MILSC 203 - Team Leadership/Military Tactics (3 cr)

An examination of the role of leadership and management in the context of a small organization element is provided with this course. Topics covered include motivation, handling disruptive influences, counseling skills, leadership styles and group dynamics. Students have an opportunity to identify their own strengths and weaknesses as leaders and managers. The course is presented in the context of military leadership, but the concepts can be applied in any context where leadership and management are essential. Highly encouraged, but optional, participation in one weekend exercise and participation in one-hour sessions of physical fitness are offered. (SFCC)

MANAGEMENT

MMGT 100 - Supervised Volunteer Experience (1-3 cr)

Approved supervised volunteer community service experience in a nonprofit, government or service organization that teaches students the value of contributing back to the community in which they live and work. Students may receive variable credits for hours of approved supervised experience during a quarter. One credit is given for every 33 hours of volunteer experience documented. Grade option: Pass/Fail. (SCC)

MMGT 101 - Principles of Management (5 cr)

Fundamental principles of management as applied to business enterprise. Actual business situations are studied by applying basic management principles. (SCC, SFCC)

MMGT 105 - Small Business Marketing (2 cr)

Formerly SBM 105. Introduces students to marketing by examining marketing problems facing the small business owner today. Helps the small business owner better understand how to afford marketing research, select a great location, determine methods of pricing goods and services for profit, and understand customer buying habits. (SFCC)

MMGT 106 - How to Start a Small Business (5 cr)

Formerly SBM 101. This course offers an interesting and realistic look at the scope and trends of small business, the role and future of small business in our economy, and the advantages and disadvantages of owning a business. The main causes for business failure and success, the importance of preparing a business plan, and resources that are available to help the small business owner succeed also are addressed. The class is based on current information and hands-on participation by the student. (SFCC)

MMGT 111 - Mid-Management Seminar (1-2 cr)

A conference course for students enrolled in the mid-management program. Emphasis is on experiences and activities designed to practice and develop management qualities and the acceptance of responsibilities. (SFCC)

MMGT 112 - Mid-Management Seminar (1-2 cr)

A conference course for students enrolled in the mid-management program. Emphasis is on experiences and activities designed to practice and develop management qualities and the acceptance of responsibilities. (SFCC)

MMGT 113 - Mid-Management Seminar (1-2 cr)

A conference course for students enrolled in the mid-management program. Emphasis is on experiences and activities designed to practice and develop management qualities and the acceptance of responsibilities. (SFCC)

MMGT 125 - Social Media Marketing (5 cr)

This course provides an introduction to social media marketing (SMM). Special emphasis is placed on creating a social media marketing plan which uses social media platforms to positively influence consumers toward a brand, product, or service. (SCC, SFCC)

MMGT 126 - Search Engine Marketing (5 cr)

Search Engine Marketing is the process of promoting a Web site through both search engine optimization and search advertising. This course examines ways to improve traffic to the Web site by improving the ranking in search engine results and paid advertising. (SFCC)

MMGT 128 - Social Media Marketing Campaign (5 cr)

Students will complete a social media marketing campaign for an organization. Students will identify the organization's target market and the social media portals where they participate; set measurable goals; design innovative strategies and select appropriate social media portals, craft compelling content to attract and influence the intended audience, monitor and measure progress on a regular basis, and tune the social media marketing campaign to account for the ever changing nature of consumer tastes and the social Web. (SFCC)

MMGT 140 - Financial Statement Analysis (3 cr)

Tools and techniques necessary for evaluation of financial and operating performance of a modern business enterprise. Subjects include statement spreading, basic concepts and ratio analysis, trend analysis, external analysis, short-term liquidity and solvency, financial strength, and asset utilization. Prerequisite: ACCT& 201 or permission of instructor. (SFCC)

MMGT 150 - Principles of Retail Merchandising (5 cr)

Careers and opportunities in the retail field; an overview of store location, retail organization and merchandise management including promotion, pricing, salesmanship and inventory control methods. (SFCC)

MMGT 181 - Leadership Training-DEC (1-5 cr)

Students participate in practical applications of management and leadership techniques. These courses are associated with membership in Delta Epsilon Chi, a division of DECA. (SCC)

MMGT 182 - Leadership Training-DEC (1-5 cr)

Students participate in practical applications of management and leadership techniques. These courses are associated with membership in Delta Epsilon Chi, a division of DECA. (SCC)

MMGT 183 - Leadership Training-DEC (1-5 cr)

Students participate in practical applications of management and leadership techniques. These courses are associated with membership in Delta Epsilon Chi, a division of DECA. (SCC)

MMGT 191 - Leadership Training-DEC (1-5 cr)

Students participate in practical applications of management and leadership techniques. These courses are associated with membership in Delta Epsilon Chi, a division of DECA. (SCC)

MMGT 192 - Leadership Training-DEC (1-5 cr)

Students participate in practical applications of management and leadership techniques. These courses are associated with membership in Delta Epsilon Chi, a division of DECA. (SCC)

MMGT 193 - Leadership Training-DEC (1-5 cr)

Students participate in practical applications of management and leadership techniques. These courses are associated with membership in Delta Epsilon Chi, a division of DECA. (SCC)

MMGT 205 - Small Business Planning (5 cr)

The preparation of a small business plan for starting a small business. The plan will include business description, characteristics of the entrepreneur and the business planner, ownership, analysis of the industry, target customers and location, start-up costs, financial projections, and necessary licenses. The design of the course is to have a document to present to a possible lender or investor. (SCC)

MMGT 211 - Marketing (5 cr)

Introduction to the field of merchandise marketing; distribution of goods and services from producer to consumer and the place of marketing in our economy. (SCC, SFCC)

MMGT 212 - Retailing (5 cr)

Fundamentals of retailing including retail store operation, organization, merchandise management, sales promotion, customer relations and control. Prerequisite: BUS& 101 or permission of instructor. (SCC)

MMGT 218 - Fundamentals of Advertising (5 cr)

Introduction to the field of advertising: Planning, directing and coordinating advertising functions as a tool of marketing. (SCC, SFCC)

MMGT 220 - Professional Sales (3 cr)

Introduction to the principles and techniques of sales promotion. Develop an understanding of factors and personality traits necessary for professional sales. (SFCC)

MMGT 223 - Customer Service (3 cr)

This course focuses on creating and maintaining positive customer relations. Efficient and effective ways to deliver quality service and products are presented. Projecting a professional image, communicating with customers and handling complaints effectively, maintaining time management, and working with culturally diverse clients are emphasized. (SCC, SFCC)

MMGT 225 - Content, Social and Digital Marketing (5 cr)

In this course, students will explore the use of social media, digital media and content development to create platform strategies to connect with customers, increase sales and build brand. (SCC)

MMGT 229 - Introduction to Lean (3 cr)

This course covers procedures companies use to identify and eliminate waste. It provides basic definitions, real-world examples, and an introduction to such topics as the transparent workplace, lean product development, Just-in-Time methodologies, lean process improvement, controlling processes, and continuous improvement. (SFCC)

MMGT 231 - Human Resource Management (5 cr)

Techniques and principles of personnel supervision and administration including employee recruitment, job analysis, affirmative action, labor relations, compensation, performance appraisal, interviewing, motivation, training and development, and employee health and safety. (SCC, SFCC)

MMGT 243 - Fundamentals of Project Management (5 cr)

Project management is an effective method for executing and completing projects on time and within budget. Students will gain a working knowledge of the fundamentals of project management and be able to immediately use that knowledge to effectively manage work projects. This course introduces the concepts and methods required for creating a plan and effectively managing project scope, time, cost, human resources, communication, risk, and procurement management to produce quality deliverables. (SCC)

MMGT 244 - Introduction to Lean Six Sigma (2.5 cr)

Introduces the fundamentals of Lean Six Sigma providing a comprehensive understanding of what it is, background on the improvement methodologies used in a Six Sigma Process, important details on the necessary supporting infrastructure and provides examples of Lean Six Sigma in manufacturing, the office, order entry, warehousing and distribution, sales and R&D. (SCC)

MMGT 250 - Professional Sales (5 cr)

Develop skills in business development; sales prospects and qualifying buyers; relationship building, product knowledge, and post sales service; public relations theories, strategies and campaigns. (SCC)

MMGT 251 - Transportation Systems (3 cr)

This course will expose students to the major aspects of business logistics. Students will learn about modes of transportation, documents involved in the transportation of goods, and issues concerning rate negotiations. This course utilizes a "hands-on" approach in order for students to take information and apply it to their current and future work assignments. (SFCC)

MMGT 252 - Principles of Purchasing (3 cr)

This course provides the foundation of purchasing, supply contracts, and leasing including a knowledge of the laws governing the regulation of purchasing, contracts, leases, and out-sourcing. (SFCC)

MMGT 253 - Inventory Management (3 cr)

This course will introduce the concept of inventory and the relationship it has to a business. Students will become familiar with inventory systems, purchasing, and completing documentation. (SFCC)

MMGT 254 - Logistics and Supply Chain Management (3 cr)

This course will introduce students to the role of the logistics processes within the business environment. Students will develop and apply analytical and problem solving skills to find solutions to real-world issues. (SFCC)

MMGT 255 - Warehouse and Distribution Management (3 cr)

This course will familiarize students with the role of the warehousing function in the economy and its relationship to the logistics process. Students will develop and apply analytical and problem solving skills to find solutions to real-world issues. (SFCC)

MMGT 256 - Lean Leadership (5 cr)

This course is designed for development of leaders to enable them to apply the best practices and top tools and techniques of Lean. Discover how Lean impacts, profit, inventory, and quality to the customer. Learn the most common Lean tools and methods through this interactive class. Prerequisite: Previous or concurrent enrollment in CATT 241 and MMGT 243 is required. (SCC)

MMGT 267 - Cooperative Education Work Experience (1-18 cr)

For course description, see Cooperative Education. (SFCC)

MMGT 288 - Cooperative Education Work Experience (No Seminar) (1-18 cr)

For course description, see Cooperative Education. (SCC)

MMGT 325 - Legal Issues for Managers (5 cr)

This course explores the state and federal laws that affect management behavior and organizational practices including contracts, business organizations, employment law, product liability, safety issues, and environmental regulations. This course also examines issues surrounding business start-ups and intellectual property. Each student develops a portfolio of topics related to their career choice. (SFCC)

MMGT 340 - Applied Financial Management (5 cr)

This course will provide the application of financial management principles including the analysis of financial statements for planning and control, cash and capital budgeting, risk and return, capital structure, time value of money, and financing for both short and long-term requirements. Students will apply the basic tools and techniques used to evaluate small and medium-sized firms or entrepreneurial proposals as potential investment opportunities. (SFCC)

MMGT 341 - Applied Principles of Management (5 cr)

This course is the study of the theory and practice of management. Emphasis is placed on functions and strategy, structure, managerial planning, and decision making as well as the processes of organizing, leading, and controlling. Current organizational issues and trends will be integrated. (SFCC)

MMGT 342 - Project Management (5 cr)

This course is the study of the common framework and practices for applying project management practices in business. Topics include processes, interactions and common practices in the field of project management. Emphasis is placed on the knowledge area defined by the Project management Institute body of knowledge. This course will provide practical exercises and case studies. (SFCC)

MMGT 343 - Logistics and Inventory Control (5 cr)

This course introduces basic aspects of distribution, logistics and supply chain. A holistic approach is offered on the different functions and operations and how they interrelate and interact. Topics include key elements fundamental to logistic functions and their processes. Emphasis is placed on manufacturing and materials management and the supply chain relative to inventory requirements. This course provides practical exercises and case studies. (SFCC)

MMGT 344 - Business Information Systems (5 cr)

This course uses a case approach to business problem solving using advanced spreadsheeting and database applications. Students will apply critical thinking skills and logical design skills when preparing information for a business audience. (SFCC)

MMGT 350 - Marketing for Managers (5 cr)

Focus on the art and science of attracting, retaining and growing customers by creating superior customer value to the chosen target market. Build skills through case studies and through practice of marketing techniques. Current global issues and trends will be integrated. (SFCC)

MMGT 428 - Human Resource Management & Employment Law (5 cr)

This course examines the major trends in human resources management, including problems and issues faced by organizations and individuals in times of change. Students learn the responsibilities of the human resources department and the roles that the manager plays, both as a manager and as a client of the human resources department. Also included is the study of the law governing the employment relationship. Specific topics studied include employee access to job opportunities, employer information gathering, prohibited discriminatory employment practices, regulation of wages, hours, and benefits of employment occupational safety and health, the developing concept of unjust discharge, and regulations providing protection of retirement benefits. Each student selects a class topic and plans how to apply it to a business/company project. (SFCC)

MMGT 430 - Manufacturing Management (5 cr)

This course provides an introduction of the different types of manufacturing environments and associated modern operations concepts. The course outlines an historical perspective and working definition of manufacturing management and common language used. Content covers basic quality principles, process management, systems, production plan and control, Just-in-Time (JIT), science in manufacturing, and types among others. Emphasis is placed on a lean daily management system and principles of lean production. This course provides practical exercises and case studies. (SFCC)

MMGT 435 - Operations Management (5 cr)

This course helps students understand the role of operations management in an organization. Students will understand how the operations function transforms inputs to outputs in an efficient manner. The course covers the role of the operations manager in the design, implementation, and control of the organization's transformation processes, as well as the key role that issues of quality play in those processes. As a final project, each student applies techniques of operations management to a real business problem. (SFCC)

MMGT 440 - Healthcare Management (5 cr)

This course provides students with an overview of concepts and issues related to healthcare management. Through the examination of management topics and healthcare situations, the student will explore the skills and knowledge needed to be successful in a diverse healthcare environment. Topics include: healthcare leadership, organizational design as it relates to the uniqueness of healthcare organizations, managing professionals, and diversity in the workplace. (SFCC)

MMGT 450 - Entrepreneurship (5 cr)

This course explores how entrepreneurs develop, launch, and manage small business ventures utilizing creative and innovative managerial practices. Students will examine relevant entrepreneurship theory and practical techniques used by successful entrepreneurs. Students will focus on entrepreneurial opportunities, sources for start-up ideas, and the special challenges of starting a new venture, or changing an existing one. (SFCC)

MMGT 491 - Capstone Project (5 cr)

This course provides the opportunity for students to integrate and demonstrate the concepts of management to the real world. Students will complete a comprehensive analysis of a business and develop a long range, strategic plan including implementation and recommendations for change. Students will integrate and synthesize competencies from across the program and exhibit their ability to participate in and contribute to their chosen professional field through the successful completion of a written project. (SFCC)

MMGT 492 - Internship (5 cr)

This course is designed to provide students with major-related, supervised, evaluated practical training work experiences which may be paid or voluntary. Students are graded on the basis of documented learning acquired through hands-on new experiences in an actual work setting. (SFCC)

MEDICAL OFFICE SPECIALIST

MSEC 108 - Medical Office Computing (5 cr)

Students receive hands-on training using financial, scheduling, word processing and clinical database software packages utilizing a microcomputer. Prerequisite: Keyboarding skills. (SCC)

MSEC 120 - Human Relations/Communications for Medical Office Personnel (5 cr)

Students learn the principles of therapeutic communications, human growth and development and their application to specific medical circumstances. (SCC)

MSEC 121 - Medical Office Reception (5 cr)

This course introduces students to the profession of the administrative medical assistant and how it fits within the health care environment and health care teams. Topics include legal and ethical concepts, telephone and scheduling techniques, medical records management rules and regulations, and how to create a comfortable facility atmosphere. Students enhance their ability to research using the Internet and library, create written reports and make round-table presentations. Prerequisite: BT 231. (SCC)

MSEC 123 - Medical Office Coding (5 cr)

This course introduces the identification of diagnoses and services by code. Transformation of verbal descriptions of diseases, injuries and procedures into numeric designations is presented using the Current Procedural Terminology (CPT) and the International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) coding books. Prerequisite: HED 105 or concurrent with HED 105. (SCC)

MSEC 124 - Medical Office Insurance Billing (5 cr)

This course introduces major, nationwide and local medical insurance programs. Students learn to simplify the process of filing claim forms and gain an understanding of medical insurance requirements for billing, confidentiality, coding, referrals and professional fees. Students also develop an "insurance information" notebook for future reference. Prerequisite: HED 104 and concurrent enrollment in MSEC 125. (SCC)

MSEC 125 - Medical Office Bookkeeping (5 cr)

This course introduces medical office billing procedures using medical management software. An interactive approach allows students to open new accounts, post typical business transactions, and open and close posting cycles. An overview of account aging, billing and collection procedures is included. Prerequisite: ACCT 151, BUS 103 and concurrent enrollment in MSEC 124. (SCC)

MSEC 131 - Fundamentals of Medical Word Processing (5 cr)

This course introduces the fundamentals of medical word processing including transcription of medical office correspondence and reports (medicolegal, history and physical, consultation, and discharge summaries). Students learn various mechanical formats used to prepare these reports. The application of medical terminology to develop familiarity with spoken terms is emphasized. Prerequisite: Typing speed of 50 wpm. (SCC)

MSEC 132 - Medical Transcription I (10 cr)

Students develop skills in transcription of medical dictation and word processing software using personal computers to transcribe selected medical correspondence and medical reports. A review of language skills including vocabulary, grammar and punctuation, capitalization, numbers, figures and abbreviations is presented. Transcription of reports (history and physical, operative, and discharge summaries) is emphasized. An academic study of related terminology also is included. Prerequisite: MSEC 131 with a 2.0 or better. (SCC)

MSEC 133 - Medical Transcription II (10 cr)

Students continue to develop the skills in the transcription of dictation utilizing proofreading and editing skills while meeting progressively demanding accuracy and productivity standards. Transcription of pathology, radiology, diagnostic testing and industrial medical reports is emphasized. An academic study of related terminology is included. Prerequisite: MSEC 132 with a 2.0 or better. (SCC)

MSEC 134 - Speech Recognition/Editing (5 cr)

This class will explore the difference between front-end and back-end speech recognition editing as well as productivity and quality issues. This will also include the role of SR technology in the medical record and the implications of SR technology on the future of the medical transcription industry. Prerequisite: MSEC 131. (SCC)

MSEC 150 - Medical Transcription Practicum (8 cr)

Students must complete a minimum of 264 hours of on-the job medical transcription training. Consultations, histories and physicals, operative reports, discharge summaries, and other medical reports are emphasized. Prerequisite: MSEC 133. (SCC)

MSEC 223 - Medical Office Coding II (5 cr)

This course continues with the concepts introduced in MSEC 123. A more comprehensive study of the ICD-9-CM and CPT coding systems is presented. Prerequisite: MSEC 123. (SCC)

MSEC 240 - Medical Office Transcription (5 cr)

Students learn to process, type and transcribe a variety of office reports and other dictation including chart notes, medical reference letters, medicology reports, consultation letters, interoffice correspondence, manuscripts and abstracts. Prerequisite: Typing speed of 40 wpm with 3 or fewer errors by exam. HED 105 or concurrent enrollment. (SCC)

MSEC 241 - Medical Office Transcription (5 cr)

This course continues with the applications introduced in MSEC 240 with an emphasis on transcription of special medical reports, referral letters and medical office dictation. Accuracy and speed in transcribing tapes are stressed. An academic study of related terminology is presented. Prerequisite: MSEC 240. (SCC)

MSEC 284 - Medical Internship Seminar (1 cr)

Students share office experiences, utilize problem-solving skills and participate in career-related activities. Prerequisite: Medical clerical careers students only and MSEC 121 or 133. If earning a medical secretary degree, this must be your final quarter. Concurrent enrollment in MSEC 287. (SCC)

MSEC 285 - Medical Office Reception Internship (2-3 cr)

Students are placed in Spokane area medical offices to observe and perform receptionist duties in the medical office environment. Prerequisite: Medical office specialist degree or currently enrolled in the final quarter of the medical office receptionist or medical office insurance clerk programs. Students must also have three "recommended-for-internship" SEA forms. (SCC)

MSEC 286 - Medical Insurance Billing Internship (2 cr)

Students observe and apply classroom skills in a Spokane area health care provider office environment for a minimum of 66 hours. Prerequisite: Medical office insurance clerk certificate students currently enrolled in their final quarter. Must have three "recommended-for-internship" SEA forms. (SCC)

MSEC 287 - Medical Specialist Internship (2 cr)

Students observe and apply classroom skills in a Spokane area health care provider office environment for a minimum of 66 hours. Prerequisite: Medical Office Specialist degree students. Must have three "recommended-for-internship" SEA forms. (SCC)

MSEC 289 - Chiropractic Internship (3 cr)

Students observe and apply classroom skills in a "real" health care provider office environment for a minimum of 99 hours. Prerequisite: MSEC 121, 124, 125 and concurrent enrollment in MSEC 284. (SCC)

MUSC 100 - Music Fundamentals (5 cr)

The course studies the basics of music, including notation, rhythm, melody, harmony, scales, keys and key signatures, and emphasizes these concepts through the piano keyboard. No prior knowledge of music is necessary. (SFCC)

MUSC& 105 - Music Appreciation (5 cr)

Listening and understanding of common musical forms, idioms and styles; and how music relates to us today. (SCC, SFCC)

MUSC 106 - History of Popular Music (5 cr)

The history of American popular music from 1900 to the present. The course examines pre-20th century influences and traces the development of jazz, blues, the swing era, rhythm and blues, rock and roll, country, the British Invasion, funk, electronic, and fusion. (SCC, SFCC)

MUSC 108 - Music and Cinema (5 cr)

This course examines the various functions of music in film and traces the historical development of film music. (SCC, SFCC)

MUSC 109 - World Music (5 cr)

This course explores several musical cultures throughout the world, including but not limited to Africa, the Americas, Asia, Near East, Europe and South Pacific. The course is designed to enhance student's appreciation for the diversity of music throughout the world as well as the people that perform it. Students gain an understanding of features in the music that distinguish one style from another and the cultural and social-historical factors that shape the development of music. Lectures, films, recordings and live presentations assist students in their understanding of course topics. Though a knowledge of music is helpful, a music background is not required for this course. (SCC, SFCC)

MUSC 110 - Instrumental Techniques (1 cr)

This course is designed for instrumentalists who want to improve their performing abilities. Students will learn how to read lead sheets, become familiar with basic scales and chords, as well as the etiquette of running a small ensemble. Students will also learn the basics of improvisation to prepare them to take the Improvisation I course at SFCC. (SFCC)

MUSC 111 - Improvisation I (1 cr)

Improvisation I is open to any student who plays a musical instrument or sings and wants to acquire the basic improvisational skills for standard jazz repertoire. The class is a requirement for music students who want to perform in jazz combo and/or seeking an AFA degree Music with an emphasis in Jazz studies. The course runs concurrent with Jazz combos. Prerequisite: AUDIO 116 or MUSC 100 or MUSC& 141 and concurrent enrollment in MUSC 134. (SFCC)

MUSC 112 - Improvisation II (1 cr)

Improvisation II is open to any student who plays a musical instrument or sings and wants to acquire intermediate improvisational skills for standard jazz repertoire. The class is a requirement for music students who want to perform in jazz combo and/or seeking an AFA degree in music with an emphasis in Jazz studies. The course runs concurrent with Jazz combos. Prerequisite: MUSC 111 or permission of instructor and concurrent enrollment in MUSC 134. (SFCC)

MUSC 114 - Contemporary Harmony (3 cr)

This course includes the study of harmony as used in contemporary popular music, jazz, commercial media and film, including chords, scales, harmonic progressions, the blues, chord scale relationships, improvisation theory, notation and dictation. Students develop aural skills through listening and analysis. Prerequisite: AUDIO 116 or MUSC& 141, and MUSC 166 and concurrent enrollment in MUSC 167 or private lessons course. (SFCC)

MUSC 115 - Symphony Orchestra (1-3 cr)

Students perform an extensive repertoire of quality orchestral music from the Baroque era to the present. Each course may be taken up to three times. (SFCC)

MUSC 124 - History of Jazz (5 cr)

A survey of jazz in which recent investigations in cultural anthropology and American history, as well as the traditional viewpoints of music history and theory, are reflected. (SFCC, SCC)

MUSC 127 - Chamber Singers (1-3 cr)

A select performing ensemble whose purpose is to study, practice and perform representative chamber music from the 16th through the 20th centuries. Each course may be taken up to three times. Prerequisite: Permission of instructor. (SFCC)

MUSC 128 - Vocal Jazz Ensemble (2 cr)

This auditioned ensemble sings both a cappella and with accompaniment (piano/bass/drums) in traditional jazz (swing, Latin, bebop, blues) and modern a cappella styles. The emphasis is on complex harmonies, stylistic rhythms, jazz band-like phrasing and vocal improvisation. Ideally, the group will perform as a recruiting and touring ensemble throughout the greater Spokane area. Prerequisite: Permission of instructor. (SFCC)

MUSC 134 - Small Ensemble (1 cr)

Small Ensemble offers students an opportunity to collaborate and perform, concentrating on a variety of contemporary musical styles. The ensemble performs quarterly. This course may be repeated for credit up to 3 times. (SFCC)

MUSC 135 - World Drumming (1 cr)

This course introduces students to the basic art of drumming as a gateway to explore the culture and music of Africa, Brazil, Cuba and the Middle East. No previous reading or drumming ability is required (although helpful) and instruments are provided. This course may be taken for credit up to three times. (SFCC)

MUSC 139 - Chorus Men (1-2 cr)

Elementary work in mixed chorus ensemble singing together with study of appropriate choral literature. Each course may be taken up to three times. (SFCC)

MUSC 140 - Chorus Women (1-2 cr)

Elementary work in mixed chorus ensemble singing together with study of appropriate choral literature. Each course may be taken up to three times. (SFCC)

MUSC& 141 - Music Theory I (5 cr)

Students develop skills in writing and understanding correct musical notation, major and minor scales, and modes. Students write and apply intervals and triads to simple melodic and harmonic exercises. An emphasis is placed on the structural elements of music. (SFCC)

MUSC& 142 - Music Theory II (5 cr)

Students continue to study scales and modes and their application to melodic and harmonic composition. Students employ the use of triads and seventh chords, including all inversions, in four-part harmonic progressions, and continue to develop aural recognition of scales, intervals and triads with an emphasis on melodic dictation, rhythm, and ear training. Prerequisite: MUSC& 141. (SFCC)

MUSC& 143 - Music Theory III (5 cr)

This course focuses on modulation, secondary dominants and leading tone chords. Students are introduced to chromatic harmony, and analyze and write chorale-type compositions with an emphasis on the soprano/bass framework. Chordal analysis, including cadences and non-chordal tones, is emphasized. Aural recognition of scales, intervals and chords, with exercises in melodic dictation, rhythm, and ear training also are included. Prerequisite: MUSC& 142. (SFCC)

MUSC 144 - Commercial Music Groups (1 cr)

Students study and perform current popular music styles including rock, blues, fusion, top 40, country and standards. Each course may be taken up to three times. (SFCC)

MUSC 145 - Concert Band (1-3 cr)

Students perform an extensive repertoire of master works by composers from the Renaissance to the present. Each course may be taken up to three times. (SFCC)

MUSC 148 - Jazz Ensemble (1-3 cr)

Students study and perform modern trends and practices of jazz and related music areas. Individual music arrangements can be studied and created. Each course may be taken up to three times. (SFCC)

MUSC 151 - String Ensemble (1 cr)

This course is open to all students with reasonable proficiency on string instruments. Music performed surveys string repertoire for all combinations from masterworks of the baroque, classic, romantic and modern eras. Each course may be taken up to three times. (SFCC)

MUSC 152 - Vocal Ensemble (1 cr)

This course is open to all students with reasonable proficiency in vocal performance. Music performed includes solo and small ensemble vocal repertoire from the Baroque, Classical, Romantic and modern eras. This course may be taken up to three times. (SFCC)

MUSC 166 - Functional Piano I (2 cr)

Students develop piano performance techniques relevant and practical for today's professional musician. Synchronized with MUSC 114, this course includes the study of scales, chords, voicings, harmonic progressions, chord/scale relationships and basic comping, and improvisational techniques. This course is essential for all students of jazz and commercial music, regardless of their primary instrument. (SFCC)

MUSC 167 - Functional Piano II (2 cr)

Students develop piano performance techniques relevant and practical for today's professional musician. This course includes the study of scales, chords, voicings, harmonic progressions, chord/scale relationships and basic comping, and improvisational techniques. This course is essential for all students of jazz and commercial music, regardless of their primary instrument. Prerequisite: MUSC 166 or permission of instructor. (SFCC)

MUSC 170 - Singing I: The Voice (1 cr)

Students will find their voice and learn the basic techniques of posture, breathing and mouth shape/space to take their singing to the next level through lecture, participation, observation, and performance in a class setting. (SFCC)

MUSC 171 - Singing II: How It Works (1 cr)

Students learn the working physiology of the voice through lecture, participation, and observation and apply this knowledge to their vocal performance in a class setting. Prerequisite: MUSC 170. (SFCC)

MUSC 176 - Beginner Piano Class I (2 cr)

This course provides a basic hands-on introduction to keyboard musicianship and proficiency within a group setting. Keyboard application skills include an introduction to music reading, rhythms, improvisations, technique, solo repertoire and group ensembles. This course is intended for the complete beginner or for students with little experience in piano. (SFCC)

MUSC 177 - Beginner Piano Class II (2 cr)

Students continue to develop keyboard musicianship and proficiency within a group setting. Keyboard application skills include an introduction to chord progressions, harmonization, transposition, and further development of sight-reading, two-handed rhythms, technique, solo repertoire and group ensembles. Prerequisite: MUSC 176 or permission of instructor. (SFCC)

MUSC 178 - Beginner Piano Class III (2 cr)

Students continue to develop keyboard musicianship and proficiency within a group setting. Keyboard application skills include an introduction to secondary chords, varied accompaniment patterns, and further development of sight-reading, two-handed rhythms, technique, solo repertoire and group ensembles. Prerequisite: MUSC 177 or permission of instructor. (SFCC)

MUSC 182 - Guitar Class I (1 cr)

Students learn the fundamentals of note reading, basic theory and technical skills for both hands using a fingerstyle approach. Students are required to furnish their own instrument. (SFCC)

MUSC 183 - Guitar Ensemble (1 cr)

This course is open to all students with reasonable proficiency on guitar. Students will play music from the Renaissance through the 21st Century in ensembles from 2 - 6 people. This course may be taken up to three times for credit. Prerequisite: MUSC 100 or MUSC& 141 or permission of instructor. (SFCC)

MUSC 210 - Improvisation III (1 cr)

Improvisation II is open to any student who plays a musical instrument or sings and wants to acquire advanced improvisational skills for standard jazz repetoire. The class is a requirement for music students who want to perform in jazz combo and/or seeking an AFA degree in Music with an emphasis in Jazz studies. The course runs concurrent with Jazz combos. Prerequisite: MUSC 112 or instructor permission and concurrent enrollment in MUSC 234. (SFCC)

MUSC 214 - Contemporary Harmony II/Songwriting (5 cr)

This is a study of major pop/rock, folk/country, and adult contemporary musical styles and the writers, producers, and artists who shape the music. Learn about many musical styles while striving to define your own. Develop instrumental and lyric songwriting techniques. Prerequisite: MUSC 114, 167 and concurrent enrollment in AUDIO 217, 218 and 213 or 255. (SFCC)

MUSC 215 - Symphony Orchestra (1-3 cr)

Students perform an extensive repertoire of quality orchestral music from the Baroque era to the present. Each course may be taken up to three times. Prerequisite: MUSC 115. (SFCC)

MUSC 227 - Chamber Singers (1-3 cr)

A select performing ensemble whose purpose is to study, practice and perform representative chamber music from the 16th through the 20th centuries. Each course may be taken up to three times. Prerequisite: Permission of instructor. (SFCC)

MUSC 234 - Jazz Combo (1 cr)

Jazz combos offer students an opportunity to play jazz in a small group format, concentrating on improvisation in many different styles. The combos perform regularly, including tours, jazz festivals and professional engagements. Each course may be taken up to three times. Prerequisite: MUSC 134 or permission of instructor. (SFCC)

MUSC 239 - Chorus Men (1-2 cr)

Elementary work in mixed chorus ensemble singing together with study of appropriate choral literature. Each course may be taken up to three times. (SFCC)

MUSC 240 - Chorus Women (1-2 cr)

Elementary work in mixed chorus ensemble singing together with study of appropriate choral literature. Each course may be taken up to three times. (SFCC)

MUSC& 241 - Music Theory IV (5 cr)

This course focuses on practical writing and analytic experience in diatonic and chromatic harmony used during the 18th and 19th centuries. Students study musical forms, basics for arranging, orchestrating and composing, ear training and sight singing in solfege. Prerequisite: MUSC& 143 or permission of instructor. (SFCC)

MUSC& 242 - Music Theory V (5 cr)

Students continue to study music theory with further discussion on secondary functions, modulatory techniques, chromaticism, altered and borrowed chords, mode mixtures, augmented sixth chords and modulations, ear training and sight singing. Students compose the exposition of a piano sonata. Prerequisite: MUSC& 241. (SFCC)

MUSC& 243 - Music Theory VI (5 cr)

Students continue to study the harmonic vocabulary and elements in late romanticism and the 20th century, impressionism, scales, parallelism, pandiatonicism, set theory, 12-tone technique, serialism, electronic music, advanced sight singing and ear training. Prerequisite: MUSC& 242. (SFCC)

MUSC 244 - Commercial Music Groups (1 cr)

Students study and perform current popular music styles including rock, blues, fusion, top 40, country and standards. Each course may be taken up to three times. Prerequisite: MUSC 144 or permission of instructor. (SFCC)

MUSC 245 - Concert Band (1-3 cr)

Students perform an extensive repertoire of master works by composers from the Renaissance to the present. Each course may be taken up to three times. Prerequisite: MUSC 145. (SFCC)

MUSC 248 - Jazz Ensemble (1-3 cr)

Students study and perform modern trends and practices of jazz and related music areas. Individual music arrangements can be studied and created. Each course may be taken up to three times. Prerequisite: MUSC 148. (SFCC)

MUSC 251 - String Ensemble (1 cr)

This course is open to all students with reasonable proficiency on string instruments. Music performed surveys string repertoire for all combinations from masterworks of the baroque, classic, romantic and modern eras. Each course may be taken up to three times. (SFCC)

MUSC 252 - Vocal Ensemble (1 cr)

This course is open to all students with reasonable proficiency in vocal performance. Music performed includes solo and small ensemble vocal repertoire from the Baroque, Classical, Romantic and modern eras. This course may be taken up to three times. (SFCC)

MUSC 276 - Advanced Piano Class I (2 cr)

Students learn advanced keyboard musicianship and proficiency within a group setting. Keyboard application skills include an introduction to basic conducting and further development of keyboard technique, harmonization, transposition, improvisation, sight-reading, solo repertoire, and group ensembles. Prerequisite: MUSC 178 or permission of instructor. (SFCC)

MUSC 277 - Advanced Piano Class II (2 cr)

Students continue to develop advanced keyboard musicianship and proficiency within a group setting. Keyboard application skills include an introduction to varied chord progressions using secondary chords and inversions. The course includes group discussions on performance anxiety and related issues, and further development of keyboard technique, harmonization, transposition, improvisation, sight-reading, solo repertoire and group ensembles. Prerequisite: MUSC 276. (SFCC)

MUSC 278 - Advanced Piano Class III (2 cr)

Students continue to develop advanced keyboard musicianship and proficiency within a group setting. Keyboard application skills include an introduction to chorale score reading, accompaniment and further development of keyboard technique, harmonization, transposition, improvisation, sight-reading, solo repertoire and group ensembles. Prerequisite: MUSC 277. (SFCC)

MUSIC PRIVATE LESSONS

MUSPL 101 - Preparatory Private Lessons 1 - Foundation (1 cr)

Formerly MUSC 101. This course helps prepare students for college level private music lessons, focusing on foundational skills. Students must be currently enrolled in at least one performing ensemble. Prerequisite: Permission of instructor. (SFCC)

MUSPL 102 - Preparatory Private Lessons 2 - Intermediate/ Advancing (1 cr)

Formerly MUSC 102. This course helps prepare students for college level private music lessons. Students must be currently enrolled in at least one performing ensemble. Prerequisite: Permission of instructor. (SFCC)

MUSPL 103 - Preparatory Private Lessons 3 - Advanced (1 cr)

Formerly MUSC 103. This course helps prepare students for college level private music lessons, focusing on students possessing and refining advanced skills and techniques. Students must be currently enrolled in at least one performing ensemble. Prerequisite: Permission of instructor. (SFCC)

MUSPL 104 - Private Lessons (1 cr)

Formerly MUSC 180. Private instrumental or voice lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility, and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 105 - Private Bass Lessons (1 cr)

Formerly MUSC 180. Private instrumental lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility, and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 106 - Private Bassoon Lessons (1 cr)

Formerly MUSC 180. Private instrumental lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility, and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 107 - Private Cello Lessons (1 cr)

Formerly MUSC 180. Private instrumental lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility, and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 108 - Private Clarinet Lessons (1 cr)

Formerly MUSC 180. Private instrumental lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility, and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 109 - Private Composition Lessons (1 cr)

Formerly MUSC 180. Private instrumental lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility, and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 110 - Private Flute Lessons (1 cr)

Formerly MUSC 180. Private instrumental lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility, and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 111 - Private French Horn Lessons (1 cr)

Formerly MUSC 180. Private instrumental lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility, and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 112 - Private Guitar Lessons (1 cr)

Formerly MUSC 180. Private instrumental lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility, and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 113 - Private Jazz Bass Lessons (1 cr)

Formerly MUSC 180. Private instrumental lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility, and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 114 - Private Jazz Guitar Lessons (1 cr)

Formerly MUSC 180. Private instrumental lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility, and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 115 - Private Jazz Piano Lessons (1 cr)

Formerly MUSC 180. Private instrumental lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility, and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 116 - Private Jazz Voice Lessons (1 cr)

Formerly MUSC 180. Private voice lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility, and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 117 - Private Oboe Lessons (1 cr)

Formerly MUSC 180. Private instrumental lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility, and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 118 - Private Percussion Lessons (1 cr)

Formerly MUSC 180. Private instrumental lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility, and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 119 - Private Piano Lessons (1 cr)

Formerly MUSC 180. Private instrumental lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility, and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 120 - Private Saxophone Lessons (1 cr)

Formerly MUSC 180. Private instrumental lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility, and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 121 - Private Trombone Lessons (1 cr)

Formerly MUSC 180. Private instrumental lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility, and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 122 - Private Trumpet Lessons (1 cr)

Formerly MUSC 180. Private instrumental lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility, and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 123 - Private Tuba Lessons (1 cr)

Formerly MUSC 180. Private instrumental lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility, and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 124 - Private Viola Lessons (1 cr)

Formerly MUSC 180. Private instrumental lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility, and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 125 - Private Violin Lessons (1 cr)

Formerly MUSC 180. Private instrumental lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility, and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 126 - Private Voice Lessons (1 cr)

Formerly MUSC 180. Private voice lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility, and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 204 - Private Lessons (1 cr)

Private instrumental or voice lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 205 - Private Bass Lessons (1 cr)

Private instrumental lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 206 - Private Bassoon Lessons (1 cr)

Private instrumental lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 207 - Private Cello Lessons (1 cr)

Private instrumental lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 208 - Private Clarinet Lessons (1 cr)

Private instrumental lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 209 - Private Composition Lessons (1 cr)

Private lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 210 - Private Flute Lessons (1 cr)

Private instrumental lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 211 - Private French Horn Lessons (1 cr)

Private instrumental lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 212 - Private Guitar Lessons (1 cr)

Private instrumental lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 213 - Private Jazz Bass Lessons (1 cr)

Private instrumental lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 214 - Private Jazz Guitar Lessons (1 cr)

Private instrumental lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 215 - Private Jazz Piano Lessons (1 cr)

Private instrumental lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 216 - Private Jazz Voice Lessons (1 cr)

Private voice lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 217 - Private Oboe Lessons (1 cr)

Private instrumental lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 218 - Private Percussion Lessons (1 cr)

Private instrumental lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 219 - Private Piano Lessons (1 cr)

Private instrumental lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 220 - Private Saxophone Lessons (1 cr)

Private instrumental lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 221 - Private Trombone Lessons (1 cr)

Private instrumental lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 222 - Private Trumpet Lessons (1 cr)

Private instrumental lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 223 - Private Tuba Lessons (1 cr)

Private instrumental lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 224 - Private Viola Lessons (1 cr)

Private instrumental lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 225 - Private Violin Lessons (1 cr)

Private instrumental lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 226 - Private Voice Lessons (1 cr)

Private voice lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

MUSPL 260 - Advanced Private Lessons (2 cr)

Formerly MUSC 190. This course is available only to music majors planning to pursue a performance degree at a four-year school of music. Students receive extended one-on-one instruction that focuses on the repertoire needed for an audition. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. This course may be taken for credit up to three times. Prerequisite: Permission of the instructor. (SFCC)

MUSPL 261 - Advanced Private Piano Lessons (2 cr)

Formerly MUSC 190. This course is available only to music majors planning to pursue a performance degree at a four-year school of music. Students receive extended one-on-one instruction that focuses on the repertoire needed for an audition. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. This course may be taken for credit up to three times. Prerequisite: Permission of the instructor. (SFCC)

MUSPL 262 - Advanced Private Guitar Lessons (2 cr)

Formerly MUSC 190. This course is available only to music majors planning to pursue a performance degree at a four-year school of music. Students receive extended one-on-one instruction that focuses on the repertoire needed for an audition. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. This course may be taken for credit up to three times. Prerequisite: Permission of the instructor. (SFCC)

MUSPL 263 - Advanced Private Voice Lessons (2 cr)

Formerly MUSC 190. This course is available only to music majors planning to pursue a performance degree at a four-year school of music. Students receive extended one-on-one instruction that focuses on the repertoire needed for an audition. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. This course may be taken for credit up to three times. Prerequisite: Permission of the instructor. (SFCC)

MUSPL 264 - Advanced Private Violin Lessons (2 cr)

Formerly MUSC 190. This course is available only to music majors planning to pursue a performance degree at a four-year school of music. Students receive extended one-on-one instruction that focuses on the repertoire needed for an audition. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. This course may be taken for credit up to three times. Prerequisite: Permission of the instructor. (SFCC)

MUSPL 265 - Advanced Private Viola Lessons (1 cr)

Private instrumental lessons prepare students of music for transfer to a university, college or conservatory. Students develop technical agility and learn and master literature they will be expected to perform as part of transfer auditions. Private lessons are reserved for students enrolled simultaneously in music theory, class piano and at least one performing ensemble. Course may be taken up to six times. Prerequisite: Permission of instructor. (SFCC)

NATURAL RESOURCE MANAGEMENT

NATRS 112 - Natural Resources Mathematical Applications (5 cr)

Students learn basic arithmetic and algebra skills necessary for application in the fields of natural and water resources. (SCC)

NATRS 120 - Basic Computer Applications in Natural Resources (2 cr)

This is a beginning course in the use of computers in natural resource management. Use of specific software in a setting similar to on-the-job computer use in natural resource management such as word processing, presentation and the Internet is emphasized. (SCC)

NATRS 122 - Natural Resources Trigonometric Applications (5 cr)

Students learn the fundamentals of graphing, statistics, geometry and trigonometry with emphasis on practical applications to the fields of natural and water resources. Prerequisite: NATRS 112 with a grade of 1.7 or higher or equivalent. (SCC)

NATRS 130 - Chainsaw Operation, Maintenance and Safety (3 cr)

Students learn the proper operation, care, maintenance and safety in the use of chainsaws. Practical applications and demonstrations are emphasized. (SCC)

NATRS 131 - Field Projects in Natural Resources (3 cr)

This course provides practical experience that allows students to gain additional knowledge in a special topic of interest in natural resources management. Guidance from the natural resources instructors is provided to help students maximize their projects. Prerequisite: Permission of instructor; must be a natural resources major. (SCC)

NATRS 133 - Field Projects in Natural Resources (3 cr)

This course provides practical experience that allows students to gain additional knowledge in a special topic of interest in natural resources management. Guidance from the natural resources instructors is provided to help students maximize their projects. Prerequisite: Permission of instructor; must be a natural resources major. (SCC)

NATRS 201 - Forest Protection (5 cr)

Students learn basic principles of fire control and behavior, and the control and identification of insect and disease damage to forest trees. (SCC)

NATRS 202 - Dendrology (5 cr)

This class combines lecture, lab, field trips and a variety of laboratory plant identification exercises. The majority of the class is held at Mt. Spokane State Park and the Newman Lake area describing and identifying forest plants. (SCC)

NATRS 203 - Forest Harvesting and Products (5 cr)

This course provides an overview of the wood products industry from the harvesting of raw material through its processing into a product. Students realize the connection between product specifications and their impact on harvesting equipment and techniques. Safety procedures when working around harvesting and processing equipment are practiced and stressed. Prerequisite: NATRS 204, 205 or permission of instructor. (SCC)

NATRS 204 - Maps and Aerial Photo Interpretation (5 cr)

Students learn the basic principles of interpretation and field use of aerial photographs relating to natural resources. Field use of planimetric and topographic maps is emphasized. Prerequisite: NATRS 112 or permission of instructor. (SCC)

NATRS 205 - Surveying (5 cr)

Students learn elementary surveying, including fundamentals of forest surveying, and use and care of equipment. Emphasis is on use of staff compass, Abney level, clinometer, tapes, transit and stadia rod. Prerequisite: NATRS 122 or permission of instructor. (SCC)

NATRS 209 - Silviculture (5 cr)

Students learn basic principles of timber stand improvement, cutting practices and forest regeneration methods. Prerequisite: ENVS 110, NATRS 112, 209, 215 or permission of instructor. (SCC)

NATRS 215 - Forest Measurements (5 cr)

Students learn basic principles of forest and natural resources sampling and measurement. Field work emphasizes correct use of forest measurements tools and instruments. Class work emphasizes calculations using measurements taken in the field. Prerequisite: NATRS 112 or permission of instructor. (SCC)

NATRS 216 - Forest Inventory (5 cr)

This course furthers the principles of forest measurements with emphasis on cruising, forest inventory, volume calculations and forest-type mapping. Prerequisite: NATRS 112 or permission of instructor. (SCC)

NATRS 217 - Freshwater Fisheries Biology (5 cr)

Students learn to identify fish and study biology, ecology, habitat requirements and management, hatchery propagation, stream enhancement and restoration procedures, and selected aquatic insect and riparian plant identification. (SCC)

NATRS 221 - Applications in Geographic Information Systems (4 cr)

This course builds on the basic cartographic skills developed in ENVS 220. Students work independently to problem solve within the framework of ESRI's ArcGIS suite of software. The course focuses on the professional application of geoprocessing tools to the analysis of raster and vector data and the integration of spatial data collected via GPS. Collaboration within a database, the effective management of metadata, and sharing data are emphasized. Prerequisite: ENVS 220 or permission of instructor. (SCC)

NATRS 225 - Natural Resources Occupational Experience (1-12 cr)

This practical course assists students in pursuing careers in natural resources. Students learn to complete specific employment applications, resumes and letters of inquiry, and employment portfolios. Students also contact employers for interviews and follow-up. Students are required to evaluate their work experience and submit comprehensive written and oral reports. Prerequisite: Natural resources students only or permission of instructor and concurrent enrollment in the natural resources program. (SCC)

NATRS 230 - Global Positioning Systems (3 cr)

This course teaches students to use global positioning systems to collect, prepare, and map static and kinematic data. Using GPS to find points in the field is practiced as well. Prerequisite: NATRS 120, 122, 204 or permission of instructor. (SCC)

NATRS 231 - Field Projects in Natural Resources (3 cr)

This course provides practical experience that allows students to gain additional knowledge in a special topic of interest in natural resources management. Guidance from the natural resources instructors is provided to help students maximize their projects. Prerequisite: Permission of instructor; must be a natural resources major. (SCC)

NATRS 232 - Field Projects in Natural Resources (3 cr)

This course provides practical experience that allows students to gain additional knowledge in a special topic of interest in natural resources management. Guidance from the natural resources instructors is provided to help students maximize their projects. Prerequisite: Permission of instructor; must be a natural resources major. (SCC)

NATRS 233 - Field Projects in Natural Resources (3 cr)

This course provides practical experience that allows students to gain additional knowledge in a special topic of interest in natural resources management. Guidance from the natural resources instructors is provided to help students maximize their projects. Prerequisite: Permission of instructor; must be a natural resources major. (SCC)

NURSING PROGRAM (R.N., L.P.N.)

NURS 101 - Foundational Principles in Nursing (3 cr)

This course introduces the foundation of nursing principles'. Students will be introduced to the nursing concepts of critical thinking, safety, time management and communication as they relate to patient assessment and patient care. This course is a concept based course specifically focusing on nursing process, caring, assessment and accountability. Prerequisite: Acceptance into the nursing program. (SCC)

NURS 102 - Application of Foundational Principles in Nursing (5 cr)

This course applies the knowledge from NURS 101 to the clinical practice. Students will apply the nursing concepts of critical thinking safety, time management and communication as they relate to patient assessment and patient care. This course is a concept based course specifically applying the nursing process, caring, assessment and accountability to patient care settings. This course will include laboratory and clinical application of nursing concepts. Prerequisite: Acceptance into the nursing program. (SCC)

NURS 104 - Nursing Care of Patients Across the Lifespan (3 cr)

This course builds from the knowledge from NURS 101, 102, and NUTRI 251. Students will continue to associate the nursing concepts of critical thinking, safety, time management and communication as they relate to patient care across the lifespan. This course focuses on the care of the patient from pediatrics to geriatrics. This course is a concept based course specifically identifying and discussing the concepts of health, wellness, and illness; teaching and learning; growth and development; mobility; comfort; grief and loss; sleep and rest; cellular regulation; metabolism; infection; and oxygenation. Prerequisite: Completion of the previous quarter. (SCC)

NURS 105 - Application of Nursing Care of Patients Across the Lifespan (5 cr)

This course builds from the knowledge from NURS 101,102, and NUTRI 251. Students will apply the nursing concepts of critical thinking, safety, time management and communication as they relate to patient care across the lifespan. This course focuses on the well patient from pediatrics to geriatrics. This course is a concept based course specifically applying the concepts health, wellness, and illness; teaching and learning; growth and development; mobility; comfort; grief and loss; sleep and rest; cellular regulation; metabolism; infection; and oxygenation in the clinical setting as they related to patient care across the lifespan. This course will include laboratory and clinical application of nursing concepts and pediatric outpatient clinical experiences. Prerequisite: Completion of the previous quarter. (SCC)

NURS 106 - PSYC 106/Psychosocial Issues in Healthcare I (2 cr)

In this course, students will begin to examine the determinants of health and illness to include social, psychosocial, environmental, spiritual and cultural dimensions across the lifespan and within the context of health care. Prerequisite: Completion of the previous quarter. (SCC)

NURS 108 - Nursing Assistant Certified (6 cr)

This course prepares the student to provide direct patient care in hospitals, nursing homes, convalescent centers and home health care settings. The Nursing Assistant Certified has direct contact with the patients and residents in these settings in the process of providing care for their basic daily needs. It teaches about the care of patients in a variety of health care settings. Students learn to recognize the patient's physical, social and emotional needs and to care for these patients and meet their needs in a caring manner. Grade option: Pass/Fail. (SCC)

NURS 110 - Pharmacology in Nursing Practice (2 cr)

This course introduces the students to the foundational principles of pharmacotherapy. The course includes pharmacokinetics, pharmacodynamics, pharmacotherapeutics, and safe administration. The concepts of safety, communication, critical thinking and time management are introduced as they apply to medication administration. Prerequisite: Completion of the previous quarter. (SCC)

NURS 111 - Nursing Care of the Acute Patient (4 cr)

This course builds from the knowledge from NURS 101, 102, 104, and 105. Students will continue to interpret and discuss the nursing concepts of critical thinking, safety, time management and communication as they relate to patients with acute health problems. This course is a concept based course specifically exploring the concepts of clinical decision making, collaboration, evidenced based practice, fluid & electrolytes, oxygenation, perfusion, elimination, cognition, metabolism, nursing management, and acid base balance. Prerequisite: Completion of the previous quarter. (SCC)

NURS 112 - Application of Nursing Care of the Acute Patient (5 cr)

This course builds from the knowledge from NURS 101, 102, 104, 105. Students will continue to apply the nursing concepts of critical thinking, safety, time management and communication as they relate to patients with acute health problems. This course is a concept based course specifically applying the concepts of clinical decision making, collaboration, evidenced based practice, fluid & electrolytes, oxygenation, perfusion, and acid based balance in the clinical setting. This course will include laboratory and clinical application and demonstration of nursing concepts. Prerequisite: Completion of the previous quarter. (SCC)

NURS 113 - PSYC 113/Psychosocial Issues in Healthcare II (3 cr)

This course is a continuation of NURS 106, where students will continue to examine the determinants of health and illness including social, psychological, environmental, spiritual and cultural dimensions across the lifespan and within the context of healthcare. Prerequisite: Completion of the previous quarter. (SCC)

NURS 200 - Care of the Developing Family (3 cr)

This course builds from the knowledge from year one for the nursing program. Students will continue to build the nursing concepts of critical thinking, safety, time management and communication as they relate to childbearing women and their families. This course is a concept based course specifically focusing the concepts of assessment and caring as they apply to maternal and perinatal health. Prerequisite: Completion of the previous quarter. (SCC)

NURS 201 - Application of Care of the Developing Family (2 cr)

This course builds from the knowledge from year one for the nursing program. Students will continue to build their knowledge and understanding of the nursing concepts of critical thinking, safety, time management, and communication as they relate to childbearing women and their families. This course is a concept based course specifically applying the concepts of assessment and caring to patient in a maternity/newborn acute care setting, by demonstrating assessment and care of newborn and postpartum maternal patients in the hospital environment. Prerequisite: Completion of the previous quarter. (SCC)

NURS 202 - PHIL 202/Ethics and Policy in Healthcare I (3 cr)

This course introduces ethical principles that shape the practice of healthcare professionals and are used to develop healthcare policies. This course is a concept based course introducing ethics, legal issues and health policy to nursing practice. Prerequisite: Completion of the previous quarter. (SCC)

NURS 203 - Care of the Mental Health Patient (3 cr)

This course builds from the knowledge from year one for the nursing program. Students will continue to apply the nursing concepts of critical thinking, safety, time management and communication as they relate to the mental health of patients across the lifespan. This course is a concept based course specifically interpreting and examining the concepts and how the concepts related to the assessment and care of, and therapeutic communication with, the patient in a variety of mental health settings. This includes demonstration of mental health status examination. Prerequisite: Completion of the previous quarter. (SCC)

NURS 204 - Application of Care of the Mental Health Patient (2 cr)

This course builds from the knowledge from year one for the nursing program. Students will continue to apply the nursing concepts of critical thinking, safety, time management and communication as they relate to the mental health of patients across the lifespan. This course is a concept based course specifically applying the concepts of therapeutic communication, assessment and caring to patient in a variety of mental health clinical settings. Prerequisite: Completion of the previous quarter. (SCC)

NURS 205 - Nursing Care of the Critically III Patient (5 cr)

This course builds from the knowledge from year one for the nursing program. Students will continue to apply the nursing concepts of critical thinking, safety, time management and communication as they relate to the critically ill patient. This course integrates and builds on the concepts of oxygenation, perfusion, acid-base balance, immunity, infection and tissue integrity as it relates to the care of critically ill patients in the acute care setting. Prerequisite: Completion of the previous quarter. (SCC)

NURS 206 - Application of Nursing Care of the Critically III Patient (6 cr)

This course builds from the knowledge from year one for the nursing program. Students will continue to apply the nursing concepts of critical thinking, safety, time management and communication as they relate to the critically ill patient. This course advances the application of the concepts of oxygenation, perfusion, acid-base balance, immunity, infection and tissue integrity as it applies to critically ill patients in the acute care setting. This course will include laboratory and clinical application of stated nursing concepts. Prerequisite: Completion of the previous quarter. (SCC)

NURS 207 - PHIL 207/Ethics and Policy in Healthcare II (2 cr)

This course builds from the content introduced in NURS 202. Students apply the ethical principles that are used to develop and implement healthcare policies in a variety of healthcare settings. Prerequisite: Completion of the previous quarter. (SCC)

NURS 208 - Capstone Experience in Nursing (6 cr)

This course is the culmination of all previous nursing quarters into a capstone experience. Students will continue to apply the nursing concepts of critical thinking, safety, time management and communication as they relate to patients in multiple care settings. This course applies the concepts of accountability, collaboration, comfort and technical skills in a capstone experience. Prerequisite: Completion of the previous quarter. (SCC)

NURS 209 - Leadership Principles in Nursing Care (4 cr)

This course prepares the student for transition to professional practice. Students evaluate key leadership principles and strategies to prepare for licensure. Students integrate and evaluate concepts of accountability and collaboration as they transition to a Registered Nurse. Prerequisite: Completion of the previous quarter. (SCC)

NURS 210 - Simulation in Nursing Practices (2 cr)

This course synthesizes nursing concepts, introduced across the nursing program, in a simulated clinical environment. Students collaborate with interdisciplinary partners to prepare for practice as a Registered Nurse. Prerequisite: Completion of the previous quarter. (SCC)

NURS 299 - Independent Study in Nursing (1-13 cr)

This course is designed for students wishing to complete specialized studies in the field of nursing. Objectives are developed jointly by the student and instructor. Prerequisite: Current enrollment in the Nursing program or permission of instructor. (SCC)

NUTRITION

NUTRI 150 - General Nutrition (3 cr)

Fundamental concepts, theories and terminology of nutrition, including all classes of essential nutrients with respect to properties, functions, deficiencies, toxicities, dietary requirements and major food sources are covered in this class. Current controversial applied nutrition topics are included in many subject areas. (SCC, SFCC)

NUTRI 251 - Nutrition in Healthcare (5 cr)

The science that studies food and its relation to human health and performance. The various nutrients and their functions in human metabolism are examined. Essential nutrients are studied with respect to properties, functions, deficiencies, toxicities, dietary requirements and major food sources. Prerequisite: BIOL& 242 or permission of instructor. (SCC, SFCC)

OCEANOGRAPHY

OCEA& 101 - Intro to Oceanography (5 cr)

This course introduces students to the principles of Marine Science; the physical and chemical properties of Seawater; the fundamentals of Biology; the Organisms of the Sea; the structure and function of Marine Ecosystem; and the relationship of Humans to the Sea. (SCC)

ORTHOTIC-PROSTHETIC TECHNICIAN

OR-PR 111 - Prosthetic Tools and Materials (4 cr)

Become familiar with prosthetic bench tools and equipment, acquire basic proven tool operation skills, classify the general areas of the lab and use of special prosthetic equipment in the lab. As a prosthetic technician students work with many materials such as metals, leather, wood, plastic, etc. This course introduces students to the materials commonly used in prosthetics. (SFCC)

OR-PR 112 - Related Human Anatomy (3 cr)

In order for the orthotics and prosthetics technician to correctly fabricate orthoses and prostheses, it is necessary for him/her to have a basic knowledge of muscles and bones of the human body. To properly fabricate below-the-knee prosthetic devices in accordance with the measurement chart, a basic understanding of the anatomy of the below-the-knee residual limb is essential. Prerequisite: OR-PR 111. (SFCC)

OR-PR 114 - Below Knee Prosthetics (10 cr)

The technician learns to identify lower limb prosthetic components, interpret measurement charts, prepare PVA sleeves, lay up PTB socket, fabricate PTB soft insert, laminate PTB socket utilizing vacuum, prepare SACH feet, statically align and assemble unfinished PTB, fabricate the PTB knee cuff, fabricate the PTB waist belt with suspension attachment, duplicate alignment, shape and hollow out prosthesis, lay up and laminate the PTB prosthesis, and finish and assemble the below-knee prosthesis. Prerequisite: OR-PR 111, 112. (SFCC)

OR-PR 122 - Related Anatomy of the Above Knee Amputation (3 cr)

A basic understanding of anatomy of the above-the-knee residual limb. Prerequisite: OR-PR 111, 112, 114. (SFCC)

OR-PR 124 - Advanced Below Knee Prosthetics (4 cr) Identify endoskeletal components, fabricate model, check socket, and liner for endoskeletal prosthesis, laminate endoskeletal socket, assemble, align and shape endoskeletal prosthesis. Prepare plaster model for locking liner prosthesis, prepare shuttle lock installation, fabricate check socket, assemble and align temporary prosthesis, transfer alignment, fabricate definitive socket, complete alignment transfer. Syme and partial foot prosthetics (discussion). Prerequisite: OR-PR 111, 112, 114, 122. (SFCC)

OR-PR 126 - Above-the-Knee Prosthetics (10 cr)

Interpret A-K information and measurement charts, make a plaster of Paris model for A-K socket. Prepare and lay up the A-K socket, laminate the socket, attach socket into extension block, statically align A-K prosthesis adjustable leg, make flexible leather belt, metal band, and attach hip joint, duplicate alignment of A-K prosthesis, and finish and assemble prosthesis. Prerequisite: OR-PR 111, 112, 114, 122, 124. (SFCC)

OR-PR 132 - Related Anatomy (Upper Extremity) (2 cr)

In order for the student to fabricate upper-extremity prosthetic devices in accordance with measurement charts, a basic understanding of the anatomy of upper extremity residual limbs is essential. Prerequisite: OR-PR 111, 112, 114, 122, 124, 126. (SFCC)

OR-PR 134 - Below Elbow Prosthetics (8 cr)

Students learn to identify and know the function of currently used upper limb prosthetic components, be able to interpret prosthetic measurement charts, fabricate a below elbow prosthesis as a long residual limb, and make a prosthesis for a short below elbow residual limb. Prerequisite: OR-PR 111, 112, 114, 122, 124, 126, 132. (SFCC)

OR-PR 136 - Above Elbow Prosthetics (7 cr)

Students learn to fabricate an AE prosthesis that is functional for the above-elbow amputee, and becomes knowledgeable in the check socket fabrication used on AE fittings. Prerequisite: OR-PR 111, 112, 114, 122, 124, 126, 132, 134. (SFCC)

OR-PR 138 - Clinical Prosthetics (6 cr)

The prosthetic student practices fabrication skill in an off-campus prosthetic laboratory. Prerequisite: OR-PR 111, 112, 114, 122, 124, 126, 132, 134, 136. (SFCC)

OR-PR 141 - Orthopedic Equipment and Materials (4 cr)

In order to become proficient at fabricating orthoses a student must be able to identify the function and proven choice of orthotic tools. Learning the best choice of equipment is critical to accurate fabrication, to be able to identify basic orthotic components and demonstrate mastery of basic orthotic metal working skills. Prerequisite: OR-PR 138. (SFCC)

OR-PR 142 - Spinal Anatomy Related to Orthotics (3 cr)

In order for the orthotics and prosthetics student to correctly fabricate orthoses and protheses, it is necessary for him/her to have basic knowledge of muscles and bones of the human body. To properly fabricate below-the-knee prosthetic devices in accordance with the measurement chart, a basic understanding of the anatomy of the below-the-knee residual limb is essential. Prerequisite: OR-PR 141 (SFCC)

OR-PR 144 - Spinal Orthotics (10 cr)

The student fabricates the metal framework of the lumbo-sacral orthosis, learn to cover a LS orthosis with leather, and fabricate a thoraco-lumbar orthosis and cover with leather. Prerequisite: OR-PR 141, 142. (SFCC)

OR-PR 152 - Foot and Ankle Skeletal Structure (3 cr)

In order to fabricate effective shoe modification and orthoses for control of the ankle and foot, a student will aquire a basic understanding of the foot-ankle skeletal structures. Prerequisite: OR-PR 141, 142, 144. (SFCC)

OR-PR 154 - Orthotic Shoe Fabrications (4 cr)

It is necessary for a student to develop skills in providing a base of support for the foot, to properly apply sole wedges as per prescription, fabricate shoe buildups of crepe or other material, and to accurately fabricate a foot orthoses (arch-support) per prescription. Prerequisite: OR-PR 141, 142, 144, 152. (SFCC)

OR-PR 156 - Ankle-Foot Orthosis (10 cr)

Interpret ankle-foot orthometry, shape stirrup to shoe and ankle, assemble an AFO without tibial torsion, with tibial torsion, fabricate leather work, and have a basic understanding of the varus and valgus corrective straps for the ankle. Prerequisite: OR-PR 141, 142, 144, 152, 154. (SFCC)

OR-PR 162 - Related Anatomy for the Above Knee Orthotics (1 cr)

A basic understanding of anatomy for the orthotics limbs. Prerequisite: OR-PR 141, 142, 144, 152, 154, 156. (SFCC)

OR-PR 164 - Above the Knee Orthotics (8 cr)

Interpret the knee-ankle-foot orthometry form and layout KAFO, construct metal work with and without tibial torsion of a KAFO, fabricate a KAFO with growth extensions, fabricate the leather work for the KAFO and fabricate knee control pads used in a KAFO. Prerequisite: OR-PR 141, 142, 144, 152, 154, 156, 162. (SFCC)

OR-PR 172 - Upper Extremity Anatomy Related to Orthotics (1 cr)

A basic understanding of upper extremity anatomy related to orthotics. Prerequisite: OR-PR 141, 142, 144, 152, 154, 156, 162, 164. (SFCC)

OR-PR 174 - Upper Extremity Orthotics (7 cr)

The student learns to identify wrist, hand and forearm anatomy; identify upper extremity components and interpret the orthometry forms; fabricate basic hand orthosis, wrist-hand orthosis (WHO), and learn vacuum forming of WHO. Prerequisite: OR-PR 141, 142, 144, 152, 154, 156, 162, 164, 172. (SFCC)

OR-PR 178 - Clinical Orthotics (6 cr)

In order to become proficient in fabricating orthotic devices, it is required that you practice your skills in an actual laboratory setting. Prerequisite: OR-PR 141, 142, 144, 152, 154, 156, 162, 164, 172, 174. (SFCC)

OR-PR 180 - Orthotic Fitter (2 cr)

An orthotic fitter is an allied health professional specifically educated and trained in the provision of certain orthoses. This includes fitting, adjusting or modifying devices that reflect the level of education and training received. (SFCC)

OR-PR 182 - Therapeutic Shoe Fitter (2 cr)

A therapeutic shoe fitter is an allied health professional specifically educated and trained to provide non-custom therapeutic shoes and non-custom multi-density inserts. This includes fitting, adjusting or modifying devices that reflect the level of education and training received. (SFCC)

OR-PR 184 - Mastectomy Fitter (1 cr)

A mastectomy fitter is an allied health professional specifically educated and trained in the provision of breast prostheses and post-mastectomy services. The education and training includes patient encounters, breast prostheses, fitter knowledge and skills, domains of practice, professional ethics, clinical documentation, and practice management. (SFCC)

OR-PR 186 - Introductory CAD CAM (1 cr)

An overview of how computer-aided design and computer-aided manufacturing can be applied as an alternate to the traditional tools and methodology of orthotic and prosthetic design and fabrication. (SFCC)

OCCUPATIONAL THERAPY ASSISTANT

OTA 101 - Foundation of Occupational Therapy (3 cr)

An overview of founding principles of occupational therapy practice. History of the profession, develop a framework of occupational therapy and standards of the profession. Course provides in-depth exploration of occupation, life roles through the life cycle, occupational therapy theory, analysis, and synthesis of occupations as performed in the various life stages. Prerequisite: Acceptance into the program. (SFCC)

OTA 102 - Occupational Therapy Terminology (1 cr)

Supervised self-study of terminology and abbreviations used to describe the anatomy, physiology, and pathology of the body systems used in relationship to the practice of physical and occupational therapy. Terms associated with diagnostics, surgery, laboratory tests, pharmacology, and patient care will be included. Prerequisite: Acceptance into the OTA program. (SFCC)

OTA 103 - Applied Anatomy (1 cr)

Course offering includes instruction in human anatomy with an emphasis on the musculoskeletal system, external palpation and identification of structures and relationship to function. Introduction to kinesiology. Prerequisite: Grade of 2.0 in previous OTA courses or permission of instructor. (SFCC)

OTA 104 - Survey of Pathophysiology (5 cr)

Basic overview of disease processes including general pathological responses and the physiology of healing and repair. Description of specific diseases and conditions and the medical and surgical forms of treatment as they relate to rehabilitation. Prerequisite: Grade of 2.0 or better in OTA courses or permission of instructor. (SFCC)

OTA 105 - Introduction to Neuroscience (4 cr)

Introduction to the structures and basic functions of the nervous system in relationship to occupational therapy treatment of patients with neurological lesions and disease processes. Prerequisite: Grade of 2.0 or better in previous OTA courses or permission of instructor. (SFCC)

OTA 106 - Regional Human Anatomy and Physiology (5 cr)

Study of human body structure and function with emphasis on muscles, and circulatory, respiratory, endocrine, and nervous systems. This course is specially designed to meet the needs of students becoming an OTA. Prerequisite: Grade of 2.0 or better in previous OTA courses or permission of instructor. (SFCC)

OTA 107 - Human Development Through the Lifespan (2 cr)

A survey of human development focusing on the physical, cognitive, psychological and emotional/social processes from infancy through older adulthood. Topics include the history and principles of developmental psychology, typical and atypical development and how to apply concepts of development in settings including hospitals, assisted living, childhood education, and out-patient settings. Prerequisite: 2.0 or better in previous OTA courses or permission of instructor. (SFCC)

OTA 110 - OTA Procedures (1 cr)

This course is designed to give occupational therapy assistant students basic knowledge in patient care, clinical procedures, managing infections, transfer, client handling techniques, assistive mobility equipment in preparation for the patient care and treatment environment. Prerequisite: Acceptance into the OTA program. (SFCC)

OTA 111 - Activity Analysis (3 cr)

Class provides opportunities to develop a foundation of knowledge and skills for the evaluation of occupational performance through activity analysis. Prerequisite: Grade of 2.0 or better in previous OTA courses or permission of instructor. (SFCC)

OTA 112 - Occupational Performance and Physical Disabilities (3 cr)

Course explores the role of the occupational therapy assistant in physical disabilities settings. Instruction in occupational performance, restoration techniques for daily living skills, use of assistive devices, and selected occupational performance activities. Prerequisite: Grade of 2.0 in previous OTA courses or permission of instructor. (SFCC)

OTA 113 - Occupational Therapy Principles (3 cr)

Course applies occupational therapy principles, frames of reference, and theories integrating Occupational Therapy Practice Framework with occupational performance. Student will gain knowledge and skills for the analysis of occupations and activity synthesis adapting, and grading of occupational therapy interventions in a variety of settings with persons who are experiencing dysfunction in occupational performance. Prerequisite: 2.0 or better in previous OTA courses or permission of instructor. (SFCC)

OTA 114 - Therapeutic Activities (3 cr)

This course provides occupational therapy assistant students basic knowledge of assessments used in therapeutic environments, introduction to emerging practice areas and activity modification for infant through older populations. Prerequisite: Acceptance into the OTA program. (SFCC)

OTA 120 - OTA Procedures Lab (2 cr)

This course provides occupational therapy assistant students basic knowledge and skills in patient care, clinical procedures, managing infections, transfer, client handling techniques, assistive mobility equipment, and basic physical modalities in preparation for the patient care and treatment environment. Prerequisite: Acceptance into the OTA program. (SFCC)

OTA 122 - Occupational Performance and Physical Disabilities Lab (2 cr)

Course explores through functional application, the role of the occupational therapy assistant in physical disabilities settings. Instruction in occupational performance, restoration techniques for daily living skills, use of assistive devices, and selected occupational performance activities. Prerequisite: Grade of 2.0 in previous OTA courses or permission of instructor. (SFCC)

OTA 123 - Applied Anatomy Lab (2 cr)

Course provides functional application and practice in human anatomy with an emphasis on the musculoskeletal system, external palpation, manual muscle testing, range of motion testing and identification of structures and relationship to function. Introduction to kinesiology. Prerequisite: Grade of 2.0 in previous OTA courses of permission of instructor. (SFCC)

OTA 124 - Therapeutic Activities Lab (2 cr)

This course provides occupational therapy assistant students basic knowledge and hands-on skills in assessment administration, emerging practice areas and activity modification/fabrication across the lifespan. Prerequisite: Acceptance into the OTA program. (SFCC)

OTA 127 - Human Development Through the Lifespan Lab (1 cr)

A human development lab with practical hands-on experiences focusing on the physical, cognitive, psychological and emotional processes from infancy through older adulthood. Topics include test administration, developmental treatment planning, and note writing in developmental terminology, typical and atypical development in settings to include hospitals, assisted living, and childhood education and out patients. Prerequisite: 2.0 or better in previous OTA courses or permission of instructor. (SFCC)

OTA 151 - Level I Clinical Fieldwork I (1 cr)

Introduction to the role of working with adults with physical disabilities within a community-based clinical setting. Prerequisite: Grade of 2.0 or better in previous OTA courses or permission of instructor and concurrent enrollment in OTA 161. (SFCC)

OTA 161 - Level I Clinical Fieldwork I Seminar (1 cr)

Seminar course taken in conjunction with OTA 151 Clinical Fieldwork I. Seminar course focuses on professional behaviors, clinical expectations, therapeutic relationships, professional relationships, documentation of clinical experience, health care policies and procedures and safety practices as taking place within community clinic setting. Prerequisite: Grade of 2.0 or better in previous OTA courses or permission of instructor and concurrent enrollment in OTA 151. (SFCC)

OTA 201 - Issues in Occupational Therapy and Health Care (2 cr)

Survey of medical, legal, and psychosocial and relational issues relating to the role of the Occupational Therapy Assistant and Physical Therapist Assistant in the delivery of health care services. Prerequisite: 2.0 or better in previous OTA courses or permission of instructor. (SFCC)

OTA 202 - Group Dynamics (2 cr)

Course provides instruction for effective interpersonal communication in clinical settings. Emphasis is placed on basic listening skills, providing meaningful feedback, and cultivating group skills. This course utilizes both peer feedback and engagement of therapeutic use of self. Prerequisite: 2.0 or higher in previous OTA courses or permission of instructor. (SFCC)

OTA 203 - Management for the Occupational Therapist (2 cr)

This course is designed to introduce the OTA student to the concepts of management, administrative positions, change theories and financial issues associated with health care. In addition, it will familiarize the OTA with the traits associated with leadership and mentoring within the profession of occupational therapy. Prerequisite: Grade of 2.0 or better in previous OTA courses. (SFCC)

OTA 210 - Occupational Performance and Mental Health (3 cr)

Course addresses acute and chronic psychosocial dysfunction conditions and occupational therapy's role in providing service. Topics include OTA's role in interventions, theory, evaluation, and treatment planning. Prerequisite: 2.0 or better in previous OTA courses or permission of instructor. (SFCC)

OTA 212 - Occupational Performance and Children (3 cr)

Course examines child development and occupational therapy practice for individuals from birth through age 21, with a focus on physical and developmental disabilities, neurological dysfunctions and sensory processing concerns. Includes theory, assessment, treatment plan and intervention for this population. Prerequisite: 2.0 or better in previous OTA courses or permission of instructor. (SFCC)

OTA 220 - Occupational Performance and Mental Health Lab (2 cr)

Course addresses acute and chronic psychosocial dysfunction conditions and occupational therapy's role in providing service. Topics include OTA's role in interventions, theory, evaluation, and treatment planning. Prerequisite: 2.0 or better in previous OTA courses or permission of instructor. (SFCC)

OTA 221 - Occupational Performance and Aging (3 cr)

Exploration of therapeutic approaches with aging population and individuals with chronic disabling conditions. Occupational Therapy Practice Framework as well as productive activities, daily living skills, social participation, medication management, use of orthotic devices and adaptive equipment, work, and leisure are explored. Prerequisite: 2.0 or better in previous OTA courses or permission of instructor. (SFCC)

OTA 231 - Occupational Performance and Aging Lab (2 cr)

Hands on exploration of therapeutic approaches with aging population and individuals with chronic disabling conditions. Occupational Therapy Practice Framework as well as productive activities, daily living skills, social participation, work, and leisure are explored. Prerequisite: 2.0 or better in previous OTA courses or permission of instructor. (SFCC)

OTA 232 - Group Dynamics Lab (1 cr)

Course is designed to develop effective interpersonal communication in clinical settings through lab instruction and practice. Emphasis is placed on basic listening skills, providing meaningful feedback, and cultivating group skills. This course utilizes both peer feedback and engagement of therapeutic use of self. Prerequisite: 2.0 or higher in previous OTA courses or permission of instructor. (SFCC)

OTA 242 - Occupational Performance and Children Lab (2 cr)

Course examines child development and occupational therapy practice for individuals from birth through 21, with a focus on physical and developmental disabilities, neurological dysfunctions and sensory processing concerns. Includes assessment, treatment plan and intervention, lab experiences related to treatment techniques and demonstration of knowledge of developmental stages in infants and children. Prerequisite: 2.0 or better in previous OTA courses or permission of instructor. (SFCC)

OTA 251 - Level I Clinical Fieldwork II (1 cr)

Course addresses mentoring, clinical reasoning skills, ethics and documentation for transition from student to practitioner. Prerequisite: Grade of 2.0 or better in OTA courses or permission of instructor. (SFCC)

OTA 252 - Level I Clinical Fieldwork III (1 cr)

Course addresses mentoring, clinical reasoning skills, ethics and documentation for transition from student to practitioner within a community-based clinical setting. Prerequisite: Grade of 2.0 or better in OTA courses or permission of instructor. (SFCC)

OTA 253 - Level II Clinical Fieldwork I (1-10 cr)

Eight weeks of fieldwork in contracted facility. Minimum of 40 hours a week of on-site skill practice. Repeatable up to 10 credits. Grading option: Pass/Fail. Prerequisite: 2.0 or better in previous OTA courses or permission of instructor and concurrent enrollment in OTA 263. (SFCC)

OTA 254 - Level II Clinical Fieldwork II (10 cr)

Eight weeks of fieldwork in second contracted facility gaining on site skill practice. Prerequisite: 2.0 or better in previous OTA courses or permission of instructor and concurrent enrollment in OTA 263. (SFCC)

OTA 261 - Level I Clinical Fieldwork II Seminar (1 cr)

Seminar course taken in conjunction with OTA 251 Level I Clinical Fieldwork II. Seminar course focuses on professional behaviors, clinical expectations, therapeutic relationships, professional relationships, documentation of clinical experiences, health care policies and procedures and safety practices taking place within community clinic setting. Prerequisite: 2.0 or better in previous OTA courses or permission of instructor and concurrent enrollment in OTA 251. (SFCC)

OTA 263 - Fieldwork II Seminar (1-4 cr)

Fieldwork Seminar includes weekly topics of presentation/lecture with student contribution to discussion groups, recommended reading and Q and A sessions with focus on relevant clinical application as related to current fieldwork placement. Repeatable up to four credits. Prerequisite: 2.0 or better in previous OTA courses or permission of instructor and concurrent enrollment in OTA 253, 254. (SFCC)

PALEONTOLOGY

PALEO 103 - Dinosaur Paleontology (5 cr)

Provides an overview of the history of dinosaur exploration and recovery with short biographies of the great dinosaur biologists and hunters. Provides a discussion of the differences between dinosaurs and other animals. Discusses current theories of dinosaur metabolism and life style. Provides audio-visual materials on well-known dinosaur collecting sites and museums. The CCS paleontological collection includes actual dinosaur bones and teeth, as well as invertebrate and plant fossils contemporary with the dinosaurs. These provide hands-on experiences. There are opportunities for preparation of molds and casts of fossil material. Discusses various extinction theories. Prerequisite: BIOL& 160 or permission of instructor. (SFCC)

PHYSICAL EDUCATION

PE 100 - Fitness for Life (1 cr)

This course is designed to acquaint students with proper methods and techniques for establishing an individualized personal wellness and fitness program. It is conducted in the campus Fitness Center and includes personalized inventory and appraisal of current fitness level and explores options available to improve cardiovascular endurance, weight control, strength and flexibility. (SCC, SFCC)

PE 101 - Beginning Volleyball (1 cr)

Fundamental skills, rules, etiquette and strategy; development of skills through drills and competitive play. (SCC, SFCC)

PE 105 - Beginning Badminton (1 cr)

Fundamental skills, rules of the game, court etiquette, techniques, and strategy of singles and doubles play. (SCC, SFCC)

PE 106 - Yoga Fitness (1 cr)

This course promotes individual fitness and total mind-body health. Strength and stretching movements, flexibility and breathing exercises, and relaxation techniques are presented. (SCC, SFCC)

PE 107 - Jogging (1 cr)

Course designed to improve the student's level of physical fitness and wellness, teach proper methods of running/jogging, encourage proper body weight and body fat levels, and establish a permanent habit of exercise. (SCC, SFCC)

PE 108 - Beginning Tennis (1 cr)

Basic skills and techniques needed for singles and doubles play. Court etiquette, rules, strategy, scoring and terminology. (SCC, SFCC)

PE 114 - Beginning Karate (1 cr)

Fundamental skills, philosophy, rules and strategy of karate. Emphasizes a combination of skill, power and discipline. (SCC, SFCC)

PE 115 - Beginning Soccer (1 cr)

Basic skills, strategy and team play involved in the game of soccer. (SCC, SFCC)

PE 116 - Beginning Basketball (1 cr)

Fundamentals of ball handling, shooting, passing, and techniques of offensive and defensive play. Competitive play situations provided. (SCC, SFCC)

PE 117 - Kickboxing (1 cr)

Students learn the basic skills, techniques and safety procedures of kickboxing. Sport specific activities to improve individual balance, strength, endurance and cardiovascular conditioning are emphasized. (SCC, SFCC)

PE 118 - Beginning Bowling (1 cr)

This course is designed to teach fundamental skills, rules, techniques, scoring and etiquette of bowling. (SFCC)

PE 120 - Beginning Softball (1 cr)

Fundamentals of team play, rules and game strategies. Emphasis placed on participation by all. (SCC, SFCC)

PE 122 - Beginning Skiing (1 cr)

Instruction at all levels of competency in the skills and techniques of skiing. Classes are held at Mt. Spokane. (SCC, SFCC)

PE 126 - Beginning Golf (1 cr)

Practice and development of fundamental skills, rules and etiquette of golf. (SCC, SFCC)

PE 127 - Beginning Jazz Dance (1 cr)

Course includes jazz dance oriented stretching and warm-ups. Class will learn jazz combinations, walks and steps incorporated in a variety of dance routines. (SFCC)

PE 130 - Pickleball (1 cr)

Fundamental skills, rules of the game, court etiquette, techniques, and strategy of singles and doubles play. (SCC, SFCC)

PE 135 - Gymnastics (1 cr)

Gymnastics basics covering beginning, intermediate and advanced levels in the areas of tumbling, flexibility, vaulting, bars and balance beam. (SCC)

PE 138 - Fundamentals of Resistance Training (2 cr)

Fundamentals of Resistance Training offers instruction and practice in proper techniques of the development of muscular strength, endurance, and flexibility. Emphasis is placed on reducing fat, increasing strength and performance. Also, special attention is given to exercise program design, safety procedures, and goal setting. (SFCC, SCC)

PE 139 - Weight Training (1 cr)

This course covers modern weight training techniques, including strength and endurance training, and flexibility and coordination. Students learn proper techniques of both Olympic freebar weights and machine circuit training programs. (SCC, SFCC)

PE 140 - Beginning Ski Conditioning (1 cr)

Ski conditioning class is an intense concentration of exercises that complement the basic movements of skiing. The emphasis is on improving the general level of body conditioning, flexibility and improvement of cardiovascular functions as they relate to skiing. (SFCC)

PE 141 - Theory and Conditioning of Soccer (2 cr)

This is an intense program of physical activity to enhance flexibility, strength, endurance and cardiovascular functions. The course is designed for students interested in individual and team competition. (SCC, SFCC)

PE 143 - Theory and Conditioning of Basketball (2 cr)

This is an intense program of physical activity to enhance flexibility, strength, endurance and cardiovascular function. The course is designed for students interested in individual and team competition. (SCC, SFCC)

PE 144 - Theory and Conditioning of Softball (2 cr)

This is an intense program of physical activity to enhance flexibility, strength, endurance and cardiovascular functions. The course is designed for students interested in individual and team competition. (SCC, SFCC)

PE 145 - Theory and Conditioning of Baseball (2 cr)

This is an intense program of physical activity to enhance flexibility, strength, endurance and cardiovascular functions. The course is designed for students interested in individual and team competition. (SCC, SFCC)

PE 146 - Theory and Conditioning of Cross Country (2 cr)

This is an intense program of physical activity to enhance flexibility, strength, endurance and cardiovascular functions. The course is designed for students interested in individual and team competition. (SCC, SFCC)

PE 147 - Theory and Conditioning of Track (2 cr)

This is an intense program of physical activity to enhance flexibility, strength, endurance and cardiovascular functions. The course is designed for students interested in individual and team competition. (SCC, SFCC)

PE 149 - Theory and Conditioning of Golf (2 cr)

This is a complete offering of skill development, playing strategies, course management, and concepts and rules mastery as they relate to the game of golf. The course is designed for students interested in individual and team competition. (SCC, SFCC)

PE 151 - Theory and Conditioning of Tennis (2 cr)

This is an intense program of physical activity to enhance flexibility, strength, endurance and cardiovascular functions. The course is designed for students interested in individual and team competition. (SCC, SFCC)

PE 154 - Theory and Conditioning of Volleyball (2 cr)

This is an intense program of physical activity to enhance flexibility, strength, endurance and cardiovascular functions. The course is designed for students interested in individual and team competition. (SCC, SFCC)

PE 156 - Techniques of Soccer (3 cr)

This course is a study of the rules, team organization, techniques and strategy of soccer. (SCC, SFCC)

PE 157 - Track Techniques (3 cr)

This course is a study of the rules, techniques, and strategy of track and field events. (SCC, SFCC)

PE 158 - Techniques of Tennis (3 cr)

This course presents intense techniques of tennis designed for students interested in competitive play in either singles or doubles. Advanced drills, footwork, agility and conditioning for competitive play are emphasized. (SCC, SFCC)

PE 159 - Techniques of Golf (3 cr)

This course is a study of the rules, techniques, fundamentals and skills of golf. It is designed for students interested in individual and team competition. (SCC, SFCC)

PE 160 - Techniques of Volleyball (3 cr)

This course is a study of the rules, team organization, techniques and strategies of volleyball. (SCC, SFCC)

PE 164 - Techniques of Basketball (3 cr)

This course presents an intense study of proper basketball techniques, fundamentals and skills. Individual and team offensive and defensive strategies and philosophies also are presented. The course is designed for students interested in individual and team competition. (SCC, SFCC)

PE 165 - Techniques of Baseball (3 cr)

This course is designed to develop knowledge and physical skills of baseball in a laboratory setting. Students learn rules and strategies of baseball, and basic fundamentals of hitting, throwing and catching as applied to the individual's position or positions. (SCC, SFCC)

PE 169 - Techniques of Softball (3 cr)

This course is designed for students interested in competitive fast pitch softball. Advanced drills, skills, techniques and conditioning for competitive play are emphasized. (SCC, SFCC)

PE 170 - Introduction to Physical Education and Recreation (3 cr)

This course is designed to develop introductory skills and increase knowledge in the occupational areas of health, physical education, recreation and coaching. Students learn historical factors that have shaped the profession, current trends, philosophies and objectives of physical education. (SCC, SFCC)

PE 177 - Beginning Body Conditioning (1 cr)

A variety of activities that lead to overall improvement of body conditioning, weight training, walking, jogging, calisthenics and organized physical activities will be employed to increase efficiency of cardiovascular functions. (SCC, SFCC)

PE 182 - Beginning Ballet (1 cr)

Introduction and explanation of ballet from fundamental to more complex techniques. (SFCC)

PE 185 - Beginning ZUMBA® Aerobic Fitness (1 cr)

A program of stretching and aerobic conditioning set to music. Course designed to improve and appraise flexibility, strength and cardiovascular fitness through a variety of aerobic techniques. (SCC, SFCC)

PE 186 - Fast Fitness, Beginning (1 cr)

Comprehensive physical fitness course designed to develop strength, flexibility, muscular endurance and cardiovascular efficiency in an effective and timely manner through the use of circuits. (SCC, SFCC)

PE 187 - Cross Training (2 cr)

The term cross training is the involvement of a variety of different activities into a single coordinated program. The objective is to achieve high levels of strength, endurance and flexibility while at the same time preventing injuries. It is necessary to include different types of activities into a weekly routine. The cross training class focuses on the following: Development of a comprehensive, personalized fitness program utilizing the state-of-the-art equipment in the Fitness Center. The course will require a basic knowledge of the fast fitness circuit concept and an understanding of the cardiovascular equipment. Individual programs will incorporate the use of all exercise equipment in the Fitness Center. In addition, individuals need to include other activities such as running, rowing, cycling, stair climbing, cross-country skiing, free weight training, in-line skating and walking. Monthly goals are predetermined and a daily training record will be kept to evaluate the individual's progress toward his/her goals. (SCC, SFCC)

PE 188 - Basic Fitness I (2 cr)

To promote total body wellness, students will learn to incorporate exercise and nutrition as part of a healthy lifestyle. Group exercise activity is combined with lecture/labs to give students an understanding of physical fitness theory and technique. Students in the on-ground version of this course will participate in instructor lead group exercise activities such as Yoga, aerobic training, muscle conditioning, ZUMBA®, Pilates, and Kickboxing. In the online version, student may participate in gym workouts, group fitness classes, team athletics, dance, water sports, cycling etc. Topics of lecture/labs may include goal setting, fitness assessment, components of fitness, principles of fitness, major muscles of the human body, target heart rate calculation, and nutritional assessment. Gain knowledge that can be used for a lifetime, while having fun participating in exercise activities to help you reach your fitness goal. (SCC, SFCC)

PE 200 - Fitness for Life (1 cr)

This course is designed to acquaint students with proper methods and techniques for establishing an individualized personal wellness and fitness program. It is conducted in the campus Fitness Center and includes personalized inventory and appraisal of current fitness level and explores options available to improve cardiovascular endurance, weight control, strength and flexibility. (SCC, SFCC)

PE 201 - Advanced Volleyball (1 cr)

Fundamental skills, rules, etiquette and strategy; development of skills through drills and competitive play. (SCC, SFCC)

PE 205 - Advanced Badminton (1 cr)

Fundamental skills, rules of the game, court etiquette, techniques, and strategy of singles and doubles play. (SCC, SFCC)

PE 206 - Yoga Fitness (1 cr)

This course promotes individual fitness and total mind-body health. Strength and stretching movements, flexibility and breathing exercises, and relaxation techniques are presented. (SCC, SFCC)

PE 207 - Jogging (1 cr)

Course designed to improve the student's level of physical fitness and wellness, teach proper methods of running/jogging, encourage proper body weight and body fat levels, and establish a permanent habit of exercise. (SCC, SFCC)

PE 208 - Advanced Tennis (1 cr)

Basic skills and techniques needed for singles and doubles play. Court etiquette, rules, strategy, scoring and terminology. (SCC, SFCC)

PE 214 - Advanced Karate (1 cr)

Fundamental skills, philosophy, rules and strategy of karate. Emphasizes a combination of skill, power and discipline. (SCC, SFCC)

PE 215 - Advanced Soccer (1 cr)

Basic skills, strategy and team play involved in the game of soccer. (SCC, SFCC)

PE 216 - Advanced Basketball (1 cr)

Fundamentals of ball handling, shooting, passing, and techniques of offensive and defensive play. Competitive play situations provided. (SCC, SFCC)

PE 217 - Kickboxing (1 cr)

Students learn the basic skills, techniques and safety procedures of kickboxing. Sport specific activities to improve individual balance, strength, endurance and cardiovascular conditioning are emphasized. (SCC, SFCC)

PE 218 - Advanced Bowling (1 cr)

This course is designed to teach fundamental skills, rules, techniques, scoring and etiquette of bowling. (SFCC)

PE 220 - Advanced Softball (1 cr)

Fundamentals of team play, rules and game strategies. Emphasis placed on participation by all. (SCC, SFCC)

PE 222 - Advanced Skiing (1 cr)

Instruction at all levels of competency in the skills and techniques of skiing. Classes are held at Mt. Spokane. (SCC, SFCC)

PE 226 - Advanced Golf (1 cr)

Practice and development of fundamental skills, rules and etiquette of golf. (SCC, SFCC)

PE 227 - Advanced Jazz Dance (1 cr)

Course includes jazz dance oriented stretching and warm-ups. Class will learn jazz combinations, walks and steps incorporated in a variety of dance routines. (SFCC)

PE 230 - Pickleball (1 cr)

Fundamental skills, rules of the game, court etiquette, techniques, and strategy of singles and doubles play. (SCC, SFCC)

PE 235 - Gymnastics (1 cr)

Gymnastics basics covering beginning, intermediate and advanced levels in the areas of tumbling, flexibility, vaulting, bars and balance beam. (SCC)

PE 239 - Weight Training (1 cr)

This course covers modern weight training techniques, including strength and endurance training, and flexibility and coordination. Students learn proper techniques of both Olympic freebar weights and machine circuit training programs. (SCC, SFCC)

PE 240 - Advanced Ski Conditioning (1 cr)

Ski conditioning class is an intense concentration of exercises that complement the basic movements of skiing. The emphasis is on improving the general level of body conditioning, flexibility and improvement of cardiovascular functions as they relate to skiing. (SFCC)

PE 241 - Theory and Conditioning of Soccer (2 cr)

This is an intense program of physical activity to enhance flexibility, strength, endurance and cardiovascular functions. The course is designed for students interested in individual and team competition. (SCC, SFCC)

PE 243 - Theory and Conditioning of Basketball (2 cr)

This is an intense program of physical activity to enhance flexibility, strength, endurance and cardiovascular function. The course is designed for students interested in individual and team competition. (SCC, SFCC)

PE 244 - Theory and Conditioning of Softball (2 cr)

This is an intense program of physical activity to enhance flexibility, strength, endurance and cardiovascular functions. The course is designed for students interested in individual and team competition. (SCC, SFCC)

PE 245 - Theory and Conditioning of Baseball (2 cr)

This is an intense program of physical activity to enhance flexibility, strength, endurance and cardiovascular functions. The course is designed for students interested in individual and team competition. (SCC, SFCC)

PE 246 - Theory and Conditioning of Cross Country (2 cr)

This is an intense program of physical activity to enhance flexibility, strength, endurance and cardiovascular functions. The course is designed for students interested in individual and team competition. (SCC, SFCC)

PE 247 - Theory and Conditioning of Track (2 cr)

This is an intense program of physical activity to enhance flexibility, strength, endurance and cardiovascular functions. The course is designed for students interested in individual and team competition. (SCC, SFCC)

PE 249 - Theory and Conditioning of Golf (2 cr)

This is a complete offering of skill development, playing strategies, course management, and concepts and rules mastery as they relate to the game of golf. The course is designed for students interested in individual and team competition. (SCC, SFCC)

PE 251 - Theory and Conditioning of Tennis (2 cr)

This is an intense program of physical activity to enhance flexibility, strength, endurance and cardiovascular functions. The course is designed for students interested in individual and team competition. (SCC, SFCC)

PE 254 - Theory and Conditioning of Volleyball (2 cr)

This is an intense program of physical activity to enhance flexibility, strength, endurance and cardiovascular functions. The course is designed for students interested in individual and team competition. (SCC, SFCC)

PE 256 - Techniques of Soccer (3 cr)

This course is a study of the rules, team organization, techniques and strategy of soccer. (SCC, SFCC)

PE 257 - Track Techniques (3 cr)

This course is a study of the rules, techniques, and strategy of track and field events. (SCC, SFCC)

PE 258 - Techniques of Tennis (3 cr)

This course presents intense techniques of tennis designed for students interested in competitive play in either singles or doubles. Advanced drills, footwork, agility and conditioning for competitive play are emphasized. (SCC, SFCC)

PE 259 - Techniques of Golf (3 cr)

This course is a study of the rules, techniques, fundamentals and skills of golf. It is designed for students interested in individual and team competition. (SCC, SFCC)

PE 260 - Techniques of Volleyball (3 cr)

This course is a study of the rules, team organization, techniques and strategies of volleyball. (SCC, SFCC)

PE 264 - Techniques of Basketball (3 cr)

This course presents an intense study of proper basketball techniques, fundamentals and skills. Individual and team offensive and defensive strategies and philosophies also are presented. The course is designed for students interested in individual and team competition. (SCC, SFCC)

PE 265 - Techniques of Baseball (3 cr)

This course is designed to develop knowledge and physical skills of baseball in a laboratory setting. Students learn rules and strategies of baseball, and basic fundamentals of hitting, throwing and catching as applied to the individual's position or positions. (SCC, SFCC)

PE 266 - Cooperative Education Seminar (1-2 cr)

For course description, see Cooperative Education. (SCC, SFCC)

PE 267 - Cooperative Education Work Experience (1-3 cr)

For course description, see Cooperative Education. (SCC, SFCC)

PE 269 - Techniques of Softball (3 cr)

This course is designed for students interested in competitive fast pitch softball. Advanced drills, skills, techniques and conditioning for competitive play are emphasized. (SCC, SFCC)

PE 272 - Psychology of Athletic Achievement (3 cr)

This course provides the student with the principles and practices of personal achievement as applied to athletics and academic endeavors. Techniques of developing a positive self-image through understanding and application of basic philosophies relating to goal setting, motivation and personal discipline are introduced. (SCC, SFCC)

PE 275 - Diversity In Sports (5 cr)

This course will explore the progression of diversity in American sports and its impact on our modern culture. Accessibility and opportunities for those overcoming diversity issues such as ethnicity, religion, gender, and disabilities will be examined in the context of professional and amateur sports. The impact of this progression and its influence on our society both politically and morally will be studied. (SFCC, SCC)

PE 277 - Advanced Body Conditioning (1 cr)

A variety of activities that lead to overall improvement of body conditioning, weight training, walking, jogging, calisthenics and organized physical activities will be employed to increase efficiency of cardiovascular functions. (SCC, SFCC)

PE 282 - Advanced Ballet (1 cr)

Introduction and explanation of ballet from fundamental to more complex techniques. (SFCC)

PE 285 - Advanced ZUMBA® Aerobic Fitness (1 cr)

A program of stretching and aerobic conditioning set to music. Course designed to improve and appraise flexibility, strength and cardiovascular fitness through a variety of aerobic techniques. (SCC, SFCC)

PE 286 - Fast Fitness, Advanced (1 cr)

Comprehensive physical fitness course designed to develop strength, flexibility, muscular endurance and cardiovascular efficiency in an effective and timely manner through the use of circuits. (SCC, SFCC)

PE 287 - Cross Training (2 cr)

The term cross training is the involvement of a variety of different activities into a single coordinated program. The objective is to achieve high levels of strength, endurance and flexibility while at the same time preventing injuries. It is necessary to include different types of activities into a weekly routine. The cross training class focuses on the following: Development of a comprehensive, personalized fitness program utilizing the state-of-the-art equipment in the Fitness Center. The course will require a basic knowledge of the fast fitness circuit concept and an understanding of the cardiovascular equipment. Individual programs will incorporate the use of all exercise equipment in the Fitness Center. In addition, individuals need to include other activities such as running, rowing, cycling, stair climbing, cross-country skiing, free weight training, in-line skating and walking. Monthly goals are predetermined and a daily training record will be kept to evaluate the individual's progress toward his/her goals. (SCC, SFCC)

PE 288 - Basic Fitness II (2 cr)

To promote total body wellness, students will learn to incorporate exercise and nutrition as part of a healthy lifestyle. Group exercise activity is combined with lecture/labs to give students an understanding of physical fitness theory and technique. Students in the on-ground version of this course will participate in instructor lead group exercise activities such as Yoga, aerobic training, muscle conditioning, ZUMBA®, Pilates, and Kickboxing. In the online version, student may participate in gym workouts, group fitness classes, team athletics, dance, water sports, cycling etc. Topics of lecture/labs may include goal setting, fitness assessment, components of fitness, principles of fitness, major muscles of the human body, target heart rate calculation, and nutritional assessment. Gain knowledge that can be used for a lifetime, while having fun participating in exercise activities to help you reach your fitness goal. Prerequisite: PE 188. (SCC, SFCC)

PHARMACY TECHNICIAN

PHARM 101 - Introduction to Pharmacy Technician (3 cr)

This course introduces students to practice roles of pharmacy technicians. Employment opportunities, medical terminology, drug dosage forms, IV infusion, introduction to prescription interpretation and pharmacy law are emphasized. (SCC)

PHARM 115 - Mathematics for Pharmacy Technicians (3-5 cr)

Students are introduced to the application of basic math skills to real-life scenarios in pharmacy technician career fields. This course includes review of basic skills, followed by applications of dosage calculations for IVs, tablets, liquids and injectables. Students are also introduced to the applications of math skills determined by body surface area, chemotherapy and pediatric dosing. (SCC)

PHARM 119 - Pharmacology (3 cr)

Students learn to identify drugs normally used in hospital and retail pharmacy settings. Therapeutic drug classifications, routes of administration, codes and abbreviations, and correct drug name spelling are emphasized. Students also learn to distinguish between generic and trade (brand) names of drugs. (SCC)

PHARM 122 - Advanced Pharmacology (5 cr)

Students learn to categorize the top 200 drugs into the major therapeutic classifications; distinguish between generic and brand names of drugs; identify accepted dosage forms, routes and dosing intervals of each drug. Human medical conditions relating to anatomy and physiology are emphasized. Prerequisite: PHARM 119. (SCC)

PHARM 123 - Hospital Pharmacy Dispensing and Management (5 cr)

Students learn to assist the pharmacist with preparing and dispensing prescription drugs within the hospital setting. Verbal and written communication skills are emphasized. Students are introduced to appropriate inventory control and purchasing. Prerequisite: PHARM 101, 119 with a 2.0 grade or better. (SCC)

PHARM 124 - Community Pharmacy Dispensing and Management (3 cr)

This course prepares students to develop the knowledge and skills needed to assist the pharmacist in preparing and dispensing prescription drugs in a community pharmacy setting. Verbal and written communications skills, prescription interpretation, and third party billing are emphasized. Prerequisite: PHARM 101, 119 with a 2.0 grade or better. (SCC)

PHARM 130 - Entering the Work Environment (2 cr)

This course prepares students for success in health careers. Students learn job-readiness skills including work ethics, professionalism, resume writing, communication skills and self-esteem. (SCC)

PHARM 131 - Pharmacy Law and Ethics (3 cr)

Students learn the law relating to pharmacy, agencies that regulate pharmacy practice and quality assurance. (SCC)

PHARM 132 - Community Pharmacy (6 cr)

The course introduces students to the procedures permitted the pharmacy technician in the state of Washington regarding community pharmacy. Prerequisite: PHARM 122, 123, 124 with a 2.0 grade or better. (SCC)

PHARM 133 - Hospital Pharmacy (6 cr)

This course offers clinical practice to perfect students' competence in performing pharmacy technician functions that take place under direct supervision of the pharmacist. Students work in a hospital pharmacy assisting the pharmacist. Prerequisite: Completion of all prior required courses with a 2.0 grade or better. (SCC)

PHILOSOPHY

PHIL& 101 - Intro to Philosophy (5 cr)

Designed to enable students to examine the fundamental problems in philosophy by reading selectively the writings of the significant philosophers and analyzing them in discussion seminars. The lectures are designed to develop a perspective and sense of continuity toward the growth of Western thought. (SCC, SFCC)

PHIL 110 - Intro to Ethics (5 cr)

A systematic and historical analysis of some of the problems in ethics. An examination of some of the principle ethical positions and the criteria for their solutions. (SFCC, SCC)

PHIL& 115 - Critical Thinking (5 cr)

An informal, non-symbolic introduction to logic and critical thinking emphasizing real-life examples, natural language applications, and the informal logical fallacies. (SFCC, SCC)

PHIL& 120 - Symbolic Logic (5 cr)

Introduction to modern symbolic logic emphasizing sentence logic with translation and proofs and quantificational logic with translation and proofs. Prerequisite: A 2.0 or better in Math 088, 097, 098, 099 or 2.0 or better in a 100 level or above Math course or placement score in a 100 level or above Math course. (SCC, SFCC)

PHIL 202 - NURS 202/Ethics and Policy in Healthcare I (3 cr)

This course introduces ethical principles that shape the practice of healthcare professionals and are used to develop healthcare policies. This course is a concept based course introducing ethics, legal issues and health policy to nursing practice. Prerequisite: Acceptance into the nursing program. (SCC)

PHIL 207 - NURS 207/Ethics and Policy in Healthcare II (2 cr)

This course builds from the content introduced in NURS 202. Students apply the ethical principles that are used to develop and implement healthcare policies in a variety of healthcare settings. Prerequisite: Acceptance into the nursing program. (SCC)

PHIL 209 - Eastern Philosophy (5 cr)

An introduction to the philosophical perspective and values of eastern cultures and traditions. (SCC, SFCC)

PHIL 215 - Environmental Philosophy (5 cr)

Students explore the philosophical relationship between human beings and the non-human world. The moral status of animals and ecosystems, anthropocentrism versus biocentrism, environmental economics and public policy, deep ecology, ecofeminism, and the idea of a "land ethic" are emphasized. (SFCC)

PHIL 220 - Philosophy of Religion (5 cr)

The course is designed to give the student an understanding of both classical and contemporary philosophy of religion by concentrating on the nature of religion, religious disagreements, the existence of God, the problem of evil, the relation between faith and reason, and religious language. (SCC, SFCC)

PHIL 231 - Modern Philosophical Problems (5 cr)

The course includes both purely philosophical and literary manifestations of existentialism. Treatment follows a historical progression from the 19th century forerunners of existentialism (Dostoevsky, Nietzsche, Kierkegaard) to the major modern representatives (Heidegger, Jaspers, Sartre and Camus). Prerequisite: PHIL& 101 or PHIL 210 or permission of instructor. (SCC, SFCC)

PHIL 266 - Cooperative Education Seminar (1-2 cr) For course description, see Cooperative Education. (SFCC)

PHIL 267 - Cooperative Education Work Experience (1-8 cr) For course description, see Cooperative Education. (SFCC)

PHOTOGRAPHY

PHOTO 101 - Introduction to Photography (5 cr)

This course introduces black and white photography from a historical, artistic and experiential perspective. Students learn basic camera operation, printmaking and composition while exploring the cultural impact photography has on society. (SFCC)

PHOTO 102 - Photographic Appreciation (2 cr)

Students explore current and historical trends in photography and identify career opportunities in a wide variety of visual communication fields. Students discover the work of photographers and designers who have had significant impact on the field and learn to speak the "language" of photography in a professional environment. (SFCC)

PHOTO 111 - Studio Photography I (4 cr)

Students learn to control lighting and exposure in a studio environment while exploring a variety of subjects, including still life, commercial product and people photography. Students learn to identify the characteristics of light on a subject, operate studio lighting equipment and master a variety of metering techniques to calculate proper exposure. Prerequisite: PHOTO 101 or permission of instructor. (SFCC)

PHOTO 112 - Photographic Design (4 cr)

Students in this course discover the artistic substance of photography through the application of design principles in photography. Students compose images that are balanced, exhibit depth, and explore the relationship between visual elements, emotions and ideas. Students learn to assess their work and formulate criteria for critiquing photography and design. Prerequisite: PHOTO 101 or permission of instructor. (SFCC)

PHOTO 115 - Photography Lab II (3 cr)

Students apply the skills acquired in second-quarter photography classes and develop work habits to meet employer standards when using darkroom and shooting room facilities in the photography building. Prerequisite: PHOTO 101. (SFCC)

PHOTO 120 - Photographic Arts (3 cr)

Students will develop artistic interpretations of black and white images by applying alternative printing techniques. Processes will include solarization, photo montage, toning, making digital negatives/enlarged B&W negatives, Cyanotype, Van Dyke, image transfers, and printing with liquid emulsion on a variety of media such as canvas, watercolor paper, glass, metal and ceramic. Prerequisite: PHOTO 101 or permission of instructor. (SFCC)

PHOTO 121 - Location Photography I (4 cr)

This course applies the principles of studio photography outside of the studio by teaching students to analyze and modify lighting conditions on location. Students identify the effects of different types of light sources and apply supplemental lighting to make dynamic exposures of people, products, interior design and architectural landscapes. Prerequisite: PHOTO 101 or permission of instructor. (SFCC)

PHOTO 125 - Photography Lab III (3 cr)

Students in this course apply the skills acquired in third-quarter photography classes and develop work habits to meet employer standards when using darkroom and shooting room facilities in the photography building. Prerequisite: PHOTO 115. (SFCC)

PHOTO 126 - Digital Photography (5 cr)

Students explore the techniques and applications of acquiring, editing, and outputting digital photographic images. Emphasis is placed on camera operation and professional digital workflow. (SFCC)

PHOTO 131 - Introduction to Photojournalism (3 cr)

Students in this course assume the role of photojournalist while investigating the ethical issues involved with journalism in America. Students tell stories with pictures, develop an eye for alternative image perspectives, gather accurate assignment information and work with editors in a fast-paced environment. Students are provided an opportunity to visit with working professionals and to explore career opportunities in journalism. (SFCC)

PHOTO 132 - Advanced Black and White Photography (3 cr)

This course provides students an opportunity to fully explore the capabilities of black and white photography while learning the Zone system and advanced darkroom techniques. Prerequisite: PHOTO 101 or permission of instructor. (SFCC)

PHOTO 133 - Color Lab (3 cr)

Students explore the technical and aesthetic aspects of color reproduction in photography. Emphasis is placed on color management within a digital workflow and maintaining device independent color fidelity among different output medium such as the computer monitor, photochemical prints, inkjet prints, and four-color presses. (SFCC)

PHOTO 200 - Photography Media (4 cr)

This course focuses on photography as a communication tool. Instead of concentrating on a single image, students script and produce a multimedia presentation that combines still-images, sounds, text and graphics. Students explore ways to market multimedia presentations to corporations and government agencies, and survey current multimedia technology. Prerequisite: PHOTO 101. (SFCC)

PHOTO 205 - Professional Business Practices 1 (3 cr)

This course introduces students to basic business practices within the field of photography and video production. Topics covered include model releases, property releases, and freelance assignment contracts. Students will complete photography projects in a manner that emulates a professional studio environment. Prerequisite: PHOTO 115 or permission of instructor. (SFCC)

PHOTO 215 - Portfolio Development I (3 cr)

Students design and produce projects for their portfolios in this course. In addition, earlier student work is assessed and revised to bring it up to portfolio standards. Topics covered include: Building a brand identity, sequencing, and presentation technology. (SFCC)

PHOTO 225 - Portfolio Development II (3 cr)

Students design and produce new work for their portfolios. Prior portfolio work is refined in preparation for entering the profession. Topics covered include: Repurposing physical portfolios into digital media, marketing and promotion. (SFCC)

PHOTO 227 - Professional Business Practices II (3 cr)

Students in this course set career goals and develop a comprehensive personal plan of action. Students gain knowledge of business practices unique to the field of photography, while taking inventory of the skills necessary to be successful. Topics include different methods for earning income, development of a step-by step strategy to achieve success, business contracts, customer service policies, marketing, financial breakdowns of pricing strategies, sales presentations, professional associations and sources for further education. Prerequisite: PHOTO 205 or permission of instructor. (SFCC)

PHOTO 231 - Studio Photography II (4 cr)

Students expand their knowledge of a variety of lighting and metering techniques introduced in PHOTO 111 to create dynamic images of people and products for advertising layouts. Students develop problem-solving skills as they work with art directors, prepare bids and research current trends in commercial photography. Prerequisite: PHOTO 111 or permission of instructor. (SFCC)

PHOTO 232 - Portraiture (4 cr)

This class focuses on the skills necessary for working with people in the portrait photography field. Students discover lighting and posing techniques to augment an individual's appearance while exploring the variety of markets for portrait photography including high school seniors, weddings, families, executives, children and fine-art portraiture. Prerequisite: PHOTO 101 or permission of instructor. (SFCC)

PHOTO 233 - Location Photography II (4 cr)

Students in this course apply a variety of lighting, metering and color correction techniques introduced in PHOTO 121 to gain experience in the corporate and industrial segments of commercial photography. Subjects vary from architectural design, corporate communication and working with fashion models on location. Prerequisite: PHOTO 121 or permission of instructor. (SFCC)

PHOTO 234 - Digital Photography II (5 cr)

Students in this course apply acquired skills acquired to create imaginative photographic illustrations and prepare them for publication. An emphasis is placed on color management and preparing images for the Internet. Prerequisite: PHOTO 126. (SFCC)

PHOTO 235 - Nature and Landscape Photography (5 cr)

This course teaches students to refine their composition skills while capturing images of nature, wildlife and landscapes. Marketing of images through publishers, stock agencies and art galleries is discussed. Prerequisite: PHOTO 101 or permission of instructor. (SFCC)

PHOTO 236 - Photography Workshop (1-4 cr)

This class enables students to keep abreast of current trends and conduct research projects in various facets of photography. This course may be repeated for up to 12 credits. (SFCC)

PHOTO 237 - Introduction to Documentary DV Production (5 cr)

Students examine a variety of creative approaches to filmmaking while using current digital video technology to produce their own short films. Students explore the history of "non-fiction" filmmaking and identify the major characteristics of the documentary genre. Special emphasis is placed on identifying relevant applications of digital video technology within the photographic industry such as: Wedding and event videography, corporate communications and short documentaries. (SFCC)

PHOTO 238 - Fashion Photography (4 cr)

Students explore historical origins, the role of photography in shaping fashion trends, major historical movements and photographic masters and trendsetters of fashion photography. This class focuses on the knowledge and skills necessary for producing effective fashion, beauty, glamour, and product imagery for advertising and editorial purposes. Advanced lighting and posing techniques, in studio and on location, are stressed. Photographic assignments explore preproduction, pose, wardrobe, propping and environment while creating conceptually stylized imagery. Post-production techniques include digital retouching and preparing images for publication. Prerequisite: PHOTO 101, 126 or permission of instructor. (SFCC)

PHOTO 240 - Large Format Photography (4 cr)

Students explore the photographic techniques and the mechanics of the large format view camera. Focus is on building a technical knowledge while developing skills in large format camera use. Topics covered include a historical overview of the view camera, view camera design, optical principals, camera movements and operations. Assignment work stresses practical applications in still- life, architecture, portraiture, and landscape and macro photography. Prerequisite: PHOTO 101 or permission of instructor. (SFCC)

PHOTO 247 - HDSLR Filmmaking (5 cr)

Students plan and create cinematic digital video productions using contemporary digital SLR camera technology and associated audio and lighting equipment. Students are introduced to professional production management practices related to filmmaking. Prerequisite: PHOTO 237 or permission of instructor (SFCC)

PHOTO 266 - Cooperative Education Seminar (1-2 cr) For course description, see Cooperative Education. (SFCC)

PHOTO 267 - Cooperative Education Work Experience (1-18 cr)

For course description, see Cooperative Education. (SFCC)

PHYSICS

PHYS 100 - Introductory Physics (5 cr)

This course is intended for nonscience majors to provide exposure to the culture of physics-its history, principles, laws, recent developments and societal impacts. Math is minimal, and weekly laboratory study is required. (SCC, SFCC)

PHYS 101 - General Physics (5 cr)

This course is for science and other majors not requiring calculus-level physics. There is an emphasis on mechanics, Newton's Laws of Motion, rotation motion and conservation principles. This course also requires a weekly laboratory. Prerequisite: 2.0 or better in one of the following MATH courses: MATH& 141, 142, 151, 152, 153, 254, MATH 220, 225, 274. (SCC, SFCC)

PHYS 102 - General Physics (5 cr)

For science and other majors not requiring calculus-level physics. Emphasis on wave motion optics, thermodynamics and fluids. Requires weekly laboratory. Prerequisite: PHYS 101. (SCC, SFCC)

PHYS 103 - General Physics (5 cr)

For science and other majors not requiring calculus-level physics. Emphasis on electricity, magnetism, relativity and quantum physics. Requires weekly laboratory. Prerequisite: PHYS 101. (SCC, SFCC)

PHYS 120 - Fundamentals of Medical Physics (5 cr)

This course emphasizes applications of physics in the health science areas for cardiopulmonary and echocardiographic instrumentation. Topics covered include mechanics, fluid statics (Archimedes' and Pascal's Principles), molecular phenomena related to biological processes, elasticity and wave motion, physics of sonographic imaging, and instruments. Prerequisite: MATH 099 or equivalent; PHYS 100 or high school physics. Enrollment is limited to invasive or noninvasive cardiovascular technology students. (SCC)

PHYS 201 - Engineering Physics I (5 cr)

Calculus-level classical physics with emphasis on mechanics. This course is for engineering and physical science majors transferring to four-year institutions. Topics include kinematics, dynamics, gravity, momentum and energy. A weekly laboratory is required. Prerequisite: MATH&152 and PHYS 100 or one year of high school physics and concurrent enrollment in MATH& 153. (SFCC)

PHYS 202 - Engineering Physics II (5 cr)

Calculus-level classical electricity and magnetism for physical science and engineering majors. Topics include AC and DC circuits, Gauss' Law, Kirchhoff's Laws and Maxwell's equations. A weekly laboratory is required. Prerequisite: MATH& 153 and PHYS 201. (SFCC)

PHYS 203 - Engineering Physics III (5 cr)

Calculus-level classical thermodynamics and wave mechanics for physical science and engineering majors. Topics include laws of thermodynamics, thermal properties of matter, mechanical waves, sound and light. A weekly laboratory is required. Prerequisite: MATH& 153 and PHYS 201. (SFCC)

POLITICAL SCIENCE

POLS& 101 - Intro to Political Science (5 cr)

Development of Western political theory and ideology, comparative analysis of contemporary ideologies, examination of political processes with emphasis on the individual's role. (SCC, SFCC)

POLS 102 - Comparative Government (5 cr)

This is an introductory, interdisciplinary course designed to introduce students to the systematic study of comparative political systems. In an increasingly interdependent world, this course provides students with the conceptual and analytical tools to study political behavior, institutions and processes of various countries across the globe. (SCC)

POLS 125 - Introduction to Global Issues (5 cr)

This is an introductory, multidisciplinary course designed to introduce the student to pertinent global issues. A goal of this course is to foster and promote understanding, attitudes and skills that enables citizenry in local communities to function humanely in an age of global interdependence. (SCC, SFCC)

POLS& 202 - American Government (5 cr)

The basic course develops an understanding of American politics and political institutions, the philosophies and concepts of American constitutionalism, and the structure and operation of the American form of government. Emphasis is placed on the theories and practice of democracy, pluralism and elitism. (SCC, SFCC)

POLS& 203 - International Relations (5 cr)

A broad survey of the relations of nations: Political, military, economic and cultural, and of the forces for order in the international world. (SCC, SFCC)

POLS 204 - Political Philosophy (5 cr)

This is an introduction to the basic theories behind political philosophy. Areas of emphasis includes government, state of nature, authority and legitimacy. (SCC)

POLS 205 - Islam and the West: Theater of Cooperation and Conflict (5 cr)

This introductory, multidisciplinary course introduces students to the systematic study of Islam and the West in world politics. Conceptional and analytical tools to study Global Islam are provided. (SCC, SFCC)

PSYCHOLOGY

PSYC& 100 - General Psychology (5 cr)

A general survey of the following areas of psychology: Physiology, sensation/perception, cognition/memory, motivation, learning, development, social, intelligence, personality, mental health and scientific method. (SCC, SFCC)

PSYC 106 - NURS 106/Psychosocial Issues in Healthcare I (2 cr)

This course examines the determinants of health and illness to include social, psychosocial, environmental, spiritual and cultural dimensions across the lifespan and within the context of health care. Prerequisite: Acceptance into the nursing program. (SCC)

PSYC 113 - NURS 113/Psychosocial Issues in Healthcare II (3 cr)

This course applies the determinants of health and illness to include social, psychosocial, environmental, spiritual and cultural dimensions across the lifespan and within the context of healthcare. Prerequisite: Acceptance into the nursing program. (SCC)

PSYC& 180 - Human Sexuality (5 cr)

Explores the physiological, sociocultural and psychological aspects of sexuality. Covers the major theoretical constructs and empirical data regarding sexuality. May cover research techniques, sexual anatomy and physiology, reproduction, gender roles and development, sexual response, sexual behavior, orientation, relationships, love, sexual communication, sexual dysfunctions, sexually transmitted infections and treatment, sexual abuse and assault. (SFCC, SCC)

PSYC& 200 - Lifespan Psychology (5 cr)

A survey of human development from conception through late adulthood. Physical, emotional, cognitive and psychosocial development will be explored. Prerequisite: Must have passed PSYC& 100 with a 2.0 or better within the last five years or permission of instructor. (SCC, SFCC)

PSYC 204 - Research Methods in Social Science (5 cr)

The study of the basic data, theory, methodology and attitudes of the social scientist independent of any special area. Prerequisite: PSYC& 100 or SOC& 101. (SCC, SFCC)

PSYC 209 - The Psychology of Personal and Interpersonal Peace (5 cr)

The study of behavior and mental processes associated with human violence and nonviolence, approached from Western and Eastern psychological perspectives. This cross-cultural course closely examines and analyzes individual personal and interpersonal experience to reveal and clarify processes of conflict and peace. Students will learn psychological methods to resolve conflicts and achieve personal and interpersonal peace. Prerequisite: PSYC& 100 or permission of instructor. (SFCC)

PSYC 210 - Conception through Adolescent Developmental Psychology (5 cr)

A survey of human development focusing on the physical, mental and emotional/social growth processes from conception through adolescence. Other topics include the history and principles of developmental psychology, childhood education and parenting. Prerequisite: Must have passed PSYC& 100 with a 2.0 or better within the last five years or permission of instructor. (SCC, SFCC)

PSYC& 220 - Abnormal Psychology (5 cr)

An introduction to the diagnosis, classification, research and theoretical concepts relating to abnormal and deviant behavior. Prerequisite: PSYC& 100 with a 2.0 or better within the last five years or permission of instructor. (SCC, SFCC)

PSYC 250 - Psychology of Adjustment (5 cr)

Human behavioral, mental and emotional experience are described and analyzed in the context of mental health and psychological growth, with emphasis on issues and problems of personal development and interpersonal relationships. Prerequisite: Must have passed PSYC& 100 with a 2.0 or better within the last five years or permission of instructor. (SCC, SFCC)

PSYC 333 - Motivation (5 cr)

Motivational Psychology is conceptualized as the application of valid and reliable Psychological principles related to Leadership and Motivation in the workplace. The purpose of this class is to maximize both employee well-being and organizational effectiveness by focusing on social, individual, and situational factors related to Leadership and Motivation in the workplace. General topics include: theories about motivation, workplace behaviors (ex: group dynamics), personality (attitudes and emotions relevant to work), decision making processes, persuasion (the differences between power and influence), managing stress effectively, and promoting fairness and diversity within organizations. Because of the research-based approach of Motivational Psychology, this class will include information about how research is designed, conducted, and interpreted. (SFCC)

PHYSICAL THERAPIST ASSISTANT

PTA 101 - Introduction to Physical Therapy (3 cr)

This course is an introduction to the practice of physical therapy emphasizing the role of the physical therapist assistant as a member of the health care team. Investigation of the law pertaining to the practice of physical therapy and ethical conduct are covered. Issues of teamwork, interpersonal communication skills and patient motivation will be explored. Prerequisite: Acceptance into PTA program. (SFCC)

PTA 102 - Physical Therapy Terminology (1 cr)

This course is a supervised self-study of medical terminology and abbreviations used to describe the anatomy, physiology and pathology of the body systems used in relationship to the practice of physical therapy. Terms associated with diagnostics, surgery, laboratory tests, pharmacology and patient care are included. Prerequisite: Acceptance into PTA program. (SFCC)

PTA 103 - Applied Anatomy (3 cr)

Instruction in human anatomy with an emphasis on the musculoskeletal system. Musculoskeletal structures are explained in their relationship to function. Basic principles of kinesiology (the study of the body in motion) will be presented. The principles of joint range of motion and manual muscle testing will be taught. Respiration and its neuromuscular process will be provided. Prerequisite: Grade of 2.0 or better in previous PTA courses and concurrent enrollment in PTA 104, 105, 173. (SFCC)

PTA 104 - Survey of Pathophysiology (5 cr)

This course includes a basic overview of disease processes, including general pathological responses and the physiology of healing and repair. A description of specific diseases and conditions, and the medical and surgical forms of treatment as they relate to rehabilitation is covered and there is discussion of systemic origins of musculoskeletal pain. Prerequisite: Grade of 2.0 or better in PTA courses or permission of instructor. (SFCC)

PTA 105 - Introduction to Neuroscience (4 cr)

An introduction to the structures and basic functions of the nervous system in relationship to physical therapy treatment of patients with neurological diagnoses is offered in this course. Prerequisite: Grade of 2.0 or better in PTA courses or permission of instructor. (SFCC)

PTA 106 - Regional Human Anatomy and Physiology (5 cr)

Human body structure and function from a regional viewpoint with emphasis on the skeletal, muscular and nervous systems; the respiratory and cardiovascular systems and introduction of digestive and endocrine systems. Prerequisite: BIOL& 241. (SFCC)

PTA 110 - PTA Procedures I: Basic PT Procedures Seminar (3 cr)

Basic introduction to patient care skills including body mechanics, preparation for different patient diagnoses and treatment environments. Basic concepts and components of aseptic and infection control techniques, wound care, edema management, compression bandaging and taping will be explored. Methodology of data collection including vital signs and anthropometric measurements is presented. An introduction to modalities including superficial heat, cold, light therapy, diathermy and hydrotherapy as it pertains to patient care will be taught. Prerequisite: Grade of 2.0 or better in previous PTA courses and concurrent enrollment in PTA 101, 102, 106, 170. (SFCC)

PTA 111 - PTA Procedures II: PT Modalities Seminar (3 cr)

Theory and principles of deep heat modalities, electrotherapy, postural drainage, basic massage, and introduction to fundamentals of traction and other physical agents used in physical therapy. Prerequisite: Grade of 2.0 or better in previous PTA courses and concurrent enrollment in PTA 112, 151, 171, 172. (SFCC)

PTA 112 - PTA Procedures III: Functional Restoration Seminar (3 cr)

Instructional focus on functional restoration techniques for neurologic, orthopedic and other patients requiring physical therapy; including bed mobility, patient transfers, use of assistive devices, orthotics, and prosthetics, wheelchair positioning, and postural analysis. Issues pertaining to the principles of normal and abnormal gait, Americans with Disability Act pertaining to environmental accessibility and community service opportunities will be explored. Prerequisite: Grade of 2.0 or better in previous PTA courses and concurrent enrollment in PTA 111, 151, 171, 172. (SFCC)

PTA 151 - Clinical Experience I (2 cr)

Supervised clinical observation and experience in a variety of physical therapy clinic settings affiliated with the college are provided. A clinical discussion group focuses on interpersonal communication and patient interaction, oral and written patient progress reports, and effective problem-solving skills. Prerequisite: Grade of 2.0 or better in all PTA courses or permission of instructor. (SFCC)

PTA 170 - PTA Procedures I: Basic PT Procedures Lab (4 cr)

Experiential learning of basic patient care skills including vital signs, bandaging, aseptic techniques, wound care and edema management, and athletic taping. Preparation of patient and treatment environment in a laboratory setting. Application of superficial heat, cold, light therapy, diathermy and hydrotherapy. Prerequisite: Grade of 2.0 or better in previous PTA courses and concurrent enrollment in PTA 101, 102, 106, 110. (SFCC)

PTA 171 - PTA Procedures II: PT Modalities Lab (4 cr)

Laboratory course focusing on the application of deep heat modalities, electrotherapy and basic massage techniques. Laboratory sessions include the fundamentals of traction and other physical agents used in physical therapy with an emphasis on communication, utilization and safety in all applications. Prerequisite: Grade of 2.0 or better in previous PTA courses and concurrent enrollment in PTA 111, 112, 151, 172. (SFCC)

PTA 172 - PTA Procedures III: Functional Restoration Lab (4 cr)

Instruction in physical restoration techniques including bed mobility, patient transfers, postural analysis, principles of normal and abnormal ambulation, balance, use of assistive devices, and selected functional rehabilitation activities. Prerequisite: Grade of 2.0 or better in previous PTA courses and concurrent enrollment in PTA 111, 112, 151, 171. (SFCC)

PTA 173 - Applied Anatomy Lab (3 cr)

Laboratory course focusing on human anatomy with an emphasis on the musculoskeletal system and functional movement. External palpation and identification of structures is explained and their relationship to function. Application of basic principles of kinesiology (the study of the body in motion) will be presented. Data collection and assessment pertaining to joint range of motion, manual muscle testing, and respiration will be taught. Prerequisite: Grade of 2.0 or better in previous PTA courses and concurrent enrollment in PTA 103, 104, 105. (SFCC)

PTA 201 - Issues in Physical Therapy and Health Care (2 cr)

This course is a survey of medical, legal, and psychosocial issues relating to the role of the physical therapist assistant in various physical therapy facilities and in the delivery of health care. Emphasis is on the goals of physical therapy and how the PTA can influence the achievement of those goals. Prerequisite: Grade of 2.0 or better in PTA courses or permission of instructor. (SFCC)

PTA 202 - Introduction to Orthopedics (3 cr)

This course is the basic introduction to biomechanics and mechanisms of orthopedic injuries and diseases. Fundamentals of orthopedic terminology are addressed, and a survey of surgical repair with emphasis on rehabilitation is included. Prerequisite: Grade of 2.0 or better in PTA courses or permission of instructor. (SFCC)

PTA 210 - PTA Procedures IV: Therapeutic Exercise Seminar (3 cr)

Instructional focus on physical therapy concepts for therapeutic exercise techniques as they relate to treatment of the spine, extremities, cardiovascular, pulmonary, and vestibular systems. Discussion of stages of healing, post-operative indications and contraindications will be explored. Common exercise programs, protocols, equipment and exercise strategies will also be examined. Patient motivational issues and the PTA role as a member of the healthcare team will also be incorporated. Prerequisite: Grade of 2.0 or better in previous PTA courses and concurrent enrollment in PTA 202, 212, 251, 254, 270, 272. (SFCC)

PTA 211 - PTA Procedures V: Rehab Applications Seminar (3 cr)

Instructional focus on physical therapy concepts for specific neurologic disabilities including, spinal cord injuries, stroke, head injuries, MS and other neurologic diseases. Normal and abnormal aging processes including Parkinson's, Alzheimer's, pulmonary and balance related disorders will be explored. Investigation of appropriate data collection methods and treatments for orthopedic patients including; upper and lower extremity dysfunctions; injuries to the spine; and lower extremity amputations; according to the Guide to Physical Therapist Practice. Issues pertaining to physical therapy management of the burn patient, functional assessments and testing for sensory-related deficits is discussed. Prerequisite: Grade of 2.0 or better in previous PTA courses and concurrent enrollment in PTA 201, 252, 255, 271. (SFCC)

PTA 212 - PTA Procedures VI: Pediatric Rehab Seminar (2 cr)

Instructional focus on pediatric physical therapy pertaining to normal and abnormal development, pediatric treatment philosophies and principles, pediatric assessment tools, gross motor skill development, behavior management and communication skills, and common pediatric disorders. Prerequisite: Grade of 2.0 or better in previous PTA courses and concurrent enrollment in PTA 202, 210, 251, 254, 270, 272. (SFCC)

PTA 251 - Clinical Experience II (1 cr)

Supervised clinical experience in varied physical therapy sites affiliated with the college. Students are expected to continue to develop skills in basic patient care, documentation, modalities and functional activities which have been previously evaluated in the laboratory setting. Prerequisite: Grade of 2.0 or better in all previous PTA courses and concurrent enrollment in PTA 202, 210, 212, 254. (SFCC)

PTA 252 - Clinical Experience III (3 cr)

Supervised clinical experience in varied physical therapy sites affiliated with the college. Students are expected to continue to develop skills in basic patient care, documentation, modalities and functional activities which have been previously evaluated in the laboratory setting. Prerequisite: Grade of 2.0 or better in previous PTA courses and concurrent enrollment in PTA 201, 211, 255. (SFCC)

PTA 253 - PTA Clinical Affiliation (12 cr)

This is a full-time internship of practical performance and appropriate application of physical therapy procedures and techniques under supervision in two selected clinic settings or a physical therapy department associated with the college. This affiliation is sufficient to insure the student has reached the minimum level of competency required for an entry-level physical therapist assistant in the application of physical therapy procedures and the understanding of clinic responsibilities and supervisory relationships prior to graduation. Grading option: Pass/Fail. Prerequisite: Grade of 2.0 or better in all PTA courses or permission of instructor. (SFCC)

PTA 254 - Clinical Seminar II (1 cr)

Clinical lecture and discussion seminar will focus on cultural competence and verbal and written communication with clients and the health care team. Prerequisite: Grade of 2.0 or better in previous PTA courses and concurrent enrollment in PTA 202, 210, 212, 251. (SFCC)

PTA 255 - Clinical Seminar III (1 cr)

Survey of issues surrounding patient care and teamwork. Topics will focus on patient interaction, adjustment to disability and grief, ethics, and physical therapist and physical therapist assistant roles and responsibilities. Prerequisite: Grade of 2.0 or better in previous PTA courses and concurrent enrollment in PTA 201, 211, 252. (SFCC)

PTA 270 - PTA Procedures IV: Therapeutic Exercise Lab (4 cr)

Laboratory course focus on development of therapeutic exercise programs for prevention and treatment of dysfunction of the spine, extremities, cardiovascular system, vestibular system, and somatosensory system. Implementation of treatment protocols and exercise techniques for specific diagnoses and conditions including orthopedic and neurological. Assessment techniques for posture, strength, flexibility, cardiovascular fitness will be employed. Documentation of treatment, response to treatment, assessment and planning. Prerequisite: Grade of 2.0 or better in previous PTA courses and concurrent enrollment in PTA 202, 210, 212, 251, 254, 272. (SFCC)

PTA 271 - PTA Procedures V: Rehab Applications Lab (4 cr)

Laboratory course focusing on the application of physical therapy skills for the treatment of specific neurologic disabilities including, spinal cord injuries, stroke, head injuries, MS and other neurologic diseases. Emphasize the development of treatment programs for orthopedic patients including upper and lower extremity dysfunctions, injuries to the spine and lower extremity amputations. Develop specific home programs, instruct in family training and select appropriate assistive devices and equipment for neurologic, geriatric and orthopedic patients. Apply physical therapy skills for the comprehensive treatment of the geriatric patient. Prerequisite: Grade of 2.0 or better in previous PTA courses and concurrent enrollment in PTA 201, 211, 252, 255. (SFCC)

PTA 272 - PTA Procedures VI: Pediatric Rehab Lab (2 cr)

Laboratory sessions focus on pediatric physical therapy with an emphasis on facilitation of the developmental sequence, common treatment approaches including handling, positioning, range of motion, strength and mobility. Prerequisite: Grade of 2.0 or better in previous PTA courses and concurrent enrollment in PTA 202, 210, 212, 251, 254, 270. (SFCC)

RADIOLOGY TECHNOLOGY

RAD 111 - Radiographic Positioning I (5 cr)

This course reviews specific anatomy as it appears on x-ray images such as chest and abdomen, upper and lower limbs, shoulder and pelvic girdles, and vertebral column systems. Students learn positional techniques used to take appropriate radiographs of each body part based on the physician's request. Correct alignment of radiographic equipment is emphasized. Exposure factors, patient apprehension, safety and comfort are addressed. (SCC)

RAD 113 - Patient Care and Ethics I (2 cr)

Students learn the necessary skills for meeting the physical and emotional needs of the patient. Patient preparation required to perform a radiographic examination is emphasized. (SCC)

RAD 114 - Radiographic Image Evaluation I (2 cr)

This course introduces essential technical factors used to evaluate radiographic quality including collimation, shielding, positioning, anatomical anomalies, density, contrast and film artifacts in the developed radiograph. Types of images being evaluated build as students' knowledge of positioning grows. (SCC)

RAD 115 - Fuch's Radiographic Principles I (3 cr)

This course introduces various forms of imaging. Students learn the basic principles of radiographic exposure, formulation of techniques and purpose, and the use of accessories such as grids, screens, collimators, filters and the x-ray tube. (SCC)

RAD 116 - Clinical Education I (8 cr)

Students learn radiographic positioning, darkroom and office procedures, patient management and critical analysis of radiographs in a clinical setting. Students develop psychomotor skills, cognitive domain and affective behavior in the science of radiographic technology. (SCC)

RAD 121 - Radiographic Positioning II (3 cr)

This course reviews the anatomy of each body part and system such as GI, Urinary, respiratory, bony thorax, and reproductive. Students learn positional techniques used to take appropriate radiographs of each body part or system based on the physician's request. Correct alignment of the image receptor and x-ray tube is emphasized. Exposure factors, patient apprehension, safety and comfort are covered. Prerequisite: RAD 111. (SCC)

RAD 123 - Patient Care and Ethics II (2 cr)

This course continues with the concepts introduced in RAD 113. Students learn the necessary skills for meeting the physical and emotional needs of the patient. Patient preparation required to perform a radiographic examination is emphasized. Potential situations that may lead to litigation are covered. Students also learn to protect themselves and the patient. Prerequisite: RAD 113. (SCC)

RAD 124 - Radiographic Image Evaluation II (2 cr)

Students build on the skills introduced in RAD 114 and develop radiographic assessment skills based on technical factors such as collimation, shielding, positioning, anatomical anomalies, density, contrast and image artifacts. Prerequisite: RAD 114. (SCC)

RAD 125 - Fuch's Radiographic Principles II (3 cr)

This course continues with the concepts introduced in RAD 115. Students learn about radiation protection and use of protective devices. Film and film holders are emphasized. Students learn about radiation processing chemicals, darkroom design and care are emphasized. Prerequisite: RAD 115. (SCC)

RAD 126 - Clinical Education II (9 cr)

Students learn radiographic positioning, darkroom and office procedures, patient management and critical analysis of radiographs in a clinical setting. Students continue to develop psychomotor skills, cognitive domain and affective behavior in the science of radiographic technology. Prerequisite: RAD 116. (SCC)

RAD 127 - Mobile/Surgical Procedures (1 cr)

This course reviews common mobile/surgical procedures using positional techniques to take appropriate radiographs of each body part based on the physician's request. Students review correct alignment of radiographic equipment, exposure factors, patient apprehension, safety and comfort. (SCC)

RAD 131 - Radiographic Positioning III (2 cr)

Students review the anatomy of the skull and facial bones and positional techniques utilized to take appropriate radiographs based on the physician's request. Correct alignment of image, anatomy and x-ray tube are emphasized. Students prepare for comprehensive tests. Prerequisite: RAD 121. (SCC)

RAD 132 - Radiation Physics (2 cr)

This course reviews principles and concepts of scientific measurement, molecular theory, matter and energy, and electricity, magnetism and circuitry. Particular emphasis is placed on imaging modalities, x-ray circuitry, and the principles and production of x-rays. (SCC)

RAD 134 - Radiographic Image Evaluation III (2 cr)

Students continue to develop radiographic assessment skills based on technical factors such as collimation, shielding, positioning, anatomical anomalies, density, contrast and image artfacts. Prerequisite: RAD 124. (SCC)

RAD 136 - Clinical Education III (9 cr)

This course continues with the development of clinical skills introduced in RAD 126. Prerequisite: RAD 126. (SCC)

RAD 141 - Radiographic Positioning IV (2 cr)

This course is a review of specific anatomy as it appears on x-ray images such as nervous, biliary arthrography and tomography systems. Students learn positional techniques used to take appropriate radiographs of each body part based on the physician's request. Correct alignment of radiographic equipment is emphasized. Exposure factors, patient apprehension, safety and comfort are addressed. Prerequisite: RAD 131. (SCC)

RAD 144 - Radiographic Image Evaluation IV (1 cr)

Students continue to develop radiographic assessment skills based on technical factors such as collimation, shielding, positioning, anatomical anomalies, density, contrast and image artifacts. Prerequisite: RAD 134. (SCC)

RAD 145 - Fuch's Radiographic Principles III (2 cr)

This course continues with the concepts introduced in RAD 125. Students learn about computerized and digital imaging, while radiation protection is emphasized. Prerequisite: RAD 125. (SCC)

RAD 146 - Clinical Education IV (7 cr)

This course continues with the development of clinical skills introduced in RAD 136. Prerequisite: RAD 136. (SCC)

RAD 156 - Clinical Education X (1-7 cr)

Students learn radiographic clinical cat scan procedures. Prerequisite: The student must be enrolled in Yakima Valley Community College's online CT didactic courses. Students must be a licensed technologist within the state of Washington and the ARRT. (SCC)

RAD 157 - Clinical Education XI (1-7 cr)

Students learn radiographic clinical cat scan procedures. Prerequisite: The student must be enrolled in Yakima Valley Community College's online CT didactic courses. Students must be a licensed technologist within the state of Washington and the ARRT. (SCC)

RAD 211 - Radiographic Positioning V (1 cr)

This course is a review of specific anatomy as it appears on x-ray images such as chest and abdomen, upper and lower limbs, shoulder and pelvic girdles, bony thorax, vertebral column and gastrointestinal systems. Students learn positional techniques used to take appropriate radiographs of each body part based on the physician's request. Correct alignment of radiographic equipment is emphasized. Exposure factors, patient apprehension, safety and comfort are addressed. Prerequisite: RAD 141. (SCC)

RAD 212 - Quality Management (1 cr)

This course introduces quality assurance programs and techniques used in film quality evaluation, processing and x-ray instrumentation. Students study the theory and practical application of quality assurance. (SCC)

RAD 213 - Various Modalities (2 cr)

This course introduces the elements of ultrasound technology principles, nuclear medicine, mammography, radiation therapy, magnetic resonance imaging (MRI) and other special procedures. Principles of interventional and angiographic procedures, angiographic equipment and visualized anatomy are addressed. History of development, application and image presentation also are presented. The scope of medical imaging techniques and their correlation is emphasized. (SCC)

RAD 214 - Radiographic Image Evaluation V (2 cr)

This course introduces essential technical factors used to evaluate radiographic quality including collimation, shielding, positioning, anatomical anomalies and density, contrast, and film artifacts in the developed radiograph. Types of images being evaluated build as the students' knowledge of positioning grows. Prerequisite: RAD 134. (SCC)

RAD 215 - Radiation Biology and Protection (2 cr)

This course introduces the effects of ionizing radiation on biologic tissue. An overview of pertinent pathological diseases is presented, and the concepts of radiation protection is discussed and emphasized. (SCC)

RAD 216 - Clinical Education V (9 cr)

This course continues with the development of clinical skills introduced in RAD 146. Prerequisite: RAD 146. (SCC)

RAD 223 - Radiation Pathology (2 cr)

A radiologist discusses disease processes, anomalies and technical factors related to properly completed radiographs. (SCC)

RAD 224 - Radiographic Image Evaluation VI (2 cr)

This course introduces essential technical factors used to evaluate radiographic quality including collimation, shielding, positioning, anatomical anomalies and density, contrast, and film artifacts in the developed radiograph. Types of images being evaluated build as the students' knowledge of positioning grows. Prerequisite: RAD 214. (SCC)

RAD 225 - Skull and GI Review (1 cr)

This course reviews the positional techniques utilized when taking radiographs of the skull and GI system based on the physician's request. (SCC)

RAD 226 - Clinical Education VI (9 cr)

This course continues with the development of clinical skills introduced in RAD 216. Prerequisite: RAD 216. (SCC)

RAD 235 - Pharmacology/Venipuncture (1 cr)

Students learn safe administration of pharmaceuticals including clinical experience in needle placement. Needle insertion and contrast media injection, and principles of pharmacological agents used in a radiology department are emphasized. (SCC)

RAD 236 - Clinical Education VII (9 cr)

This course continues with the development of clinical skills introduced in RAD 226. Prerequisite: RAD 226. (SCC)

RAD 237 - Review and Registration Preparation (3 cr)

Students review all the material covered in previous radiology technology courses in preparation of the ARRT examination which may be taken on or after the day of graduation from the program. (SCC)

RAD 238 - Cat Scan (1 cr)

Course content is designed to provide entry-level radiography students with principles related to computed tomography (CT) imaging. This course includes instruction on the history, various components, operations and processes applied in CT. The students will also be instructed on the appropriate radiation protection that should be utilized. (SCC)

RESPIRATORY CARE

RT 101 - Respiratory Care Fundamentals I (3 cr)

This is the first in a series of three-quarter courses introducing respiratory care fundamentals. Students learn the respiratory care profession, fundamentals of infection control, patient safety and record keeping, patient assessment, fundamentals of oxygen therapy, humidity and aerosol therapy, and cardiopulmonary resuscitation. Prerequisite: Admission in program. (SCC)

RT 102 - Respiratory Care Fundamentals I Technical Skills Lab (1 cr)

This is the first in a series of three-quarter courses introducing respiratory care technical skills preparing the student for entry into the clinical setting. Prerequisite: Admission in program. (SCC)

RT 103 - Respiratory Care Anatomy and Physiology (2 cr) This is an introductory course on cardiopulmonary anatomy and physiology. This course includes the structure and function of the cardiopulmonary system and is fundamental to the application of the art and science of respiratory care. Prerequisite: Admission in program. (SCC)

RT 104 - Respiratory Care Fundamentals II (2 cr)

This is the second in a series of three-quarter courses introducing respiratory care fundamentals. Interpretation of clinical laboratory data, thoracic imaging, oxygen analyzers, pulse oximetry, airway maintenance and secretion management, spontaneous hyperinflation techniques, and bronchial hygiene are emphasized. Prerequisite: Completion of previous quarter. (SCC)

RT 105 - Respiratory Care Fundamentals II Technical Skills Lab (2 cr)

This is the second in a series of three-quarter courses introducing respiratory care fundamentals technical skills. Laboratory/clinical skills will include interpretation of clinical laboratory data, thoracic imaging, oxygen analyzers, pulse oximetry, airway maintenance and secretion management, spontaneous hyperinflation techniques, and bronchial hygiene are emphasized. Prerequisite: Completion of previous quarter. (SCC)

RT 106 - Clinical Interpretation of Blood Gases (2 cr)

This course describes the interpretation of arterial blood gases including respiratory and metabolic acidosis and alkalosis. Advanced interpretation techniques are emphasized. Prerequisite: Completion of previous quarter. (SCC)

RT 107 - Respiratory Care Pharmacology (4 cr)

This course covers the principles of pharmacology as applied to respiratory care. Emphasis is given to bronchodilators, mucus controlling agents, surfactant agents, anti-infective agents, neuromuscular blocking agents, cardiac drugs and ACLS drugs. Prerequisite: Admission in program. (SCC)

RT 108 - Basic Life Support Instructor Course (2 cr)

This course develops the instructional and technical skills required by the American heart Association to become a Basic Life Support Instructor and to become a member of the campus CPR Club. Prerequisite: Completion of previous quarter. (SCC)

RT 109 - Computer Applications in Respiratory Care (1 cr)

This course introduces the unique computer applications utilized in the discipline of respiratory care. Prerequisite: Completion of previous quarter. (SCC)

RT 110 - Physical Science for Respiratory Care (3 cr)

This introductory course applies physical sciences to cardiopulmonary physiology, respiratory care equipment and operation, and application of physical laws to mechanical and physiological measurements. Prerequisite: Admission in program. (SCC)

RT 114 - Respiratory Care Clinical I (1 cr)

This course is the first in a sequence of six courses developing the technical skills required for clinical practice. Prerequisite: Completion of previous quarter. (SCC)

RT 115 - Fundamentals of Spirometry and Blood Gas Analysis (2 cr)

This course is the first in a sequence of three courses in pulmonary diagnostics. Spirometry and the operation of blood gas instrumentation is emphasized. Prerequisite: Completion of previous quarter. (SCC)

RT 116 - Fundamentals of Spirometry and ABG Technical Skills Lab (1 cr)

This course is the first in a sequence of three courses developing the technical skills required for entry into the pulmonary diagnostic clinical sites. Prerequisite: Completion of previous quarter. (SCC)

RT 117 - Respiratory Care Fundamentals III (4 cr)

This course emphasizes pressure ventilation, bi-level pressure ventilation and mechanical ventilation. Prerequisite: Completion of previous quarter. (SCC)

RT 118 - Respiratory Care Fundamentals III Technical Skills Lab (2 cr)

This course teaches the technical skills required for caring for patients on positive pressure mechanical ventilation. Prerequisite: Completion of previous quarter. (SCC)

RT 119 - Cardiopulmonary Pathophysiology (3 cr)

This course describes the pathophysiology of pulmonary diseases, their diagnosis and treatment. Prerequisite: Completion of previous quarter. (SCC)

RT 121 - Respiratory Care Clinical II (2 cr)

This course emphasizes the technical skills required to care for patients with pulmonary disorders in non-critical care areas. Prerequisite: Completion of previous quarter. (SCC)

RT 122 - Respiratory Care Clinical III (8 cr)

This course emphasizes the technical skills required to care for patients with pulmonary disorders in non-critical care areas, in the emergency room, and adult intensive care settings. Prerequisite: Completion of previous quarter. (SCC)

RT 201 - Critical Care I (4 cr)

This introduces all aspects of the adult critically ill patient in need of life support systems, including hemodynamic monitoring, cardiopulmonary assessment and ventilator management. Prerequisite: Completion of previous quarter. (SCC)

RT 202 - Critical Care I Technical Skills Lab (2 cr)

This introduces the technical skills required of the adult critically ill patient in need of life support systems, including hemodynamic monitoring, cardiopulmonary assessment and ventilator management. Prerequisite: Completion of previous quarter. (SCC)

RT 203 - Advanced Cardiac Life Support Course (2 cr)

This course develops the cognitive skills required for advanced cardiac life support required by the American Heart Association. Combined with another lab portion and mega code allows the student to hold an ACLS card. Prerequisite: Completion of previous quarter. (SCC)

RT 204 - Advanced Cardiac Life Support Technical Skills Lab (1 cr)

This course develops the technical skills required by the American Heart Association, when combined with the lecture course to hold an ACLS card. Prerequisite: Completion of previous quarter. (SCC)

RT 205 - Pulmonary Volumes, Diffusion and Instrumentation (2 cr)

This course describes the indirect techniques used to measure lung volumes, diffusion and distribution of gases in the lungs. Prerequisite: Completion of previous quarter. (SCC)

RT 206 - PVDI Technical Skills Lab (1 cr)

This course applies the indirect techniques used to measure lung volumes, diffusion and distribution of gases in the lungs. Prerequisite: Completion of previous quarter. (SCC)

RT 207 - Respiratory Care Clinical IV (5 cr)

This course continues with the concepts presented in RT 201 with the additional of caring for the adult patient in the intensive care settings. Students observe and assist in patient assessment in the management of adult patients on ventilator support. Prerequisite: Completion of previous quarter. (SCC)

RT 208 - Pulmonary Diagnostics Clinical (1 cr)

This course is the first clinical course in of two emphasizing the performance of pulmonary function testing in the acute care facility and the private practice physician's office setting. Prerequisite: Completion of previous guarter. (SCC)

RT 213 - Electrophysiology (4 cr)

Students are introduced to the field of cardiovascular technology, basic cardiac anatomy; physiology and electrophysiology with emphasis on the performance and interpretation of the electrocardiogram. Laboratory experiences to support these concepts also are included. Prerequisite: Enrollment in respiratory care program or permission of instructor. (SCC)

RT 216 - Critical Care II (3 cr)

This course continues with the concepts in RT 201 emphasizing advanced mechanical ventilator applications and nonconventional approaches to patient management in critical care setting. Prerequisite: Completion of previous quarter. (SCC)

RT 217 - Critical Care II Technical Skills Lab (2 cr)

This course develops the technical skills required for acute care practice emphasizing advanced mechanical ventilator applications and nonconventional approaches to patient management in critical care setting. Prerequisite: Completion of previous quarter. (SCC)

RT 218 - Neonatal/Pediatric Respiratory Care (2 cr)

This course develops the technical skills required for acute care practice emphasizing advanced mechanical ventilator applications and nonconventional approaches to patient management in critical care setting. Prerequisite: Completion of previous quarter. (SCC)

RT 219 - Perinatal/Pediatric Technical Skills Lab (1 cr)

This course continues with the concepts presented in RT 218 with the emphasis on development of the technical skills required in the acute care setting. Prerequisite: Completion of previous quarter. (SCC)

RT 225 - Advanced Pulmonary Diagnostics (3 cr)

This course emphasizes advanced pulmonary function techniques including airway resistance measurement, bronchial provocation, cardiopulmonary exercise testing, indirect calorimetry, bronchoscopy assisting and sleep diagnostics. Prerequisite: Completion of previous quarter. (SCC)

RT 226 - Advanced Pulmonary Diagnostics Technical Skills Lab (1 cr)

In this course the student will demonstrate pulmonary function techniques including airway resistance measurement, bronchial provocation, cardiopulmonary exercise testing, indirect calorimetry, bronchoscopy assisting and sleep diagnostics. Prerequisite: Completion of previous quarter. (SCC)

RT 227 - Respiratory Care Clinical V (4 cr)

This course continues with the concepts presented in RT 207 with the addition of pediatric and neonatal intensive care settings. The students will observe and assist in patient assessment and ventilator support of these patients as well as adult patients in the intensive care setting. Prerequisite: Completion of previous quarter. (SCC)

RT 228 - Advanced Pulmonary Diagnostics Clinical (1 cr)

In this course the student will demonstrate pulmonary function techniques including airway resistance measurement, bronchial provocation, cardiopulmonary exercise testing, indirect calorimetry, bronchoscopy assisting and sleep diagnostics in the acute care setting. Prerequisite: Completion of previous quarter. (SCC)

RT 229 - Current Trends in Respiratory Care (4 cr)

This course explores current concepts in respiratory care and health care delivery with student presentations and discussions of cardiopulmonary patient case studies involving diagnostic and therapeutic modalities. In addition, concepts of caring for patients in the sub-acute and rehabilitation environment will be explored. Prerequisite: Completion of previous quarter. (SCC)

RT 235 - Patient Management and Problem Solving (3 cr)

This course introduces the application of respiratory care practices and procedures leading to patient problem solving including computer applications with clinical simulations based on entry and advanced national board exams. Prerequisite: Completion of previous quarter. (SCC)

RT 236 - Patient Management and Problem Solving Lab (1 cr)

This course introduces the application of respiratory care practices and procedures leading to patient problem solving including computer applications with clinical simulations based on entry and advanced national board exams. Prerequisite: Completion of previous quarter. (SCC)

RT 237 - Management in Health Care (2 cr)

This course introduces organizational structure, job description, evaluation, employee benefits reimbursement, budgeting, scheduling and other management skills required for employment in the health care industry. Prerequisite: Completion of previous quarter. (SCC)

RT 238 - Respiratory Care Clinical VI (5 cr)

Students transition from student practice to that of a respiratory care practitioner. Added clinical practice in the sub-acute, home care and optional rural environments is offered. Prerequisite: Completion of previous guarter. (SCC)

SALISH

SAL 101 - Salish I (5 cr)

Interior Salish Language and Culture focuses on Nselxcin language traditionally spoken by the Aboriginal people of North Central and Eastern Washington and Southern British Columbia. Students learn to speak and understand basic Salish and are introduced to the International Phonetic Alphabet. The course consists of a variety of communicative lessons, each with a core vocabulary, phrases and usage information. Course materials are supplemented with songs, traditional stories and other cultural teachings. (SFCC)

SAL 102 - Salish II (5 cr)

A continuation of Salish 101, this course, focuses on Nselxcin language traditionally spoken by the Aboriginal people of North Central and Eastern Washington and Southern British Columbia. Students learn to speak and understand basic Salish and are introduced to the International Phonetic Alphabet. The course consists of communicative lessons, each with a core vocabulary, phrases and usage information. Course materials are supplemented with songs, traditional stories and other cultural teachings. Prerequisite: SAL 101. (SFCC)

SAL 103 - Salish III (5 cr)

Students use the foundation of language acquired in Salish 101 and 102 in order to study and memorize traditional plateau stories written and recorded in the Nselxcin language. This Interior Salish Language and Culture course focuses on Nselxcin language traditionally spoken by the Aboriginal people of North Central and Eastern Washington and Southern British Columbia. In Salish 103 Students increase their proficiency in reading and writing using the International Phonetic Alphabet. The course consists of a variety of literature lessons, each with a core vocabulary and narrative phrases, as well as usage and grammatical information. Course materials are supplemented with songs and other cultural teachings. Prerequisite: SAL 101, 102. (SFCC)

SOCIOLOGY

SOC& 101 - Intro to Sociology (5 cr)

Basic concepts and theories of sociology with an emphasis on the group aspects of human behavior. (SCC, SFCC)

SOC& 201 - Social Problems (5 cr)

Social problems have existed in societies throughout time. We live in an increasingly connected world where the social problems experienced in one nation are influenced by events in other parts of the world. This class explores social problems in the U.S. as well as examines social problems on a global scale. Topics covered include: Globalization, world economy and world poverty, human rights, population growth and environmental destruction, race and gender, crime, war and terrorism. (SCC, SFCC)

SOC 204 - Research Methods in Social Science (5 cr)

The study of the basic data, theory, methodology and attitudes of the social scientist independent of any special area. Prerequisite: PSYC& 100 or SOC& 101. (SCC, SFCC)

SOC 211 - Marriage and the Family (5 cr)

A sociological analysis of the institution of the family including historical and cross-cultural variations of the family structure and mate selection processes; the modern family institution with regard to the sexual, reproductive, economic and socialization function; newly emerging lifestyles, alternate living patterns, family disorganization, and changing definitions of family. (SCC, SFCC)

SOC 221 - Race and Ethnic Relations (5 cr)

We are a society unprecedented in its diversity of color, class, and cultural origin that reflects the fundamental ethnic and racial composition as well as stratification of the United States population. This class offers a comprehensive examination of race relations that commences with an appreciation of diversity in the United States and seeks to understand these relations through a historically grounded comparative analysis of several dominant/minority global patterns. (SCC, SFCC)

SOC 230 - Sociology of Gender (5 cr)

Sociology of Gender examines the changing views of gender in modern society and explores the available research on the social and institutional pressures that shape women and men and their roles in society. This course directly confronts the myths, misconceptions and stereotypes surrounding nearly every aspect of gender, including work, education, sexuality, politics, economics, marriage, family, crime and spirituality. This course also includes a cross-cultural perspective on gender. (SFCC)

SOC 261 - Crime and Justice (5 cr)

Explores the phenomenon of crime; considers its causes, theories of prevention and the institutional means employed to combat it, including police, courts and corrections. Crime is interpreted as an American paradox; it is feared and deplored, yet persists and grows. The course examines that paradox by focusing on cultural contradiction in American society regarding crime, justice and punishment. (SCC, SFCC)

DIAGNOSTIC MEDICAL SONOGRAPHY

SONO 111 - Diagnostic Ultrasound I (2 cr)

This course is an introduction to the field of diagnostic sonography and the role of the sonographer. The importance of professionalism, ethical and legal issues including AIDS and written communications is stressed. Various types of sonographic procedures will be discussed with their applications to abdominal scanning. Various discussion groups and tours are an integral component of this course. Prerequisite: Admission to the Diagnostic Medical Sonography program and concurrent enrollment in SONO 121, 125. (SCC)

SONO 112 - Vascular Fundamentals (4 cr)

This course is an introduction to basic vascular anatomy of the lower and upper extremities, abdomen, visceral organs and cerebral vasculature with emphasis on the physiology of these systems. An introduction to the concepts essential for the performance and interpretation of vascular exams is also included. Laboratory experience is required. (SCC)

SONO 121 - Human Cross-Section Anatomy (4 cr)

Transverse and sagittal cross-sectional anatomy of the human body is compared to the tomographic images obtained by ultrasound, magnetic resonance (MR) and computed tonography (CT). Emphasis is placed on gross human anatomy as sliced into tomographic planes and the tissue characteristics that create image variations. Laboratory experience is provided. Prerequisite: Admission to Diagnostic Medical Sonography Program and concurrent enrollment in SONO 111, 125. (SCC)

SONO 122 - Vascular Procedures I (4 cr)

This course introduces students to the basic vascular procedures used to assess the lower and upper extremities, abdomen, visceral organs and cerebral vasculature with emphasis on the ultrasonic examinations of these systems. Instrumentation commonly used in the vascular laboratory is also presented. Laboratory experiences are required. Prerequisite: Admission to the program and concurrent enrollment in SONO 135. (SCC)

SONO 123 - Survey of Cardiac Sonography (5 cr)

A survey of basic fetal and adult cardiac sonography with an emphasis on normal cardiac development, normal anatomy, congenital defects, and acquired heart disease states. Standard sonographic imaging techniques of fetal and adult cardiac structures, instrumentation and examination protocols will be reviewed. Laboratory experience is required. Prerequisite: Admission to Diagnostic Medical Sonography program and concurrent enrollment in SONO 141. (SCC)

SONO 125 - Ultrasound Physics and Instrumentation I (5 cr)

This course emphasizes ultrasound physics, the physics of waves, sound transmission, attenuation, pulse wave principles, transducer and ultrasound systems operations. Prerequisite: Admission to Diagnostic Medical Sonography Program and concurrent enrollment in SONO 111, 121. (SCC)

SONO 131 - Diagnostic Ultrasound II (5 cr)

This course is an investigation of the application for ultrasound in the abdomen, small parts and intraoperative. The pathophysiology of the abdomen, small parts and intraoperative applications is discussed. Emphasis is on the technique and image assessment. Both normal and abnormal anatomy is identified. Laboratory experience is provided. Prerequisite: Concurrent enrollment in SONO 135. (SCC)

SONO 132 - Abdominal Pathophysiology (4 cr)

Students study the process of disease development in the various organs of peritoneal and retroperitoneal cavities. Infectious, inflammatory, and neoplastic conditions of each organ/gland are explored. (SCC)

SONO 135 - Ultrasound Physics and Instrumentation II (5 cr)

This is a continuation of the concepts introduced in SONO 125. Ultrasound physics with emphasis on the Doppler techniques, artifacts, and utilizing instrumentation to investigate the principles of Doppler technique and artifacts. Prerequisite: Admission to Diagnostic Medical Sonography Program and concurrent enrollment in SONO 131. (SCC)

SONO 141 - Diagnostic Ultrasound III (5 cr)

Ultrasonic procedures and techniques utilized within the OB/GYN specialty are discussed. Scanning techniques, pathology and ethical issues are also included. Laboratory experience is provided using ultrasound simulation to develop normal and abnormal anatomy identification. Prerequisite: Admission to Diagnostic Medical Sonography program and concurrent enrollment in SONO 131. (SCC)

SONO 142 - Diagnostic Ultrasound IV (4 cr)

Applications of ultrasound in the assessment of normal structures and pathology found within the areas of neck, thyroid, prostate, scrotum, breast and musculoskeletal structures. Emphasis is placed on the sonographic identification of anatomy and pathophysiology using sonographic techniques. Laboratory experience is provided and required. (SCC)

SONO 143 - Sonography Clinical I (9 cr)

Students are introduced to the clinical environment by spending four weeks in the clinical setting under the direction of a staff sonographer. Weekly clinical seminars are conducted with faculty. A clinical consciousness is developed with emphasis on professionalism, clinical rapport, medical ethics and patient care. Prerequisite: Admission to Diagnostic Medical Sonography program and concurrent enrollment in SONO 142. (SCC)

SONO 144 - OB/GYN Pathophysiology (4 cr)

Students study the disease process in the female reproductive system, abnormal maternal conditional associated with pregnancy and abnormal fetal development. Infectious, inflammatory, and neoplastic conditions of female pelvis, maternal syndromes, and abnormal fetal development are explored. (SCC)

SONO 251 - Advanced Sonography (4 cr)

Advanced applications of ultrasound in the assessment of pathophysiology found within the abdominal scan, small parts and intraoperative scans, and OB/GYN scans are discussed. Emphasis is placed on the identification of anatomy and physiology as identified in the abnormal situation using ultrasound. (SCC)

SONO 253 - Sonography Clinical II (9 cr)

This course provides hands-on experience in the hospital and clinical environment. Emphasis is placed on the development of clinical techniques in the use of current ultrasound instrumentation in the evaluation of an acquired disease. Students then apply the principles of medical legal ethics and professionalism to the patient, physicians and other members of the health team. Clinical case reports are required. Prerequisite: Admission to Diagnostic Medical Sonography program concurrent enrollment in SONO 251. (SCC)

SONO 263 - Sonography Clinical III (13 cr)

This course provides hand-on experience in the hospital and clinical environment. Emphasis is placed on the development of clinical techniques in the use of current ultrasound instrumentation in the evaluation of an acquired disease. Students then apply the principles of medical legal ethics and professionalism to the patient, physicians and other members of the health team. Clinical case reports are required. Prerequisite: Admission to Diagnostic Medical Sonography program. (SCC)

SONO 273 - Sonography Clinical IV (13 cr)

This course is a continuation of SONO 263. This course is a full-time clinical internship and is completed in an affiliated local or out-of-town hospital, clinic or physician's office. Emphasis of this course is on the clinical skills necessary for the performance of and evaluation of the various sonography procedures. Written reports, review of current literature and attendance at conferences is required. Prerequisite: Admission to Diagnostic Medical Sonography program. (SCC)

SPANISH

SPAN& 121 - Spanish I (5 cr)

These courses are an introduction to the Spanish language, traditions and culture using the most modern methods of language learning with emphasis on oral communication. Students complete lab assignments outside of scheduled class times. (SCC, SFCC)

SPAN& 122 - Spanish II (5 cr)

These courses are an introduction to the Spanish language, traditions and culture using the most modern methods of language learning with emphasis on oral communication. Students complete lab assignments outside of scheduled class times. Prerequisite: SPAN& 121 or permission of instructor. (SCC, SFCC)

SPAN& 123 - Spanish III (5 cr)

These courses are an introduction to the Spanish language, traditions and culture using the most modern methods of language learning with emphasis on oral communication. Students complete lab assignments outside of scheduled class times. Prerequisite: SPAN& 122 or permission of instructor. (SCC, SFCC)

SPAN& 221 - Spanish IV (5 cr)

Intensive review plus emphasis on Spanish culture and the idiomatic usage of the language, both oral and written. Prerequisite: Two years of high school Spanish or one complete year of college Spanish or permission of instructor. (SCC, SFCC)

SPAN& 222 - Spanish V (5 cr)

This course places emphasis on the composition and discussion of contemporary and cultural issues, with increasingly difficult idioms and structural concepts. Prerequisite: SPAN& 221 or permission of instructor. (SCC, SFCC)

SPAN& 223 - Spanish VI (5 cr)

This course places continued emphasis on the composition and discussion of contemporary issues as well as Hispanic and Latin American culture, with increasingly difficult vocabulary and structural concepts. Prerequisite: SPAN& 221, 222 or permission of instructor. (SCC, SFCC)

SPAN 241 - Spanish Conversation and Culture (2 cr)

A course in which students will have the opportunity to increase their vocabulary, to improve their speaking ability, and to gain more confidence in using previously studied grammatical concepts. Conducted in Spanish. Prerequisite: SPAN 121 or concurrent enrollment in SPAN 121 or 122 or 123 or permission of instructor. (SFCC, SCC)

SPAN 242 - Spanish Conversation and Culture (2 cr)

Students continue to develop their fluency in Spanish by participating in small group discussions that focus on a wide variety of topics in Hispanic culture. Conducted in Spanish. May be taken without SPAN 241 as a prerequisite. Prerequisite: Two years of college-level Spanish (SPAN& 223) or equivalent. (SFCC)

SPAN 267 - Cooperative Education Work Experience (1-18 cr)

For course description, see Cooperative Education. (SFCC)

SURGICAL TECHNOLOGY

SURG 100 - Introduction to Surgical Technology (2 cr)

This course introduces the roles of the surgical technologist emphasizing the surgical environmental and procedural safety concerns. (SCC)

SURG 101 - Surgical Procedures (5 cr)

This course is an introduction to the knowledge and techniques essential to the surgical technologist in preparation of the patient for major or minor surgical procedures. Expertise in preparation/utilization of equipment and supplies, sterilization/disinfection, aseptic techniques, robotics, and duties of the surgical technologist and assistant circulator are emphasized. Health care provider CPR is included. Prerequisite: HED 125, SURG 100, 120. (SCC)

SURG 104 - Central Service Clinical (1 cr)

This clinical rotation allows students the opportunity to develop performance competencies appropriate to central service units. (SCC)

SURG 105 - Blood-borne Pathogens and HIV/AIDS (1 cr)

Students are introduced to current information on blood-borne pathogens with an emphasis on HIV/AIDS education utilizing the 7-hour Washington State curriculum. This course is offered online only. (SCC)

SURG 107 - Surgical Environment (3 cr)

Students learn the skills required for the physical environment (working condition) of the operating room. Understanding the basic patient and staff safety issues are emphasized. Prerequisite: Successful completion of first quarter coursework and concurrent enrollment in HED 125, SURG 100. (SCC)

SURG 111 - Technical Skills I (4 cr)

This course provides practical applications for performing the duties of a circulating assistant and scrub technician in a simulated operating room. Duties include patient preparation, equipment and supplies preparation, instrumentation, sterilization/disinfection practices, and aseptic techniques. Prerequisite: Concurrent enrollment in SURG 101. (SCC)

SURG 120 - Disease Transmission and Control (3 cr)

This course introduces students to basic microbiology theory including discussion of pathogenic microorganisms. Methods of transmission, identification of microorganisms in the operating room, and growth control and practices in the operating room are emphasized. (SCC)

SURG 202 - Surgical Procedures (6 cr)

This course continues with the concepts introduced in SURG 101 with emphasis on advanced preparation and utilization of electrical equipment and lasers. Supplies necessary for specific specialties and various surgical procedures are included. Prerequisite: SURG 101 and concurrent enrollment in SURG 212, 254. (SCC)

SURG 203 - Surgical Procedures (4 cr)

This course continues with the concepts introduced in SURG 202 with emphasis on advanced preparation and utilization of equipment. Supplies necessary for specific advanced specialties and various surgical procedures are included. An introduction of physics is presented. Prerequisite: SURG 202, 212 and concurrent enrollment in SURG 206, 255. (SCC)

SURG 206 - Perioperative Care of the Patient (4 cr)

Students learn the skills required for preoperative, intraoperative and postoperative phases of the surgical patient. Understanding the patient's pharmacologic, ethical, anesthetic, wound healing and other related nursing needs are emphasized. Prerequisite: Successful completion of fourth-quarter coursework and concurrent enrollment in SURG 203, 255. (SCC)

SURG 212 - Technical Skills II (4 cr)

This course continues with the applications introduced in SURG 111. Duties include patient preparation, equipment and supplies preparation, sterilizing practices, and disinfection and aseptic techniques. Prerequisite: Successful completion of SURG 101, 111 and concurrent enrollment in SURG 202. (SCC)

SURG 250 - Surgical Seminar (3 cr)

This weekly conference is based on discussion from the students' operating room experience in the form of case studies. Students also review for preparation for the national certification test. Prerequisite: SURG 255. (SCC)

SURG 254 - Operating Room Practicum (2 cr)

This course provides surgical technology students with actual experience in the operating room. In this pre-arranged practicum, students learn teamwork, flexibility, organization, and economy in time, motion and materials. Preparation of all supplies and equipment used for surgical procedures in the operation room is included. Prerequisite: SURG 101, 104, 111 and concurrent enrollment in SURG 202, 212. (SCC)

SURG 255 - Operating Room Practicum (5 cr)

This course provides surgical technology students with actual experience in the operating room. In this pre-arranged practicum, students learn teamwork, flexibility, organization, and economy in time, motion and materials. Preparation of all supplies and equipment used for surgical procedures in the operation room is included. First and second scrubbing procedures under the supervision of operating room personnel or instructor are emphasized. Prerequisite: SURG 202, 212, 254 and concurrent enrollment in SURG 203, 206. (SCC)

SURG 256 - Operating Room Practicum (10 cr)

Students gain clinical experience in affiliated hospital operating rooms assisting the circulator, and shadowing anesthesia and maternity technicians. Prerequisite: SURG 203, 206, 255 and concurrent enrollment in SURG 250. (SCC)

VASCULAR TECHNOLOGY

VASC 100 - Introduction to Echo and Vascular (2 cr)

Introduction to the field of Echocardiography and Vascular Technology with emphasis on the role of these career pathways. Stresses the importance of professionalism, ethical behavior, and communications. Career opportunities, Credentialing, Program and Health Science student handbooks will be reviewed. Prerequisite: Admission to the program and concurrent enrollment in VASC 112, 125. (SCC)

VASC 112 - Vascular Fundamentals (4 cr)

This course is an introduction to basic vascular anatomy of the lower and upper extremities, abdomen, visceral organs and cerebral vasculature with emphasis on the physiology of these systems. An introduction to the concepts essential for the performance and interpretation of vascular exams is also included. Laboratory experience is required. (SCC)

VASC 116 - Acute Coronary Syndrome (1 cr)

A study of the nations number one killer in its acute phase. Pathophysiology of atherosclerosis. The stable versus the unstable patient. Vulnerable plaque types. STEMI versus NSTEMI patient presentations. The national door to balloon initiative. 12 lead EKG recognition of the signs of ischemia/infarct patterns. Prerequisite: Enrollment in vascular technology program or permission of instructor. (SCC)

VASC 117 - Cardiovascular Pharm 1 (1 cr)

Introduction to cardiovascular pharmacology. A review of control of heart rate, blood pressure, and cardiac output and the common drug groups employed to manipulate these parameters. Prerequisite: Enrollment in vascular technology program or permission of instructor. (SCC)

VASC 122 - Vascular Procedures I (4 cr)

This course introduces students to the basic vascular procedures used to assess the lower and upper extremities, abdomen, visceral organs and cerebral vasculature with emphasis on the ultrasonic examinations of these systems. Instrumentation commonly used in the vascular laboratory is also presented. Laboratory experience is required. Prerequisite: Admission to the program and concurrent enrollment in VASC 135. (SCC)

VASC 123 - Hemodynamics (2 cr)

Introduction to various forms of invasive monitoring. Emphasis is placed on the basics of hemodynamic monitoring and interpretation. Normal and pathologic examples are introduced. (SCC)

VASC 124 - Cardiovascular Pharm 2 (1 cr)

Continuation of VASC 117 Intro to CV Pharm. Advanced Cardiac Life Support drugs are introduced. Pharmacy math is introduced. Pharmacy law is studied. Principles of IV therapy are introduced. Prerequisite: Enrollment in vascular technology program or permission of instructor. (SCC)

VASC 125 - Ultrasound Physics and Instrumentation I (5 cr)

This course emphasizes ultrasound physics, the physics of waves, sound transmission, attenuation, pulse wave principles, transducer and ultrasound systems operations. Prerequisite: Admission to the program and concurrent enrollment in VASC 100, 112. (SCC)

VASC 126 - Technical Skills/Reading Hemodynamics (1 cr)

Introduction to various forms of invasive monitoring. Emphasis is placed on the basics of hemodynamic monitoring and interpretation. Normal and pathologic examples are introduced. Supports concepts taught in ICT 125. Prerequisite: Permission of instructor. (SCC)

VASC 127 - Technical Skills/Pharmacology (1 cr)

Introduction to various forms of invasive monitoring. Emphasis is placed on the basics of hemodynamic monitoring and interpretation. Normal and pathologic examples are introduced. Supports concepts taught in VASC 117. Prerequisite: Permission of instructor. (SCC)

VASC 131 - Core Concepts in Vasc (2 cr)

The core concepts in cardiac and vascular imaging will be explored. Applications of blood flow and hemodynamic analysis using Doppler and imaging technologies. Review of current literature and standards documents will be conducted. Prerequisite: Admission to the program and concurrent enrollment in VASC 132, 133, 138. (SCC)

VASC 132 - Vascular Procedures II (6 cr)

This course is a continuation of VASC 122. Students are exposed to more detailed vascular procedures used to assess the lower and upper extremities, abdomen, visceral organs and cerebral vasculature with emphasis on the ultrasonic examinations of these systems. Instrumentation commonly used in the vascular laboratory is also presented. Prerequisite: Admission to the program and concurrent enrollment in VASC 131, 134, 136. (SCC)

VASC 133 - ECHO Fundamentals (5 cr)

Introduction to the basic principles and application of the Doppler and echocardiographic procedures. The anatomy, image assessment, hemodynamics and clinical applications of cardiac ultrasound are emphasized. Laboratory experiences are provided. Prerequisite: Admission to the program and concurrent enrollment in VASC 131, 132, 138. (SCC)

VASC 134 - Vascular Technical Skills I (2 cr)

The student will develop intermediate skills in performing all vascular technology examinations, including cerebrovascular, peripheral arterial, peripheral venous and visceral/abdominal vascular examinations, in a clinical simulation format. Emphasis is on the development of the essential skills in the performance of all vascular technology imaging techniques. Prerequisite: Admission to the program and concurrent enrollment in VASC 131, 132, 136. (SCC)

VASC 135 - Ultrasound Physics and Instrumentation II (5 cr)

This course is a continuation of the concepts introduced in VASC 125. Ultrasound physics emphasizes the Doppler techniques, artifacts, bio utilizing instrumentation to investigate the principles of Doppler techniques and artifacts. Prerequisite: Admission to the program and concurrent enrollment in VASC 122. (SCC)

VASC 136 - Comparative Imaging Analysis (3 cr)

The student will be exposed to normal anatomy and pathology cases that combine diagnostic medical sonography, computed tomography, magnetic resonance imaging and angiography. The student will gain an understanding of how diagnoses are made and patients are managed on the basis of findings from multiple imaging modalities. Prerequisite: Admission to the program and concurrent enrollment in VASC 131, 132, 134. (SCC)

VASC 138 - Cardiovascular Physiology (4 cr)

This course is an advanced study of normal cardiovascular physiology presented in a series of physician lectures and lab demonstrations with applications in invasive and noninvasive cardiology. Prerequisite: BIOL& 241, 242. Admission to the program and concurrent enrollment in VASC 131, 132, 133. (SCC)

VASC 139 - Surgical Asepsis (1 cr)

Surgical asepsis for health care providers. This class will prepare the student to create a sterile field. Gown and glove themselves and others. Procedural awareness of working in a sterile field will be developed. Prerequisite: Enrollment in ICT program or permission of instructor. (SCC)

VASC 140 - Technical Skills/Surgical Asepsis (1 cr)

This class supports ICT 140. The skills of surgical asepsis and infection control are taught. Working in a sterile field and gowning and gloving are taught. Develop a surgical conscience. Prerequisite: Enrollment in ICT program or permission of instructor. (SCC)

VASC 141 - Data Collection and Presentation (3 cr)

Students explore applications in medicine and develop the ability to use the microprocessor for word processing database management and statistical analysis. Principles of statistics are reviewed and applied through database management. Prerequisite: Admission to the program and concurrent enrollment in VASC 143, 144. (SCC)

VASC 142 - Survey of Diagnostic Medical Sonography (3 cr)

A survey of basic diagnostic medical sonography with an emphasis on normal abdominal and superficial structures anatomy and abnormal disease states. Standard sonographic imaging techniques of abdomen and superficial structures, instrumentation and examination protocols will be reviewed. Laboratory experience is required. Prerequisite: Admission to the program. (SCC)

VASC 143 - Vascular Screening Simulation (4 cr)

Students are introduced to the clinical environment by spending four weeks in the clinical setting under the direction of a staff technologist. Weekly clinical seminars are conducted with SCC staff. A clinical consciousness is developed that emphasizes professionalism, clinical rapport, medical ethics and patient care. Prerequisite: Admission to the program and concurrent enrollment in VASC 141, 144. (SCC)

VASC 144 - Vascular Screening Seminar (2 cr)

Vascular screening seminar will be conducted weekly to discuss cases presented during the vascular screening procedures performed. A clinical consciousness will be developed with emphasis on professionalism, clinical rapport, medical ethics and patient care. Prerequisite: Admission to the program and concurrent enrollment in VASC 141, 143. (SCC)

VASC 213 - Electrophysiology (4 cr)

Students are introduced to the field of cardiovascular technology, basic cardiac anatomy; physiology and electrophysiology with emphasis on the performance and interpretation of the electrocardiogram. Laboratory experiences to support these concepts also are included. Prerequisite: Enrollment in vascular technology program or permission of instructor. (SCC)

VASC 251 - Vascular Technical Skills (4 cr)

The student will develop intermediate to advanced skills in performing all vascular technology examinations, including cerebrovascular, peripheral arterial, peripheral venous and visceral/abdominal vascular examinations, in a clinical simulation format. Emphasis is placed on new developments and specialty applications as well as development of the essential skills in the performance of all vascular technology imaging techniques. All procedures are performed under the supervision of credentialed vascular technologists. Prerequisite: Admission to the program. (SCC)

VASC 252 - Advanced Vascular Techniques (7 cr)

This course uses the fundamentals presented in the first year of vascular technology to evaluate acquired vascular disease states. The incorporation of all forms of vascular testing performance and interpretation of ultrasonic, Doppler and plethysmographic examinations are presented. Related physician lectures and laboratory experiences are provided. (SCC)

VASC 253 - Vascular Clinical I (2 cr)

Students obtain advanced hands-on experience in hospital and clinical environments. Development of clinical technique in the utilization of current echocardiographic instrumentation in the evaluation of acquired cardiovascular disease is emphasized. Students apply the principles of medical legal ethics and professionalism to the patient, physician and other members of the health team. Clinical case reports are required. Prerequisite: Admission to the program and concurrent enrollment in VASC 252. (SCC)

VASC 254 - Vascular Clinical Preparation (2 cr)

Students review all course materials in the first year with application on the clinical setting. Students develop skill at identification of both normal and abnormal images. Course is aligned with technical skills laboratory experience to allow students to develop clinical skills prior to assignment in a clinical setting. Prerequisite: Admission to the program. (SCC)

VASC 255 - Research Methods and Biostatistics (3 cr)

This course will discuss the basic principles of epidemiology and descriptive biostatistics as they apply to echocardiography and vascular technology. Topics include basic statistics, disease occurrence and recurrence, patterns and trends in a population, and interpretation of results. Prerequisite: Admission to program and concurrent enrollment in VASC 251, 252, 253, 254. (SCC)

VASC 256 - Cardiovascular Pathophysiology (1 cr)

This course describes the pathophysiology of cardiovascular diseases, their diagnosis and treatment. Presented as a series of physician lectures. Prerequisite: Enrollment in vascular technology program or permission of instructor. (SCC)

VASC 262 - Vascular Clinical II (14 cr)

Students practice clinical skills previously developed through active participation in a vascular laboratory. This course is a full-time clinical internship and is completed in an affiliated local or out-of-town hospital, clinic, or physician's office. Emphasis of this course is on the clinical skills necessary for the performance and evaluation of the vascular procedures. Written reports, review of current literature and attendance at conferences are required. Prerequisite: Admission to the program. (SCC)

VASC 272 - Vascular Clinical III (14 cr)

This course is a continuation of VASC 262 and includes a full-time clinical internship and is completed in an affiliated local or out-of-town hospital, clinic, or physician's office. Emphasis of this course is on the clinical skills necessary for the performance and evaluation of the vascular procedures. Written reports, review of the current literature and attendance at conferences are required. Prerequisite: Admission to the program. (SCC)

VASC 299 - Independent Studies in Vascular Technology (1-13 cr)

This course is designed for students wishing to complete specialized studies in the field of vascular technology. Objectives are developed jointly by the student and instructor. Credit hours are assigned according to the length of time required to complete the objectives. Credits are agreed upon at the time of enrollment. Students complete specialized clinical internships in pediatric echocardiography, color flow mapping or vascular technology. Prerequisite: Current enrollment or graduate of Vascular Technology, or permission of instructor. (SCC)

WATER RESOURCES TECHNOLOGY

WATER 109 - Introduction to Water Resources (5 cr)

This course introduces the fundamentals of field hydrology and the various components of the hydrologic cycle with an emphasis on runoff and hydrologic measurements, basic computational techniques, and water rights doctrines. (SCC)

WATER 110 - Hydrogeology (5 cr)

Students study the basic geologic framework and hydrology of aquifers. Geologic factors such rock type, structure, geomorphology and geologic environments are introduced. Groundwater terminology, basic principles of groundwater flow, practical application of geologic maps and aerial photos, and basic computational skills are emphasized. (SCC)

WATER 120 - Hydrologic Technical and Field Reports (5 cr)

This course introduces the fundamental techniques of gathering, organizing and presenting technical hydrologic information in written and verbal form. Research of employment opportunities and various job descriptions particular to the water resources career field is conducted. Students learn to complete job application forms and resumes. (SCC)

WATER 128 - Occupational Preparation and Experience (1-10 cr)

This practical course assists students in pursuing careers in water resources. Students learn to complete employment applications, resumes and employment portfolios. Faculty assist students in making employer contacts, interviewing and follow-up. Students are required to evaluate their work experiences and submit comprehensive written and oral reports. (SCC)

WATER 129 - Occupational Preparation and Experience (1-10 cr)

This practical course assists students in pursuing careers in water resources. Students learn to complete employment applications, resumes and employment portfolios. Faculty assist students in making employer contacts, interviewing and follow-up. Students are required to evaluate their work experiences and submit comprehensive written and oral reports. (SCC)

WATER 131, 132, 133, 231, 232, 233 - Hydrologic Field Projects (1-3 cr ea)

This course provides practical experience that allows students to gain additional knowledge in a special topic of interest in water resource management. Guidance from the water resource instructors is provided to help students maximize their projects. (SCC)

WATER 135 - Pumps, Pipes, Hydrants, and Valves (3 cr)

Introduction to common pumps, pipes, hydrants, and valves used in water and waste water operations. (SCC)

WATER 205 - Differential Leveling (3-5 cr)

This course introduces principles of differential levelling emphasizing common applications in Environmental Sciences field investigations, such as cross sectional and longitudinal profiles. Prerequisite: NATRS 122. (SCC)

WATER 206 - Basic Mechanical Maintenance and Repair (3 cr)

Introduction to basic mechanical maintenance and repair procedures commonly used in water and waste water operations. (SCC)

WATER 208 - Water Data and Records Analysis (5 cr)

Students learn basic computation and tabulation techniques, diagrammatic presentation and interpretation of hydrologic data. Analyzing water level recorder charts and state-discharge relationships are emphasized. Students learn basic computer processing of records. (SCC)

WATER 209 - Water Quality (5 cr)

This course introduces geologic and drainage basin characteristics. Students learn how man's influence through management activities impact water quality, timing and quantity of flow. Students study ecologic characteristics from a limnological viewpoint combining aspects of water quality and biology. Water quality field sampling and laboratory procedures are practiced. (SCC)

WATER 210 - Hydrologic Measurement (3 cr)

This course offers practical experience in the fundamentals of streamflow measurement with emphasis on discharge and stage monitoring. The use, care and maintenance of various instruments and equipment are stressed. (SCC)

WATER 211 - Water and Wastewater Regulations (3 cr)

An introduction to federal, state, and tribal water quality regulations pertaining to water and waste water operations. (SCC)

WATER 212 - Water Rights and Laws (5 cr)

Students to gain a basic understanding of the water rights doctrines and learn practical applications in water management. Water quality regulations that govern the use of water in the western states is emphasized such as the Clean Water Act, Washington State Forest Protection Act and Spokane County regulations. (SCC)

WATER 213 - Advanced Water Quality (3-5 cr)

This course emphasizes basic techniques of field water quality monitoring and sampling. Laboratory analyses of field samples are conducted with a follow-up of data interpretation and recommendations. (SCC)

WATER 214 - Advanced Hydrologic Records (3 cr)

Students gain practical experience and develop skills in streamflow measurements, records management and surveying. Instrument and equipment maintenance are emphasized. Various standard computational techniques such as data processing and spread sheets are introduced. (SCC)

WATER 215 - Construction Inspection and Management (3 cr)

Introduction to planning, coordinating, and inspecting construction practices and related procedures in water and waste water operations. (SCC)

WATER 216 - Watershed Restoration (3-5 cr)

Students are given the opportunity to analyze stream corridor processes and characteristics and then apply this knowledge in a final restoration project. (SCC)

WATER 218 - Hazardous Materials (3 cr)

Students study hazardous materials regulations, terminology, identification systems, shipping and storage containers, incident command systems and basic analysis, information resources, chemical protective clothing, and decontamination. This course meets the requirements for the 40-hour certificate. (SCC)

WATER 228 - Occupational Preparation and Experience (1-10 cr)

This practical course assists students in pursuing careers in water resources. Students learn to complete employment applications, resumes and employment portfolios. Faculty assist students in making employer contacts, interviewing and follow-up. Students are required to evaluate their work experiences and submit comprehensive written and oral reports. (SCC)

WATER 229 - Occupational Preparation and Experience (1-10 cr)

This practical course assists students in pursuing careers in water resources. Students learn to complete employment applications, resumes and employment portfolios. Faculty assist students in making employer contacts, interviewing and follow-up. Students are required to evaluate their work experiences and submit comprehensive written and oral reports. (SCC)

WATER 288 - Cooperative Education Work Experience (No Seminar) (1-18 cr)

For course description, see Cooperative Education. (SCC)

WELDING AND FABRICATION

WELD 104 - Welding and Fabrication Basics (5 cr)

Students learn the basic concepts of welding and fabrication. (SCC)

WELD 113 - Welding Math (1-3 cr)

This course introduces theory and practical application utilizing formulas to solve problems encountered in the fabrication industry. This course may be repeated up to three times for a total of three credits. Prerequisite: Concurrent enrollment in WELD 114, 115, 116, 117 or permission of instructor. (SCC)

WELD 114 - Introduction to Blueprint Reading (2 cr)

This course introduces students to blueprint reading. Structural shapes, conventional and auxiliary views, sections, and welding joints are emphasized. Prerequisite: Concurrent enrollment in WELD 113, 115, 116, 117 or permission of instructor. (SCC)

WELD 115 - Introduction to Fabrication (3 cr)

This course introduces tools, equipment and materials used in the layout and fabrication of a variety of welding projects with emphasis on their functions and proper use. Welding shop safety procedures are stressed. Prerequisite: Concurrent enrollment in WELD 113, 114, 116, 117 or permission of instructor. (SCC)

WELD 116 - Shielded Metal Arc Welding Theory (3 cr)

This course introduces shielded metal arc welding theory. Welding safety and positions, equipment setup, striking an arc, and cutting operations are emphasized. Prerequisite: Concurrent enrollment in WELD 113, 114, 115, 117 or permission of instructor. (SCC)

WELD 117 - Shielded Metal Arc Welding Applications (1-7 cr)

This course offers practical lab experience utilizing the concepts introduced in WELD 116. The selection and application of welding electrodes to specific weld joints are emphasized. Prerequisite: Concurrent enrollment in WELD 113, 114, 115, 116 or permission of instructor. (SCC)

WELD 121 - Intermediate Welding Math (1 cr)

This intermediate course continues with theory and practical application utilizing formulas to solve problems encountered in the fabrication industry. Concurrent enrollment in WELD 114, 115, 116, 117 or permission of instructor. (SCC)

WELD 123 - Intermediate Blueprint Reading (2 cr)

This course continues the concepts introduced in WELD 114. The interpretation of blueprints and corresponding welding symbols are emphasized. Prerequisite: Concurrent enrollment in WELD 124, 125, 126 or permission of instructor. (SCC)

WELD 124 - Advanced Shielded Metal Arc Welding Theory (3 cr)

This course continues the concepts introduced in WELD 116. Welding metallurgy, electrode classifications, and the uses of carbon and alloy steels are introduced. Prerequisite: Concurrent enrollment in WELD 123, 125, 126 or permission of instructor. (SCC)

WELD 125 - Advanced Shielded Metal Arc Welding Applications (1-7 cr)

This course provides advanced lab experience of the theory introduced in WELD 124. Welding practices used when working with carbon and alloy steels are emphasized. 1-7 credits prior learning credits may be applied totaling no more than seven credits. Prerequisite: Concurrent enrollment in WELD 123, 124, 126 or permission of instructor. (SCC)

WELD 126 - Intermediate Fabrication (3 cr)

This course offers practical lab experience using the skills acquired in the first quarter theory and lab courses. Layout and fabrication of a variety of welding projects are emphasized. Prerequisite: Concurrent enrollment in WELD 123, 124, 125 or permission of instructor. (SCC)

WELD 127 - Fabrication Machine Operation (2 cr)

Students learn the safe and proper way to set up and use various fabrication machines commonly found in a production setting. The machines used may include: Iron worker shear and punch, horizontal band saw, chop saw, drill press, grinders, tubing bender. (SCC)

WELD 131 - Advanced Welding Math (1 cr)

This advanced course continues with theory and practical application utilizing formulas to solve problems encountered in the fabrication industry. Prerequisite: Concurrent enrollment in WELD 114, 115, 116, 117 or permission of instructor. (SCC)

WELD 133 - Advanced Blueprint Reading (2 cr)

This course continues the concepts introduced in WELD 114 and 123 with emphasis on the interpretation of complex working drawings applying design, layout and sequence of fabrication factors. Prerequisite: Concurrent enrollment in WELD 134, 135, 136 or permission of instructor. (SCC)

WELD 134 - Specialty Welding Theory (3 cr)

This course introduces metallurgy and other welding processes such as gas tungsten arc welding, gas metal arc welding and flux core arc welding. Prerequisite: Concurrent enrollment in WELD 133, 135, 136 or permission of instructor. (SCC)

WELD 135 - Specialty Welding Applications (1-7 cr)

This course offers practical applications in equipment setup and operational procedures used in a variety of welding processes. Safety considerations and X-ray quality welding are emphasized. Prerequisite: Concurrent enrollment in WELD 133, 134, 136 or permission of instructor. (SCC)

WELD 136 - Advanced Fabrication (3 cr)

This course offers practical applications in the layout and fabrication of metal projects utilizing the appropriate welding processes and fabrication equipment. Prerequisite: Concurrent enrollment in WELD 133, 134, 135 or permission of instructor. (SCC)

WELD 143 - Specialized Blueprint (2 cr)

Students will work from progressively more complex blueprints and build parts from them. (SCC)

WELD 144 - Specialized Theory (3 cr)

In depth study of the theory of specialty processes such as pulsed spray GMAW and aluminum GMAW. Prerequisite: Completion of 2nd and or 3rd quarter of Welding and Fabrication program. (SCC)

WELD 145 - Specialized Fabrication (3 cr)

Students will fabricate from blue prints finished beams and small columns. Prerequisite: Completion of 2nd and/or 3rd quarter of Welding and Fabrication program. (SCC)

WELD 146 - Specialized Welding (1-7 cr)

Students will weld on structural shapes and parts as they would in a shop environment. Prerequisite: Completion of 2nd and/or 3rd quarter of Welding and Fabrication program. (SCC)

WELD 165 - Oxy-Acetylene Welding (1 cr)

Students are trained in the selection and use of oxy-acetylene welding and cutting equipment and supplies to perform basic maintenance, repair and construction jobs encountered in various mechanical fields. Prerequisite: Permission of instructor. (SCC)

WELD 168 - Arc Welding (1 cr)

Students are trained in the selection and use of arc welding equipment and supplies to perform basic maintenance, repair and construction jobs encountered in various mechanical fields. Prerequisite: Permission of instructor. (SCC)

WELD 266 - Cooperative Education Seminar (1-2 cr) For course description, see Cooperative Education. (SCC)

WELD 267 - Cooperative Education Work Experience (1-18 cr)

For course description, see Cooperative Education. (SCC)

ZOOLOGY

ZOOL 121 - Invertebrate Zoology (5 cr)

Basic structure of animals, comprehensive survey of invertebrate phyla, anatomy and ecological relationships. Meets A.A. degree lab science requirement. Prerequisite: BIOL& 160. (SCC, SFCC)

ZOOL 122 - Vertebrate Zoology (5 cr)

Anatomy, physiology, evolution and ecology of fish, amphibians, reptiles, birds and mammals. Meets A.A. degree lab science requirement. Prerequisite: BIOL& 160. (SCC, SFCC)