Career and Technical Program Outlines

ACCOUNTING ASSISTANT

A.A.S. Degree, 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 who successfully complete this course will be able to

- Analyze financial data and prepare statistical comparisons for use in the budgeting process.
- Assist in determination of inventory order quantities, cash requirements, capital investment decisions, and break-even analysis.
- Use various types of office machines.
- Post and/or supervise the posting of accounts receivable and payable
- Help maintain data processing applications of routine accounting systems
- Have a basic comprehension of business operations, a knowledge of business vocabulary, and an understanding of economic systems
- Prepare monthly, quarterly or annual business and payroll tax reports
- Process payroll related transactions

Students will receive an Accounting Clerk certificate after completing the first three quarters of the A.A.S. degree. All students graduating from this program must have a minimum grade of 2.0 on each of the Accounting, Economic and General Business required courses. Students must also have a 2.0 cumulative minimum grade point average on all required courses in this program.

This degree is non-transferable to a four-year university. Students working toward the associate of arts degree for transfer to a four-year institution should consult individually with an adviser or counselor for planning the A.A. degree program. For information on A.A. 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.

FIRST YEAR

| First Q | First Quarter | | | |
|---------|---------------|-------------------------------------|--|--|
| ACCT | 151 | College Accounting I ¹ 5 | | |
| CATT | 120 | Microsoft Word I | | |
| CATT | 138 | Microsoft Excel I | | |
| GBUS | 101 | Introduction to Business | | |
| | | Total | | |
| Second | l Qua | rter | | |
| ACCT | 152 | College Accounting II ¹ | | |
| CATT | 139 | Microsoft Excel II | | |
| CATT | 190 | Introduction to PowerPoint2.5 | | |
| GBUS | 104 | Business Mathematics | | |
| | | Total | | |
| Third (| Quart | er | | |
| ACCT | 141 | QuickBooks | | |
| ACCT | 161 | Payroll Procedures | | |
| ACCT | 162 | Business Tax Accounting | | |
| BT | 109 | Business Communications 5 | | |
| | | Total 15 | | |

SECOND YEAR

| Fourth | Quar | rter |
|-------------|-------|--|
| ACCT | 142 | Advanced QuickBooks 5 |
| ACCT | 212 | Accounting Applications and Analysis ² |
| ENG | 109 | Speech Composition AND |
| SPCH | 101 | Introduction to Speech Communication 5 |
| | | Total |
| Fifth Q | uarte | r |
| ACCT | 204 | Governmental/Not-For-Profit 5 |
| GBUS | 280 | Human Relations in Business |
| | | Business Electives |
| | | Total |
| Sixth Q | uarto | er |
| ACCT | 218 | Accounting Analysis Simulation |
| ACCT | 288 | Cooperative Education Work Experience (No Seminar) 2 |
| ECON | 100 | Fundamentals of Economics 5 |
| GBUS | 205 | Business Law |
| | | Business Electives |
| | | Total |

90 credits are required for an A.A.S. degree and 45 credits are required for a certificate.

- ¹ These courses may be substituted with ACCT 101 and 102.
- ² This course may be substituted with ACCT 105.

ADMINISTRATIVE ASSISTANT

A.A.S. Degree: SCC

The administrative assistant program combines a well-balanced academic program with expert secretarial instruction giving students the diversified training and background needed to hold positions of responsibility and importance in many areas of the business world. This program helps raise the office skills of students to a professional level, gives students a technical background through completion of technical skill courses and an academic background, provides students a mature understanding of professional responsibilities, and provides for minimum additional on-the-job training.

| First Q | First Quarter | | | |
|---------|---------------|--|--|--|
| BT | 090 | Basic Grammar for Business II 5 | | |
| BT | 102 | Document Processing | | |
| BT | 151 | Business Student Preparation5 | | |
| | | Total | | |
| Second | l Qua | rter | | |
| BT | 109 | Business Communications 5 | | |
| BT | 165 | Word Processing5 | | |
| CATT | 102 | Introduction to Outlook | | |
| GBUS | 103 | Basic Business Math and Electronic Calculators 5 | | |
| | | Total17.5 | | |
| Third Q |)uart | er¹ | | |
| BT | 160 | Job Preparation Techniques | | |
| BT | 231 | Office Procedures5 | | |
| BT | 235 | Machine Transcription | | |
| MMGT | 223 | Customer Service | | |
| | | Total | | |
| SECON | D YE | AR | | |
| Fourth | Quar | rter | | |
| ACCT | 101 | Principles of Accounting OR | | |
| ACCT | 151 | College Accounting I | | |
| BT | 201 | Information Processing | | |
| BT | 272 | Business Correspondence 5 | | |

| Fifth Q | Fifth Quarter | | | |
|---------|---------------|--|--|--|
| BT | 202 | Advanced Information Processing 5 | | |
| BT | 250 | Information Technology | | |
| BT | 260 | Administrative Office Management | | |
| | | Elective ² | | |
| | | Total20 | | |
| Sixth Q | uarte | er | | |
| BT | 263 | Integrated Office Applications 5 | | |
| BT | 285 | Administrative Professional Internship 2 | | |
| CATT | 128 | Desktop Publishing | | |
| CATT | 241 | Project Management Applications | | |
| MMGT | 242 | Project Management | | |
| | | Total | | |

100.5 credits are required for an A.A.S. degree.

- ¹ To enter the third quarter of this program, students must pass competency tests in the following areas:
 - Math (fractions, percentages, etc.)
 - Writing (write a basic letter, memo, and/or e-mail with correct spelling, punctuation, grammar, etc.)
 - Format documents from unarranged copy in a timed situation (letters, memos, reports, tables) using Word.
 - Keyboarding proficiency of 40 wpm.
- ² This elective may be ACCT 141, GBUS 204, 205, 280 or SPCH 102.

ADMINISTRATIVE/COMPUTER SPECIALIST

A.A.S. Degree: SFCC

This curriculum is designed to prepare students for careers as management information specialists, salespersons for vendors or retailers of microcomputer hardware and software, or technical support specialists. The beginning classes provide students with basic computer processing concepts and skills, along with necessary related accounting, management and communication skills. The advanced classes develop skills in microcomputer applications for business systems, operating systems and local area networks. Topics include programming, system software concepts, using applications packages, data base concepts, telecommunications and support of end users.

FIRST YEAR

| First Qu | uarte | r |
|-------------|-------|---|
| BT | 101 | Keyboarding ¹ |
| BT | 107 | Business Communications ² |
| CAPPS | 104 | Windows |
| GBUS | 102 | Math Skills for Business ³ |
| IS | 120 | Business Computer Use |
| | | Total |
| Second | Qua | rter |
| BT | 108 | Business Communications ² |
| CAPPS | 110 | Word |
| CAPPS | 120 | Outlook |
| IS | 142 | Hardware Fundamentals |
| IS | 143 | Operating System Fundamentals |
| IS | 144 | Programming Fundamentals |
| IS | 160 | Internet Fundamentals |
| | | Total |
| Third Q | uart | er |
| ACCT | 101 | Principles of Accounting ⁴ 5 |
| CAPPS | 112 | Excel |
| CAPPS | 114 | Access |
| GBUS | 280 | Human Relations in Business OR |
| HS | 136 | Improving Interpersonal Communication5 |
| GRDSN | 158 | PhotoShop I |
| | | Total 18 |
| SECON | D YE | AR |
| Fourth | Quar | ter |
| BT | 257 | Presentation Graphics/Publishing |
| BT | 272 | Business Correspondence |

| GRDS | SN 126 | Web Production | 2 |
|-------|--------|--|---|
| IS | 162 | | |
| IS | 210 | Internet Programming I | 3 |
| | | Total | |
| Fifth | Quarte | r | |
| ВТ | 255 | Business Productivity Tools | 3 |
| BT | 260 | | |
| IS | 164 | | |
| | | Elective | |
| | | Total | |
| Sixth | Quart | er | |
| BT | 160 | Job Preparation Techniques | 3 |
| BT | 201 | Information Processing | |
| BT | 285 | Administrative Professional Internship | |
| 21 | | Elective | |
| | | Total | |
| | | | |

95 credits are required for an A.A.S. degree.

See department for listing of approved electives.

- Students may take BT 102 if they possess keyboarding skills at 35 wpm and knowledge of business document formatting. Permission of instructor recommended.
- ² ENG 101 may be substituted.
- ³ GBUS 103 may be substituted.
- 4 Students may take ACCT 103 (3 credits) AND two credits of approved accounting credits. Permission of instructor.

ADMINISTRATIVE OFFICE MANAGEMENT

A.A.S. Degree: SCC

The administrative office management program prepares students to manage functions in the office environment. 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 will have expert office skills and in-depth software knowledge. The program provides training in office information systems, work process and organizational performance improvement, human relations, business communications, business decision making, project management, and human resource management.

| FIRST Y | <u> </u> | |
|-------------|----------|--|
| First Q | uarte | r |
| BT | 102 | Document Processing |
| BT | 109 | Business Communications 5 |
| CATT | 102 | Introduction to Outlook |
| GBUS | 103 | Basic Business Math and Electronic Calculators 5 |
| | | Total17.5 |
| Second | l Qua | rter |
| BT | 165 | Word Processing |
| BT | 231 | Office Procedures |
| SPCH | 102 | Interpersonal Communication 5 |
| | | Total |
| Third Q |)uart | er ¹ |
| ACCT | 101 | Principles of Accounting OR |
| ACCT | 151 | College Accounting I |
| BT | 201 | Information Processing |
| GBUS | 280 | Human Relations in Business 5 |
| | | Total |
| SECON | D YE | AR |
| Fourth | Quai | ter |
| BT | 202 | Advanced Information Processing 5 |
| BT | 272 | Business Correspondence 5 |
| GBUS | 204 | Introduction to Law OR |
| GBUS | 205 | Business Law |
| MATH | 201 | Introduction to Finite Mathematics 5 |
| | | Total20 |

| | | · - | |
|---------|-------|--|----|
| BT | 160 | Job Preparation Techniques | 3 |
| BT | 250 | Information Technology | 5 |
| BT | 260 | Administrative Office Management | 5 |
| CATT | 241 | Project Management Applications | .5 |
| MMGT | 242 | Project Management | .5 |
| | | Total | 8 |
| Sixth Q | uarte | er | |
| BT | 263 | Integrated Office Applications | 5 |
| BT | 285 | Administrative Professional Internship | 2 |
| CATT | 128 | Desktop Publishing | 5 |
| MMGT | 231 | Human Resource Management | 5 |
| | | Total | 7 |

102.5 credits minimum are required for an A.A.S. degree.

- ¹ To enter the third quarter of this program, students must pass competency tests in the following areas:
 - *Math (fractions, percentages, etc.)*

Fifth Quarter

- Writing (write a basic letter, memo and/or e-mail with correct spelling, punctuation, grammar, etc.)
- Format documents from unarranged copy in a timed situation (letters, memos, reports and tables) using Word.
- Keyboarding proficiency of 40 wpm.

ADMINISTRATIVE SECRETARY

A.A.S. Degree: SFCC

At the core of almost every business are administrative support personnel. Students will gain proficiency in computer and Windows applications, learn the latest electronic communication tools, acquire speed and accuracy on the keyboard, and learn office procedures essential in today's business environment.

Students completing this degree will be competent in the following areas: taking notes at meetings and preparing minutes, oral and written communications, document formatting, basic accounting procedures, machine transcription, records management, office procedures, desktop publishing and spreadsheeting. 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 working world by participating in a work experience internship as well as model office simulations. Students may begin in entry-level positions as front office professionals and work their way up to higher paying administrative secretaries, administrative assistants, or office managers.

FIRST YEAR

| First Q | uarte | r |
|---------|-------|---------------------------------------|
| BT | 101 | Keyboarding ¹ |
| BT | 107 | Business Communications ² |
| GBUS | 102 | Math Skills for Business ³ |
| GENST | 106 | College Success |
| IS | 160 | Internet Fundamentals |
| | | Total |
| Second | Qua | rter |
| ACCT | 103 | Fundamental Bookkeeping Procedures |
| BT | 102 | Document Processing |
| BT | 108 | Business Communications ² |
| BT | 170 | WordPerfect ¹ |
| CAPPS | 114 | Access |
| | | Total |
| Third Q | uart | er |
| BT | 103 | Formatting |
| BT | 155 | Records Information Management |
| BT | 231 | Office Procedures5 |
| BT | 272 | Business Correspondence 5 |
| | | Total |

SECOND YEAR

| Fourth | Quar | ter | |
|-------------|-------|--|-----|
| BT | 232 | Office Procedures II | . 5 |
| BT | 235 | Machine Transcription | . 5 |
| BT | 257 | Presentation Graphics/Publishing | . 3 |
| CAPPS | 112 | Excel | |
| CAPPS | 120 | Outlook | . 2 |
| | | Total | 16 |
| Fifth Q | uarte | r | |
| BT | 255 | Business Productivity Tools | . 3 |
| BT | 260 | Administrative Office Management | . 5 |
| GBUS | 280 | Human Relations in Business OR | |
| HS | 136 | Improving Interpersonal Communication | |
| | | Approved Electives | . 4 |
| | | Total | 17 |
| Sixth Q | uarto | er | |
| BT | 160 | Job Preparation Techniques | . 3 |
| BT | 201 | Information Processing | . 5 |
| BT | 234 | Administrative Professional Practicum | . 5 |
| BT | 285 | Administrative Professional Internship | . 2 |
| | | Total | 15 |
| | | | |

96 credits are required for an A.A.S. degree.

See department for listing of approved electives.

- Students may take BT 102 if they possess keyboarding skills at 35 wpm and knowledge of business document formatting. Permission of instructor recommended.
- ² ENG 101 may be substituted.
- ³ GBUS 103 may be substituted.

AGRICULTURE TECHNOLOGY

A.A.S. Degree, Certificate: SCC

The agriculture technology 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.

| First Quarte | r¹ | |
|--------------------|--|----|
| AGHRT 104 | Principles of Pest Management | |
| AGHRT 116 | Green Industry Management | 5 |
| AGHRT 126 | Computer Essentials for Environmental Sciences | |
| AGHRT 171 | Agricultural Leadership Training | 1 |
| APLED 112 | Applied Mathematics ² | |
| | Total | 16 |
| Second Qua | rter³ | |
| AGGEN 151 | Agriculture Shop Skills | 4 |
| AGGEN 156 | Equipment Operation and Maintenance | 5 |
| AGHRT 101 | Basic Crop Science | 5 |
| AGHRT 102 | Pesticides and Application Equipment | |
| AGHRT 172 | Agricultural Leadership Training | |
| | Total2 | 20 |
| Third Quart | er ⁴ | |
| APLED 121 | Applied Written Communication ² | |
| ENVSC 210 | Environmental Soil Science | |
| NATRS 204 | Maps and Aerial Photo Interpretation | |
| | Total | 14 |
| Fourth Quar | rter (summer)5 | |
| AGHRT 266 | Cooperative Education Seminar | 1 |
| AGHRT 267 | Cooperative Education Work Experience | 7 |
| | Total | 8 |
| | | |

SECOND YEAR

| Fifth Quarte | r ¹ |
|--------------|--|
| AGHRT 230 | Plant Problem Diagnosis |
| AGHRT 232 | Pest Management Project |
| ENVSC 110 | Plant Biology 5 |
| WATER 109 | Introduction to Water Resources 5 |
| | Total 17 |
| Sixth Quarte | er ³ |
| AGGEN 154 | Small Engine Operation and Maintenance 4 |
| AGHRT 219 | Soil Management and Fertility 5 |
| NATRS 220 | Introduction to Geographic Information Systems for |
| | Natural Resources 4 |
| NATRS 230 | Global Positioning Systems |
| | Total |
| Seventh Qua | ırter⁴ |
| AGHRT 225 | Weed Biology and Control 5 |
| ENVSC 218 | Environmental Science Conservation Planning 3 |
| GBUS 280 | Human Relations in Business 5 |
| NATRS 221 | Applications in Geographic Information Systems 5 |
| | Total |
| | |

Certificate

The agriculture technology program is designed to train students for entry-level employment in the agricultural chemical and fertilizer industry as well as grain and farming operations.

First Quarter¹

| ALLED 112 | Total |
|-----------|--|
| | Applied Mathematics ² |
| AGHRT 171 | Agricultural Leadership Training |
| AGHRT 126 | Computer Essentials for Environmental Sciences 2 |
| AGHRT 116 | Green Industry Management 5 |
| AGHRT 104 | Principles of Pest Management 5 |

Second Quarter³

| AGGEN 151 | Agriculture Shop Skills | . 4 |
|-----------|--------------------------------------|-----|
| AGGEN 156 | Equipment Operation and Maintenance | . 5 |
| AGHRT 101 | Basic Crop Science | . 5 |
| AGHRT 102 | Pesticides and Application Equipment | . 5 |
| AGHRT 172 | Agricultural Leadership Training | . 1 |
| | Total | 20 |
| | | |

Third Quarter⁴

| | | Total | ı |
|--------------|-----|--|---|
| | | Elective ⁶ | , |
| ENVSC | 210 | Environmental Soil Science 5 | , |
| APLED | 121 | Applied Written Communication ¹ 4 | Ŀ |

 $109\,\mathrm{credits}$ are required for the A.A.S. degree and $50\,\mathrm{credits}$ are required for a certificate.

- ¹ These courses may be offered fall quarter only.
- ² This related education requirement may be met by any course or combination of courses approved by the instructional dean.
- ³ These courses may be offered winter quarter only.
- $^4\,$ These courses may be offered spring quarter only.
- ⁵ These courses may be offered summer quarter only.
- ⁶ The elective must be approved by the instructional dean.

Spray Technician Certificate

SCC's one-quarter Spray Technician Certificate Program is designed to provide entering students or currently employed individuals with the skills needed to succeed in an entry-level position applying pesticides and fertilizers in landscape maintenance and agrichemical industries.

| AGGEN 156 | Equipment Operation and Maintenance ¹ |
|-----------|---|
| AGHRT 102 | Pesticides and Application Equipment ¹ 5 |
| AGHRT 104 | Principles of Pest Management 5 |
| | Total |

15 credits are required for a certificate.

Small Equipment Repair Specialist Certificate

SCC's new one-quarter Small Equipment Repair Specialist is designed to provide entering students or currently employed individuals with the skills needed to succeed in an entry-level position maintaining and repairing a variety of small electric or gas-driven equipment used in landscape maintenance and agrichemical industries.

| AGGEN 152 | Arc Welding | 4 |
|-----------|---|---|
| | Oxy-acetylene Welding | |
| AGGEN 154 | Small Engine Operation and Maintenance ¹ | 4 |
| AGGEN 156 | Equipment Operation and Maintenance ² | 5 |
| | Total 1 | 7 |

17 credits are required for the certificate.

- ¹ This course may be offered winter quarter only.
- ² This course may be offered fall and winter quarters only.

ARCHITECTURAL TECHNOLOGY

A.A.S. Degree: SCC

The first year consists of line construction, lettering, architectural symbols, orthographic projections, freehand sketching, isometric pictorial drawing, light construction principles and use of drafting expressions. Additional emphasis is placed on architectural detailing which consists of drawing wall sections, window and door schedules, fireplace design and details, stair design and details, footings and foundations, floor plans, and framing plans. Utilization of the above is finalized in the development of residential working drawings of varying degrees of complexity.

The second year consists of architectural working drawings for commercial applications developed from a preliminary design; drafting techniques, standards and practices of the profession, including office procedure knowledge and use of building materials; structural framing systems as used in the building industry; and related engineering technical courses.

| First Quarte | er |
|--------------------|--|
| ARCHT 112 | Introduction to Architectural Drafting |
| ARCHT 114 | Architectural Math |
| ARCHT 120 | Residential Architecture Theory |
| ARCHT 126 | Introduction to Computer Aided Drafting5 |
| | Total18 |
| Second Qua | rter |
| ARCHT 122 | Basic Residential Drafting |
| ARCHT 124 | Advanced Architectural Math |
| ARCHT 130 | Residential Building Materials 4 |
| ARCHT 134 | Electrical and Mechanical Systems |
| ARCHT 139 | Delineation4 |
| | Total20 |
| Third Quart | er |
| APLED 121 | Applied Written Communication ¹ 4 |
| ARCHT 125 | Residential Building Codes 2 |
| ARCHT 132 | Advanced Residential Drafting/CAD |
| ARCHT 138 | CAD Applications |
| | Total 18 |
| SECOND YE | AR |
| Fourth Qua | rter |
| APLED 123 | Leadership Skills for Business and Industry ¹ 3 |
| ARCHT 240 | Commercial Building Codes |
| ARCHT 242 | Introduction to Commercial Drafting/CAD8 |
| ARCHT 246 | Commercial Architecture Theory |
| | Total |
| Fifth Quarte | er |
| APLED 125 | Employment Preparation ¹ |
| ARCHT 250 | Introduction to Commercial Building Materials 4 |
| ARCHT 251 | Advanced Commercial Building Codes |
| ARCHT 252 | Basic Commercial Drafting/CAD 8 |
| | Total 10 |

¹ This course may be offered fall and winter quarters only.

Sixth Quarter ARCHT 196 Special Problems² 4 ARCHT 262 Advanced Commercial Drafting/CAD² 10 ARCHT 263 Advanced Commercial Building Materials 4 Total 18

109 credits are required for an A.A.S. degree.

- 1 This related education requirement may be met by any combination of courses approved by the instructional dean.
- ² ARCHT 266 and 267 or 288 (no seminar) may be substituted for one or more of these courses with permission of the instructor.

AUDIO TECHNOLOGY

A.A.S. Degree, 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 digital/audio production, recording/live sound engineering, broadcast technicians 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, CD production and live sound reinforcement. They also receive an introduction to state of the art software programs specific to the digital recording industry. The first year also includes basic music theory, piano keyboard skills and the business aspects of the music industry.

The second year of the AAS degree provides advance study and implementation of the above as well as intensive study of the ProTools operating system. Students will pursue more specialized tracks in areas such as studio recording, CD production, live sound reinforcement and Musical Instrument Digital Interface (MIDI)/digital technologies.

FIRST YEAR

| First Qu | uarte | r |
|----------|-------|--|
| MUSIC | 101 | Music Theory I OR |
| MUSIC | 116 | Music Basics for Audio Professionals 5 |
| MUSIC | 117 | Introduction to Music Technology 5 |
| MUSIC | 155 | Introduction to Recording5 |
| MUSIC | 166 | Functional Piano I OR |
| MUSIC | 180 | Private Lessons |
| | | Total16-17 |
| Second | Qua | rter |
| BT | 107 | Business Communications |
| GBUS | 102 | Math Skills for Business |
| MUSIC | 110 | Contemporary Harmony |
| MUSIC | 113 | Live Sound and Location Recording I |
| MUSIC | 118 | MIDI Sequencing I |
| MUSIC | 120 | Digital Audio I |
| MUSIC | 167 | Functional Piano II OR |
| MUSIC | 180 | Private Lessons |
| | | Total |
| Third Q | uart | er |
| MUSIC | 119 | MIDI Sequencing II |
| MUSIC | 121 | Digital Audio II |
| MUSIC | 156 | Audio Engineering I |
| MUSIC | 159 | Business of Music |
| MUSIC | 209 | Demo CD Production |
| | | Total |
| SECON | D YE | ΔR |
| Fourth | | |
| MUSIC | 214 | |
| MUSIC | 214 | Contemporary Harmony II/Songwriting |
| MUSIC | 217 | Digital Audio III |
| MUSIC | 255 | Audio Engineering II |
| MUSIC | 233 | Total |
| =1641 | | |
| Fifth Q | | |
| MUSIC | 205 | MIDI Arranging |
| MUSIC | 213 | Live Sound |
| | | |

| MUSIC | 219 | Digital Audio IV 5 Related Education Elective 3-5 Total 17-19 |
|--|---|--|
| Sixth Q | uarto | er |
| MUSIC MUSIC MUSIC MUSIC | 206 256 220 259 | Film Scoring OR Audio Engineering Workshop. 5 Digital Audio V 5 Business of Music II 5 Related Education Elective 3-5 Total 18-20 |
| 106-112 | credi | ts are required for an A.A.S. degree. |
| | | STRUCTION ELECTIVES: |
| BT BT ENG ENG GBUS GBUS GBUS GBUS HS | 108 272 101 205 103 104 105 280 136 | Business Communications 3 Business Correspondence 5 English Composition 5 Technical Writing 5 Basic Business Math and Electronic Calculators 5 Business Mathematics OR Principles of Leadership 3 Human Relations in Business 5 Improving Interpersonal Communication 5 Any Math Course 099 or above 5 |
| Certif | icat | e |
| First Q | uarte | r |
| MUSIC MUSIC MUSIC MUSIC MUSIC MUSIC | 101 116 117 155 166 180 | Music Theory I OR Music Basics for Audio Professionals |
| Second | Oua | rter |
| BT GBUS MUSIC MUSIC MUSIC MUSIC MUSIC | 107 102 110 113 118 120 167 180 | Business Communications 3 Math Skills for Business 3 Contemporary Harmony 3 Live Sound and Location Recording I 3 MIDI Sequencing I 2 Digital Audio I 3 Functional Piano II OR Private Lessons 1-2 Total 18-19 |
| Third Q | - | |
| MUSIC MUSIC MUSIC MUSIC MUSIC | 119 121 156 159 209 | MIDI Sequencing II 2 Digital Audio II 3 Audio Engineering I 5 Business of Music 5 Demo CD Production 4 Total 19 |

53-55 credits are required for the certificate.

AUTOMOTIVE COLLISION AND REFINISHING TECHNICIAN

A.A.S. Degree: SCC

The automotive collision and refinishing technician program teaches skills including metalwork, glasswork, refinishing, and welding. Instruction is primarily by demonstration and individual help in a shop situation where field conditions are simulated. This includes wire feed; plastic repair; a study of basic hand tools and their uses; basic metal straightening techniques; use of modern shop equipment; and basic refinishing methods. The advanced portion of the course involves practical applications in metal straightening; body and panel alignment; frame and chassis repair; and body repair including both major damage and miscellaneous repair. Modern refinishing and paint techniques are included.

A comprehensive study of automobile refinishing, material damage estimating, insurance procedures, and shop procedures is emphasized.

| FIE | TZ | VE | Δ | D |
|-----|----|----|---|---|

| FIRST Y | EAR | | |
|----------------|------------|---|----|
| First Qu | uarte | r | |
| ABF | 113 | Introduction to Job Safety, Tools, and Equipment | 4 |
| ABF | 114 | Introduction to Unibody and Frame Alignment and | |
| | | Repair | |
| ABF | 115 | Basic Metal Straightening and Panel Alignment | |
| ABF | 116 | Introduction to Estimating and Parts Identification | |
| ABF | 117 | Automotive Collision MIG Welding | 1 |
| CIS | 105 | Computer Fundamentals for Vocations I | |
| | | Total | 9 |
| Second | Qua | rter | |
| ABF | 243 | Advanced Unibody and Frame Alignment and Repair. | 6 |
| ABF | 244 | Advanced Metal Straightening and Panel Alignment | |
| | | Methods | |
| ABF | 245 | Estimating Applications | |
| APLED | 112 | Applied Mathematics ¹ | |
| | | Total | 9 |
| Third Q | uart | er | |
| ABF | 133 | Introduction to Industrial Safety and Hygiene | 3 |
| ABF | 134 | Introduction to Interior and Exterior Surface | |
| | | Preparation | |
| ABF | 135 | Basic Polishing and Detailing | 3 |
| ABF | 136 | Introduction to Topcoat Systems and Application | |
| | | Procedures | 3 |
| ABF | 137 | Basic Color Matching and Paint Mixing Fundamentals | |
| APLED | 125 | Employment Preparation ¹ | |
| | | Total | 9 |
| SECON | D YE | AR | _ |
| Fourth | Quai | | |
| ABF | 263 | Advanced Interior and Exterior Surface Preparation | |
| ABF | 264 | Advanced Paint Application, Color Matching, and Paint | |
| | | Mixing | |
| ABF | 265 | Materials and Cost Estimation | |
| ABF | 268 | Advanced Finessing, Compounding, and Detailing | |
| MMGT | 205 | Small Business Planning ¹ | |
| | | Total | .1 |
| Fifth Q | | | |
| ABF | 123 | Introduction to Major Panel Replacement | 5 |
| ABF | 124 | Introduction to Mechanical Components | 3 |
| ABF | 125 | Introduction to Major Unibody and Frame Repair | |
| ABF | 126 | Fundamentals of Shop Procedures | 3 |
| APLED | 121 | Applied Written Communication ¹ | |
| ISFTY | 111 | Industrial First Aid | |
| | | Total2 | 2 |
| Sixth Q | uart | er | |
| | | | |

Total19 119 credits are required for an A.A.S. degree.

ABF

ABF

APLED 123

Students must complete each ABF and related course with a 2.0 grade point or better before advancing to subsequent quarters.

253 Intermediate Major Panel Replacement Applications. . 6

254 Intermediate Mechanical Components Applications . . 4

255 Intermediate Major Unibody and Frame Methods.... 6

Leadership Skills for Business and Industry 3

ABF 266 and 267 or ABF 288 may be substituted for ABF courses in the sixth quarter with permission of the instructor.

AUTOMOTIVE MACHINIST

A.A.S. Degree, Certificate: SCC

Successful completion of the two-year automotive machinist program enables graduates to enter the workforce as skilled craftsmen. They possess a thorough understanding of the internal combustion engine and the methods required to remanufacture the complete project. They have the knowledge and ability to safely and successfully operate sophisticated machinery. Students learn about materials used in today's high-tech engines with emphasis on the exacting tolerances necessary for successful operation of the finished engine. They are offered specialized training with intense theory and hands-on performance based objectives. All of the automotive machinist classes are competency-based to maximize the students' ability to learn the subject matter at their own pace.

The automotive machinist certificate program is offered to the person who has an automotive background and wishes to specialize as an automotive machinist. The program consists of the last three quarters $% \left(t\right) =\left(t\right) \left(t\right)$ of the two-year automotive machinist program. To enroll in the certificate program, the student should have industry experience. Instructor permission is required before enrolling.

FIRST YEAR

| FIKST YEAK | |
|-------------------|--|
| First Quarte | r |
| AUTMT 110 | Principles of Engine Operation and Identification 9 |
| AUTMT 111 | Engine Disassembly Methods4 |
| AUTMT 112 | Basic Machinery Operation |
| AUTMT 113 | Shop Safety |
| CIS 105 | Computer Fundamentals for Vocations I 2 |
| | Total20 |
| Second Qua | rter |
| AGGEN 157 | Arc Welding |
| AGGEN 158 | Oxy-acetylene Welding |
| AUTMT 120 | Machinery Setup and Maintenance |
| AUTMT 121 | Machinery Setup and Maintenance Applications 8 |
| | Total |
| Third Quart | er |
| AGGEN 161 | Advanced Maintenance Welding |
| APLED 123 | Leadership Skills for Business and Industry ¹ 3 |
| AUTMT 130 | Principles of Air Flow |
| AUTMT 131 | Air Flow Applications |
| AUTMT 132 | Camshaft and Cylinder Head Applications |
| | Total22 |
| SECOND YE | AR |
| Fourth Quar | rter |
| APLED 121 | Applied Written Communication 1 4 |
| AUTMT 210 | Engine Construction |
| AUTMT 211 | Engine Machining Theory I |
| AUTMT 212 | Engine Machine Applications I |
| | Total |
| Fifth Quarte | |
| APLED 125 | Employment Preparation 1 |
| AUTMT 220 | Practical Math |
| AUTMT 221 | Engine Machining Theory II 6 |
| AUTMT 222 | Engine Machining Applications II 8 |
| | Total |
| Sixth Quarte | er |
| AUTMT 230 | Engine Assembly and Testing ² |
| AUTMT 231 | Engine Machining Theory III ² |
| AUTMT 232 | Engine Machining Applications III ² |
| ISFTY 111 | Industrial First Aid ³ |
| | Total 16 10 |

116 credits are required for an A.A.S. degree and 55 credits are required for a certificate.

A 2.0 or better must be maintained in all automotive coursework before advancing to the subsequent quarter. Students not meeting this minimum requirement must repeat the course(s) before progressing.

- ¹ This related education requirement may be met by any alternate course or combination of courses approved by the instructional dean.
- ² AUTMT 266 (2 credits) and 267 (14 credits) or 288 (16 credits) may be substituted for AUTMT courses in fifth or sixth quarter with instructor permis-
- ³ Industrial First Aid is not required for the certificate.

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

AUTOMOTIVE TECHNOLOGY

A.A.S. Degree, 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 in any of the first five quarters. The one-year certificate requires completion of any three quarters of the automotive technology program and the four related classes identified in footnote 1. This flexible schedule also enables students to receive short-term certificates while pursuing their degree.

Students interested in receiving special training in Toyota T-TEN (Technical Education Network) may substitute specialized courses specifically catering to Toyota T-TEN (AUTO 235, 236, 240, 241, 252 and 262).

FIRST YEAR

| FIK51 I | EAK | |
|--------------|------------|--|
| First Q | uarte | r |
| APLED | 121 | Applied Written Communication ¹ 4 |
| AUTO | 111 | Theory of Brakes |
| AUTO | 112 | Theory and Application of Brake Repair 4 |
| AUTO | 131 | Principles of Suspension Systems |
| AUTO | 132 | Service and Repair of Suspension Systems |
| 71010 | 102 | Total20 |
| Second | . | |
| APLED | - | Applied Mathematics ¹ 4 |
| | 112 | Theory of Engines ² |
| AUTO AUTO | 211 212 | Theory and Application of Engine Repair 8 |
| AUTO | 212 | Total |
| -1 | | |
| Third Q | | |
| AGGEN | | Arc Welding |
| AUTO | 115 | Theory of Electronics and Accessories ² |
| AUTO | 116 | Diagnosis of Electronics and Accessories ² |
| AUTO | 215 | Advanced Theory of Electronics and Accessories ² 3 |
| AUTO | 216 | Advanced Diagnosis of Electronics and Accessories ² 4 |
| ISFTY | 111 | Industrial First Aid ¹ |
| | | Total |
| SECON | D YE | AR |
| Fourth | Quai | |
| AGGEN | 158 | Oxy-acetylene Welding |
| AUTO | 117 | Theory of Engine Performance ² 5 |
| AUTO | 118 | Diagnosis of Engine Performance ² |
| AUTO | 119 | Theory of Air Conditioning |
| AUTO | 120 | Air Conditioning Applications |
| CIS | 105 | Computer Fundamentals for Vocations I ¹ 2 |
| | | Total19 |
| Fifth Q | uarte | r |
| APLED | 125 | Employment Preparation ¹ |
| AUTO | 121 | Principles of Engine Performance, Air Conditioning, and |
| | | Electrical |
| AUTO | 122 | Engine Performance, Service, and Repair 5 |
| AUTO | 221 | Advanced Principles of Engine Performance, Air |
| | | Conditioning, and Electrical |
| AUTO | 222 | Advanced Engine Performance, Service, and Repair 4 |
| | | Total19 |
| Sixth Q | uart | er |
| AUTO | 113 | Theory of Transmissions/Transaxles ³ |
| AUTO | 114 | Diagnosis of Transmissions/Transaxles ³ |
| AUTO | 129 | Principles of Automatic Transmissions ³ 4 |
| AUTO | 130 | Service and Repair of Automatic Transmissions ³ 5 |
| MMGT | 205 | Small Business Planning ¹ |
| | 200 | Total |
| | | |

Students must complete each AUTO course with a 2.0 grade or better before advancing to subsequent quarters.

118 credits are required for an A.A.S. degree and 58-60 credits are required from any three quarters for a certificate.

one-year certificate are APLED 112, 121, 125 and ISFTY 111.

- ² These courses must be taken before AUTO 121 and 122.
- ³ AUTO 266 and 267 or 288 (no seminar) may be substituted. A maximum of 18 credits of cooperative education is allowed.

Brakes And Suspension Certificate

This short-term certificate provides students with both theory and practical lab applications in automotive brake, suspension 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.

| | | Total | 16 |
|------|-----|--|----|
| AUTO | 132 | Service and Repair of Suspension Systems | 5 |
| AUTO | 131 | Principles of Suspension Systems | 4 |
| AUTO | 112 | Theory and Application of Brake Repair | 4 |
| AUTO | 111 | Theory of Brakes | 3 |

16 credits are required for a certificate.

Engine Repair Certificate

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.

| | | Total |
|------|-----|---|
| | | Theory and Application of Engine Repair 8 |
| AUTO | 211 | Theory of Engines |

16 credits are required for a certificate.

Electronics/Electrical Certificate

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.

| | | Total |
|------|-----|---|
| AUTO | 216 | Advanced Diagnosis of Electronics and Accessories 4 |
| AUTO | 215 | Advanced Theory of Electronics and Accessories 3 |
| AUTO | 116 | Diagnosis of Electronics and Accessories 5 |
| AUTO | 115 | Theory of Electronics and Accessories 4 |

16 credits are required for a certificate.

Engine Performance/ Air Conditioning Certificate¹

This two-quarter certificate program emphasizes both engine performance and air conditioning systems and components. Content areas include ignition systems, fuel and exhaust/emissions systems, theory of carburetion and ignition systems. Students are introduced to heating and air conditioning systems and gain practical shop experience in their diagnosis and repair procedures.

| AUTO | 117 | Theory of Engine Performance |
|------|-----|---|
| AUTO | 118 | Diagnosis of Engine Performance6 |
| AUTO | 119 | Theory of Air Conditioning |
| AUTO | | Air Conditioning Applications |
| | | Total 16 |
| AUTO | 121 | Principles of Engine Performance, Air Conditioning, and |
| AUTO | 122 | Electrical |
| AUTO | 122 | Engine renormance, service, and kepair |
| AUTO | 221 | Advanced Principles of Engine Performance, Air |
| | | Conditioning, and Electrical |
| AUTO | 222 | Advanced Engine Performance, Service, and Repair 4 |
| | | Total 16 |
| | | |

32 credits are required for a certificate.

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

¹ An Electronics/Electrical certificate must be earned before taking these courses.

Automotive Transmissions/ Transaxles Certificate

This short-term certificate program introduces students to the theory and operation of both manual and automatic transmissions/transaxles, differential, drive line, and constant velocity joints. Students learn the principles of steering and suspension systems including MacPherson struts and four-wheel alignment, late model transmissions, transaxles and sub assemblies. Practical applications include the diagnosis and repair of all types of transmissions/transaxles components.

| AUTO | 113 | Theory of Transmissions/Transaxles |
|------|-----|---|
| AUTO | 114 | Diagnosis of Transmissions/Transaxles 4 |
| AUTO | 129 | Principles of Automatic Transmissions4 |
| AUTO | 130 | Service and Repair of Automatic Transmissions 5 |
| | | Total16 |

16 credits are required for a certificate.

Toyota T-TEN Option

FIRST YEAR First Quarter

| AUTO | 103 | Tire Service and Repair | . 2 |
|---------|-------|--|-----|
| AUTO | 104 | Lube Service | . 2 |
| AUTO | 105 | Toyota Information Systems | |
| AUTO | 106 | Pre-Delivery Inspections | |
| AUTO | 107 | Electrical Circuitry Theory | . 5 |
| ISFTY | 111 | Industrial First Aid1 | |
| | | Total | 18 |
| Second | Qua | rter | |
| APLED | 112 | Applied Mathematics ¹ | . 5 |
| AUTO | 123 | Advanced Diagnosis of Electronics | |
| AUTO | 124 | Electrical Wiring Diagrams | |
| AUTO | 125 | Engine Theory | . 4 |
| AUTO | 126 | Engine Repair Applications | |
| | | Total | 21 |
| Third Q | uart | er | |
| AGGEN | 158 | Oxy-acetylene Welding | . 1 |
| AUTO | 204 | Introduction to ABS and Traction Control | . 5 |
| AUTO | 225 | Heating and Air Conditioning | . 5 |
| AUTO | 236 | Electrical and Electrical Circuit - Toyota T-TEN | |
| CIS | 105 | Computer Fundamentals for Vocations I ¹ | |
| | | Total | 21 |
| SECON | D YE | AR | |
| Fourth | | | |
| APLED | 121 | Applied Written Communication ¹ | 4 |
| AUTO | 201 | Theory of Brakes | . 5 |
| AUTO | 202 | Brake Applications | |
| AUTO | 203 | Principles of Suspension Systems | |
| AUTO | 205 | Introduction to ABS and Traction | |
| AUTO | 209 | Heating and Air Conditioning | |
| | | Total | 20 |
| Fifth Q | uarte | r | |
| APLED | 125 | Employment Preparation ¹ | . 3 |
| AUTO | 206 | Theory of Engine Performance | |
| AUTO | 207 | Engine Performance Diagnostics | . 4 |
| AUTO | 208 | Service and Repair of Engine Performance | |
| AUTO | 219 | Hybrid Service and Repair | |
| | | Total | 18 |
| Sixth Q | uarte | er | |
| AUTO | 217 | Steering Systems and Alignment | . 3 |
| AUTO | 218 | Manual Transmissions | . 4 |
| AUTO | 223 | Automatic Transmissions | |
| AUTO | 224 | Automatic Transmission Repair | . 2 |
| AUTO | 226 | Advanced Emission Service and Repair | |
| | | Total | 15 |
| 440 | 1 | . 16 | |

113 credits are required for an A.A.S. degree.

AVIATION MAINTENANCE TECHNOLOGY

A.A.S. Degree, 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 A.A.S. 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.

FIRST YEAR

| FIRST Q | uarte | r | | | | | |
|---------|-------|---|--|--|--|--|--|
| ARCFT | 115 | Introduction to General Aircraft Maintenance 5 | | | | | |
| ARCFT | 116 | Introduction to General Aircraft Maintenance Shop 4 | | | | | |
| ARCFT | 117 | General Aircraft Maintenance | | | | | |
| ARCFT | 118 | General Aircraft Maintenance Shop4 | | | | | |
| MATH | 100 | Vocational Technical Mathematics ¹ | | | | | |
| | | Total 21-22 | | | | | |
| Second | l Qua | rter | | | | | |
| ARCFT | 119 | Advanced General Aircraft Maintenance5 | | | | | |
| 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 | | | | | |
| | | Total 22-23 | | | | | |
| Third Q | uart | er | | | | | |
| ARCFT | 137 | Airframe Structures | | | | | |
| ARCFT | 138 | Airframe Structures Shop 5 | | | | | |
| ARCFT | 139 | Airframe Systems | | | | | |
| ARCFT | 140 | Airframe Systems Shop | | | | | |
| | | Related Education Requirement ² | | | | | |
| | | Total 23-24 | | | | | |
| SECON | D YE | AR | | | | | |
| Fourth | | | | | | | |
| ARCFT | 235 | Advanced Airframe Systems 5 | | | | | |
| ARCFT | 236 | Advanced Airframe Systems Shop | | | | | |
| ARCFT | 237 | Integrated Airframe Powerplant Maintenance 5 | | | | | |
| ARCFT | 238 | Integrated Airframe Powerplant Maintenance Shop 5 | | | | | |
| | | Related Education Requirement ² | | | | | |
| | | Total | | | | | |
| Fifth Q | uarte | r | | | | | |
| ARCFT | 245 | Aircraft Engines I | | | | | |
| ARCFT | 246 | Aircraft Engines Shop I | | | | | |
| ARCFT | 247 | Aircraft Engines II | | | | | |
| ARCFT | 248 | Aircraft Engines Shop II | | | | | |
| | | Total20 | | | | | |
| Sixth Q | uarto | er | | | | | |
| ARCFT | 255 | Powerplant Systems and Components I 5 | | | | | |
| ARCFT | 256 | Powerplant Systems and Components I Shop 5 | | | | | |
| ARCFT | 257 | Powerplant Systems and Components II | | | | | |
| ARCFT | 258 | Powerplant Systems and Components II Shop 5 | | | | | |
| | | Total | | | | | |
| Sevent | h Ou | arter³ | | | | | |
| ARCFT | 275 | Theory and Review-Airframe or Powerplant 1-10 | | | | | |
| ARCFT | 276 | Airframe or Powerplant Shop 1-10 | | | | | |
| | | Total | | | | | |
| | | | | | | | |

129-149 credits are required for an A.A.S. degree.4

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

¹ This course may be substituted with any course from the department preapproved substitution list or any related course or combination of courses approved by the instructional dean.

² This course may be chosen from a preapproved departmental elective list or

any related course or combination of courses approved by the instructional dean

- 3 Available for students who have not accumulated 1900 hours or satisfied other FAA requirements.
- ⁴ A subtotal of 12 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 A.A.S. degree.

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.

| ARCFT ARCFT ARCFT | 115 116 117 118 | 7 General Aircraft Maintenance | | | |
|---|--------------------------|---------------------------------------|--------|--|--|
| | Total | | | | |
| ARCFT ARCFT ARCFT ARCFT | 119 120 135 136 | Advanced General Aircraft Maintenance | 4 5 | | |
| MATH 100 Vocational Technical Mathematics (REQUIRED BY FAA) | | | | | |

FAA requires 400 hours of attendance.

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.

| ARCFT | 137 | Airframe Structures | |
|-------|-----|---|--|
| ARCFT | 138 | Airframe Structures Shop 5 | |
| ARCFT | 139 | Airframe Systems5 | |
| ARCFT | 140 | Airframe Systems Shop 5 | |
| | | Total20 | |
| 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 | |
| | | Total20 | |
| | | | |

40 credits are required for a certificate.

FAA requires 750 hours of attendance.

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.

| ARCFT | 245 | Aircraft Engines I |
|-------|-----|---|
| ARCFT | 246 | Aircraft Engines Shop I |
| ARCFT | 247 | Aircraft Engines II |
| ARCFT | 248 | Aircraft Engines Shop II 5 |
| | | Total20 |
| ARCFT | 255 | Powerplant Systems and Components I 5 |
| ARCFT | 256 | Powerplant Systems and Components I Shop 5 |
| ARCFT | 257 | Powerplant Systems and Components II 5 |
| ARCFT | 258 | Powerplant Systems and Components II Shop 5 |
| | | Total |
| | | |

40 credits are required for a certificate. FAA requires 750 hours of attendance.

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.

A 2.0 grade or higher must be maintained in all APLED, BAK and HM courses for the certificate.

First Quarter

| 11136 4 | | • |
|---------|------|--|
| BAK | 101 | Introduction to Baking and Pastries |
| BAK | 110 | Artisan Breads 5 |
| BAK | 111 | Pastries |
| HM | 112 | Hospitality Mathematics ¹ |
| | | Total16 |
| Second | Qua | rter |
| BAK | 120 | Special Occasion Cakes |
| BAK | 121 | Tortes and Gateau |
| BAK | 130 | Sculptured Cakes |
| BAK | 131 | Rolled Fondant |
| BAK | 248 | Wedding Cakes |
| HM | 115 | Food Sanitation |
| | | Total |
| Third Q | uart | er |
| APLED | 121 | Applied Written Communication ¹ 4 |
| APLED | 123 | Leadership Skills for Business and Industry ¹ 3 |
| BAK | 266 | Cooperative Education Seminar AND |
| BAK | 267 | Cooperative Education Work Experience 6 |
| | | Total |
| | | |

45 credits are required for the certificate.

BIOMEDICAL EQUIPMENT TECHNICIAN

A.A.S. Degree: 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.

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

| FI | RS | ΤY | ΈΑ | ١R |
|----|----|----|----|----|
| | | | | |

| FIRST Y | EAR | |
|----------------------|-----------------|--|
| First Q | uarte | r |
| ELECT | 110 | Computer Fundamentals for Electronics 2 |
| ELECT | 111 | Fundamentals of DC/AC Circuits |
| ELECT | 112 | DC/AC Circuit Lab |
| ELECT | 113 | DC/AC Circuit Math |
| | | Total19 |
| Second | Qua | rter |
| BIOEQ | 199 | Medical Terminology for Biomedical Equipment Technology ¹ |
| ELECT | 121 | Advanced DC/AC Circuits9 |
| ELECT | 122 | Advanced DC/AC Circuits Lab |
| ELECT | 123 | Advanced DC/AC Circuit Math 5 |
| | | Total |
| Third Q | uart | er |
| ELECT | 136 | Solid State Devices and Circuits |
| ELECT | 137 | Solid State Devices and Circuits/Lab 4 |
| ELECT | 138 | Linear Devices and Circuits 5 |
| ELECT | 139 | Linear Devices and Circuits Lab4 |
| PHYS | 100 | Introductory Physics ² |
| | | Total |
| SECON | D YE | AR |
| Fourth | Quar | rter |
| CHEM | 161 | General Chemistry for Health Sciences ² |
| ELECT | 211 | Digital Concepts |
| ELECT | 212 | Digital Concepts Lab4 |
| ELECT | 213 | Basic Computer Systems |
| ELECT | 214 | Basic Computer Systems Lab |
| | | Total23 |
| Fifth Q | | |
| APLED | 125 | Employment Preparation ³ |
| ELECT | 221 | Communication Fundamentals |
| ELECT | 222 | Communication Fundamentals Lab |
| ELECT ELECT | 223 224 | Advanced Computer Systems |
| ELECT | 22 4 | Total |
| cival o | | |
| Sixth Q APLED | • | Applied Written Communication ^{2,3} 4 |
| BIOEO | 242 | Physiology for Biomedical Equipment Technology 3 |
| BIOEQ | 251 | Biomedical Instrumentation Patient Monitoring and |
| DICLQ | 201 | Clinical |
| BIOEQ | 252 | Biomedical Instrumentation Laboratory 6 |
| ~ | | Total |
| Sevent | h Ou | arter |
| BIOEQ | 271 | Biomedical Equipment Technology Clinical Rotation . 10 |
| BIOEQ | | Biomedical Seminar |
| | | Total |
| 144 cred | lits an | e required for the A.A.S. degree. |
| | | |
| ¹ This co | rurse 1 | s offered winter quarter only. |

- ¹ This course is offered winter quarter only.
- ² It is recommended that students starting fall quarter should take APLED 121, CHEM 161 and PHYS 100 during summer quarter to lighten their credit load for the third and fourth quarters.
- 3 These courses may be substituted by any course or combination of courses approved by the instructional dean.

BIOTECHNOLOGY

A.A.S. Degree: SCC

Biotechnology is a fascinating and rapidly changing field. Many of the techniques used in the industry today were known only to a few scientists in the world less than a decade ago. Scientists working in research and industry use biotechnology techniques to uncover the molecular basis for human diseases and for the production of new drugs and treatments, the enhancement of agricultural products, and the remediation of environmental problems. The SCC biotechnology program prepares students for work in commercial or public research laboratories that rely on this cutting-edge technology. The curriculum

provides a basic foundation in science disciplines including chemistry, biology, microbiology, genetics and immunology, as well as coursework in communications, mathematics and computer science. Students will build a working knowledge of molecular biology, recombinant DNA and tissue cultures through a broad-based program of lectures, hands-on laboratory experiences and work-based learning opportunities.

Job opportunities in biotechnology are increasing rapidly as new technologies are increasing, especially in the areas of medicine and agriculture. The completion of the human genome sequence promises to revolutionize the relationship between biotechnology and medicine, and similar results are expected in agriculture from the sequencing of genomes of major crop species. The biotechnology industry has more than tripled in size between 1992 and 2000. The Spokane region is home to an emerging biotechnology cluster with more than 50 biotech and biomedical firms (Spokane Area Economic Development Council) and is adjacent to a national biotechnology center in the Puget Sound region.

Entry-level salaries range from \$20,000 to \$25,000 depending on education and experience. With experience, lab technicians may be promoted to supervisory positions. Positions available to graduates include laboratory assistant, laboratory specialist or research technologists. Potential employers include universities, biotechnology companies, pharmaceutical labs, fisheries and natural resource management organizations.

FIRST YEAR

| First Q | uarte | r |
|-----------------|------------|---|
| BIOL | 101 | General Biology |
| BIOL | 120 | Scientific Investigation |
| ENG | 101 | English Composition |
| Cocomd | | |
| Second BIOTC | 120 | Cell Culture Techniques |
| BIOTC | 120 | Good Manufacturing Practices |
| BOT | 111 | Botany: Plant Structure and Function ¹ 0-5 |
| SPCH | 220 | Intercultural Communication 5 |
| | | Total11-16 |
| Third Q | Quart | |
| BIOL | 233 | Genetics |
| BIOTC BIOTC | 129 201 | Introduction to Protein Chemistry |
| MATH | 111 | Pre-Calculus I |
| | | Total |
| Fourth | Quar | rter |
| BIOTC | 240 | Biotechnology Internship ² |
| | | Total |
| SECON | D YE | AR |
| Fifth Q | uarte | r |
| BIOTC | 251 | Recombinant DNA 5 |
| CHEM | 141 | Advanced General Chemistry |
| PHYS | 101 | General Physics |
| Sixth Q | uart | |
| BIOTC | 220 | Instrumental Analysis |
| BIOTC | 261 | Fermentation |
| CHEM | 142 | Advanced General Chemistry5 |
| MBIOL | 231 | General Microbiology |
| | | Total |
| Sevent | - | |
| BIOTC | 237 289 | Introduction to Immunology |
| CHEM | 143 | Advanced General Chemistry |
| ZOOL | 122 | Vertebrate Zoology ¹ |
| | | Total11-18 |
| 00 100 | aradit. | are required for an A.A.S. degree |

90-100 credits are required for an A.A.S. degree.

IMPORTANT: Courses with the BIOTC prefix are NOT generally transferable to four-year institutions. Articulation agreements are currently being negotiated with universities in this area.

- ¹ Students may choose between BOT 111 or ZOOL 122 but are encouraged to take both
- ² Permission of the instructor is required for these courses.

BRIEF COMPUTING-SOFTWARE APPLICATIONS

CERTIFICATE: SFCC

The computing-software applications certificate program is designed to meet the growing need for computer skills. Students and members of the business community need computer training for current and future employment. The program is designed to be "generic," which supplements a two-year degree program or as a stand-alone certificate for those already in the working world. The student must have career goals or a profession in which to apply the computer skills gained through the certificate program.

The primary goal of the certificate program is to teach students to use the computer for daily business operations. Special attention is given to "hands-on" experience using popular software applications.

The certificate indicates to the employer that the certificate holder has the skills to effectively utilize a computer.

First Quarter

| | | Total |
|-------|-----|-------------------------------|
| IS | 160 | Internet Fundamentals |
| IS | | Programming Fundamentals |
| IS | 143 | Operating System Fundamentals |
| IS | | Hardware Fundamentals |
| CAPPS | | PowerPoint |
| CAPPS | 114 | Access |
| CAPPS | 112 | Excel |
| CAPPS | 110 | Word |
| CAPPS | 104 | Windows |

14 credits are required for a certificate.

Three elective credits required from any CAPPS courses. Credits used for required core curriculum cannot be used as electives.

BUSINESS, GENERAL

A.A.S. Degree: SCC, SFCC

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 distribution, sales, 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 at SCC only.

A.A.S. Degree-SCC Program Outline Basic Business Core

| ACCI | 151 | College Accounting I or equivalent ¹ |
|-------------|-----|--|
| CIS | 110 | Introduction to Computer Applications ² |
| ECON | 100 | Fundamentals of Economics or higher 5 |
| ENG | 101 | English Composition |
| ENG | 109 | Speech Composition AND |
| SPCH | 101 | Introduction to Speech Communication OR |
| SPCH | 201 | Speech for Business and Professions 3-5 |
| | | |

| ENG | 201 | Advanced English Composition OR |
|--------------|------------|---|
| ENG | 205 | Technical Writing OR |
| BT | 272 | Business Correspondence ³ 5 |
| GBUS | 101 | Introduction to Business |
| GBUS GBUS | 104 280 | Business Mathematics ⁴ |
| MMGT | 100 | Supervised Volunteer Experience |
| MMGT | 101 | Principles of Management |
| | | Total 49-51 |
| Genera | l Bus | siness Option Requirements |
| MMGT | | Marketing 5 |
| RECON | IMEN | IDED BUSINESS ELECTIVES: |
| | | Business Electives (any approved business courses) ⁵ |
| 90-92 cı | redits | are required for an A.A.S. degree. |
| | | ive may be chosen for five credits. Other business courses |
| | | ed with approval of the department advisor. |
| | | nay be taken in place of ACCT 151. |
| | | skills are required. |
| | | orerequisite. r proficiency test is required. |
| | | s strongly recommended. |
| ΔΔς | De | gree-SFCC Program Outline |
| FIRST | | gree or ee'r rogram oadmie |
| First Q | | |
| ВТ | 100 | Keyboarding for Computers ¹ |
| BT | 107 | Business Communications ² |
| GBUS | 101 | Introduction to Business |
| | | Business Elective ³ |
| | | Total |
| Second | l Qua | rter |
| BT | 108 | Business Communications ² |
| GBUS | 103 | Basic Business Math and Electronic Calculators 5 |
| GBUS | 108 | eBusiness |
| | | Total |
| Third C |)uart | er |
| ВТ | 272 | Business Correspondence 5 |
| ENG | 109 | Speech Composition AND |
| SPCH | 101 | Introduction to Speech Communication 5 Computer Software Elective ⁴ |
| | | Business Elective ³ |
| | | Business OR Non-business Elective |
| | | Total 15 |
| SECON | D YE | AR |
| Fourth | Quar | |
| ACCT | 101 | Principles of Accounting ⁵ |
| ECON | 201 | Introduction to Macroeconomics |
| | | Total |
| Fifth Q | uarte | |
| ACCT | 121 | Payroll Procedures |
| ACCT | 122 | Business Tax Accounting |
| GBUS | 205 | Business Law |
| | | Business Electives ³ |
| Sixth Q |)uart | |
| GBUS | 280 | Human Relations in Business |
| | | Business Electives ³ 6 |
| | | General Elective |
| | | Total |
| 90 credi | ts are | required for an A.A.S. degree. |

- ¹ BT 101 may be substituted.
- ² ENG 101 may be substituted for BT 107 and 108 depending on the student's educational objectives.

- ³ All general business students must take a minimum of 19 credits of business
- ⁴ Computer software electives may be chosen from the following: CAPPS
- ⁵ ACCT 103 and 104 may be taken in place of ACCT 101.

BUSINESS AND SOFTWARE APPLICATIONS

Certificate: SFCC

The Business and Software Applications certificate-a three-quarter program of study-helps students develop math and communication skills required in a business environment. In addition, students learn computer applications and human relations skills. This certificate is intended to provide students with the essential skills and knowledge required for entry-level positions in business.

First Quarter

GBUS

| BT | 100 | Keyboarding for Computers AND |
|--------|-------|--------------------------------------|
| CAPPS | 110 | Word OR |
| BT | 101 | Keyboarding 5 |
| BT | 107 | Business Communications |
| GBUS | 102 | Math Skills for Business |
| IS | 120 | Business Computer Use OR |
| IS | 160 | Internet Fundamentals 1-3 |
| | | Total 12-14 |
| Second | l Qua | rter |
| ACCT | 103 | Fundamental Bookkeeping Procedures 3 |
| BT | 108 | Business Communications |

Third Quarter

| | | Total 12 | 1/1 |
|-------|-----|--------------------------------|-----|
| MMGT | 223 | Customer Service | 3-5 |
| GBUS | 280 | Human Relations in Business OR | |
| GBUS | 108 | eBusiness | 2 |
| CAPPS | 114 | Access | 2 |
| BT | 272 | Business Correspondence | 5 |
| | | | |

40-44 credits are required for a certificate.

BUSINESS OCCUPATIONS

Certificate: SCC, SFCC

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 A.A.S. degree programs. All students graduating from this program must have a minimum grade of 2.0 on each of the Accounting, Economics and General Business required courses at SCC only. Students must also have a 2.0 cumulative minimum grade point average on all required courses in the program at SCC only.

| ACCT | 151 | College Accounting I or higher ¹ |
|-------------|-----|--|
| BT | 101 | Keyboarding ² 0-5 |
| CIS | 110 | Introduction to Computer Applications OR |
| CS | 101 | Computer Literacy OR |
| IS | 120 | Business Computer Use |
| GBUS | 101 | Introduction to Business |
| GBUS | 102 | Math Skills for Business OR |
| GBUS | 103 | Basic Business Math and Electronic Calculators 3-5 |
| GBUS | 280 | Human Relations in Business OR |
| MMGT | 101 | Principles of Management 5 |
| | | Business Electives |
| | | Written Communications - List A 5-6 |
| | | Speech Communications - List B ³ 3-5 |
| | | Total 45-58 |
| | | |

LIST A:

| BT | 107 | Business Communications |
|-----------------------|------------|---|
| BT | 108 | Business Communications |
| BT | 109 | Business Communications 5 |
| BT | 272 | Business Correspondence 5 |
| ENG | 101 | English Composition |
| ENG | 201 | Advanced English Composition 5 |
| | | |
| LIST B: | | |
| LIST B: ENG | 109 | Speech Composition AND |
| | | Speech Composition AND Introduction to Speech Communication 5 |
| ENG | 101 | 1 |
| ENG SPCH | 101 102 | Introduction to Speech Communication 5 |

45-58 credits are required for a certificate.

- ¹ ACCT 101 may be taken in place of ACCT 151.
- ² Students with keyboarding experience may waive this requirement by passing a department proficiency test at SCC or by obtaining a waiver from the office technology department chair at SFCC.
- ³ Additional courses in written communications may be substituted for the speech communication list at SFCC only.

CARPENTRY AND CABINETRY

A.A.S. Degree, Certificate: SCC

Carpentry is a rewarding career ideally suited to the person who has an interest in and aptitude for working with tools and materials. The trade requires the development of manual skills: skills that involve both thinking and doing. Carpentry also requires a thorough knowledge of materials and methods used in construction work.

The carpenter belongs to the largest group of building trade workers. Job opportunities encompass everything from new residential or commercial construction to remodeling and alteration, maintenance, and building repair work.

FIRST YEAR

CARP

253

254

Sixth Quarter²

CARP

CARP

CARP

| First Q | uarte | r |
|---------|-------|--|
| APLED | 121 | Applied Written Communication ¹ 4 |
| CARP | 113 | Carpentry Math |
| CARP | 114 | Transit Layout and Design |
| CARP | 115 | Basic Construction Systems |
| | | Total20 |
| Second | l Qua | rter |
| CARP | 123 | Cabinetry Math |
| CARP | 124 | Cabinet Layout and Design 5 |
| CARP | 125 | Cabinet Construction |
| CARP | 126 | Cabinet Finishing |
| ISFTY | 111 | Industrial First Aid |
| | | Total |
| Third C |)uart | er |
| CARP | 133 | Introduction to Estimating |
| CARP | 134 | Introduction to Trim and Exterior Finish |
| CARP | 135 | Practical Construction Applications 8 |
| CARP | 136 | Residential Blueprint Reading 2 |
| | | Total 16 |
| SECON | D YE | AR |
| Fourth | Quar | ter |
| APLED | 123 | Leadership Skills for Business and Industry ¹ 3 |
| CARP | 243 | Plan Reading and Material Estimation |
| CARP | 244 | Practical Framing Applications |
| MET | 103 | Introduction to Computers for Technology |
| | | Total22 |
| Fifth Q | uarte | r |
| ARCHT | 125 | Residential Building Codes 2 |

Exterior Application Methods......9

| CARP | 264 | Total |
|---------|-------|--|
| Sevent | h Oua | arter |
| CARP | 223 | Advanced Cabinetry Math |
| CARP | 224 | Advanced Cabinet Layout and Design 5 |
| CARP | 225 | Advanced Cabinet Construction 5 |
| CARP | 226 | Advanced Cabinet Finishing |
| | | Total 16 |
| Certif | icat | e |
| First Q | uarte | r' |
| APLED | 121 | Applied Written Communication ¹ 4 |
| CARP | 113 | Carpentry Math |
| CARP | 114 | Transit Layout and Design 4 |
| CARP | 115 | Basic Construction Systems |
| | | Total |
| Second | Qua | rter |
| APLED | 123 | Leadership Skills for Business and Industry ⁴ 3 |
| CARP | 123 | Cabinetry Math |
| CARP | 124 | Cabinet Layout and Design 5 |
| CARP | 125 | Cabinet Construction |
| CARP | 126 | Cabinet Finishing |
| ISFTY | 111 | Industrial First Aid |
| | | Total |
| Third Q | | |
| CARP | 133 | Introduction to Estimating |
| CARP | 134 | Introduction to Trim and Exterior Finish |
| CARP | 135 | Practical Construction Applications |
| CARP | 136 | Residential Blueprint Reading |
| | | Total |
| Fourth | • | |
| CARP | 223 | Advanced Cabinetry Math |
| CARP | 224 | Advanced Cabinet Layout and Design |
| CARP | 225 | Advanced Cabinet Construction |
| CARP | 226 | Advanced Cabinet Finishing |
| | _ | Total |
| 112-128 | credi | ts are required for an A.A.S. degree and 57-73 credits are |

112-128 credits are required for an A.A.S. degree and 57-73 credits are required for a certificate.

- ¹ This related education requirement may be met by any course or combination of courses approved by the instructional dean.
- ² CARP 266 (2 credits) and (14 credits), or 288 (no seminar) may be substituted for CARP 263 and 264 with permission of the instructor.
- 3 These quarters are optional for both the certificate and the A.A.S. degree.
- ⁴ Required only for those students completing the certificate program.

Basic Carpentry Certificate

This program offers a one-quarter certificate in basic cabinetry. Students are introduced to fundamental terminology and basic math needed in the design, layout, and construction of residential cabinetry. Other topics covered in basic cabinetry are interior cabinet finishes, including stain application and spraying water-based lacquers using a HVLP system. Emphasis is placed on the safe and proper use of both stationary and portable power equipment.

Students may enter the program winter quarter only. Enrollment is limited to space available; preference is given to those students working toward their A.A.S. degree or one-year certificates.

| CARP | 123 | Cabinetry Math |
|------|-----|-----------------------------|
| CARP | 124 | Cabinet Layout and Design 5 |
| CARP | 125 | Cabinet Construction |
| CARP | 126 | Cabinet Finishing |
| | | Total |

112 credits are required for an A.A.S. degree and 56 credits are required for a certificate and 16 credits are required for a basic carpentry certificate.

Advanced Cabinetry Certificate

This cabinetry program is designed for students who wish to obtain advanced skills in cabinetry. The coursework provides both basic and advanced projects that require additional skills and techniques not offered in the basic program. Permission of the instructor is required for admission to the program.

| First Qu | ıarte | r |
|--------------------|-------------------|------------------------------|
| CARP | 123 | Cabinetry Math |
| CARP | 124 | Cabinet Layout and Design 5 |
| CARP | 125 | Cabinet Construction |
| CARP | 126 | Cabinet Finishing |
| | | Total16 |
| | | |
| Second | Qua | rter |
| Second CARP | - | rter Advanced Cabinetry Math |
| | 223 | |
| CARP | 223 224 | Advanced Cabinetry Math |
| CARP CARP | 223 224 225 | Advanced Cabinetry Math |

32 credits are required for a two-quarter certificate.

CERTIFIED PROFESSIONAL SECRETARY

Credit by Nontraditional Means: SCC, SFCC

Administrative assistants today are rewarded for their efforts to develop a broad knowledge of their own field and the business world by being awarded the title Certified Professional Secretary (CPS). This title is earned by those who meet the qualifications established by the Institute for Certification, an organization sponsored by International Association of Administrative Professionals.

Students who complete a two-year post secondary administrative assistant program in an accredited college such as SCC or SFCC may take the examination before they fulfill work experience requirements which are outlined as follows:

- Students who complete a two-year program in an accredited school and pass the CPS examination must complete three years of verified office experience.
- Students who complete a bachelor's or advanced degree program and pass the CPS examination must complete two years of verified administrative assistant experience.

Successful completion of the work experience requirements and the examination will permit candidates to receive the CPS certification.

Students who have successfully completed 15 to 30 quarter hours of credit at a college within Community Colleges of Spokane may be granted further credit of up to 60 quarter hours upon completing the requirements of the CPS examination.

Upon completion of the 15-credit-hour residency requirement, 30 credits may be granted. Upon completion of the 30-credit-hour residency requirement, 60 credits may apply toward the requirements for an associate in applied science or associate of arts degree at either SCC or SFCC. The designation as a certified professional secretary may permit specific credit to be given, up to 60 credits for the following courses:

| ch | | |
|-------------|-----|--|
| ACCT | 101 | Principles of Accounting |
| ACCT | 102 | Principles of Accounting 5 |
| BT | 101 | Keyboarding5 |
| BT | 102 | Document Processing 5 |
| BT | 103 | Formatting |
| BT | 107 | Business Communications AND |
| BT | 108 | Business Communications OR |
| BT | 109 | Business Communications 5-6 |
| BT | 165 | Word Processing |
| BT | 201 | Information Processing 5 |
| BT | 231 | Office Procedures5 |
| BT | 233 | Directed Office Practice |
| BT | 240 | Administrative Office Procedures8 |
| BT | 255 | Business Productivity Tools |
| BT | 260 | Administrative Office Management5 |
| BT | 272 | Business Correspondence 5 |
| CAPPS | 110 | Word |
| CIS | 101 | Technical Introduction to Computer Information |
| | | Systems OR |
| CIS | 110 | Introduction to Computer Applications 5 |
| CIS | 255 | BASIC Language for Business 5 |
| ECON | 201 | Introduction to Macroeconomics 5 |

| ECON | 202 | Introduction to Microeconomics 5 |
|-------------|-----|--|
| GBUS | 101 | Introduction to Business |
| GBUS | 103 | Basic Business Math and Electronic Calculators 5 |
| GBUS | 104 | Business Mathematics |
| GBUS | 205 | Business Law |
| GBUS | 280 | Human Relations in Business |
| MMGT | 231 | Human Resource Management 5 |

The request for granting of these credits by nontraditional means should be directed to the vice president of student services at SCC or SFCC.

CHEMICAL DEPENDENCY PROFESSIONAL STUDIES

A.A.S. Degree, Certificate: SFCC

The chemical dependency professional studies program is designed to provide a two-year educational training program for people who are currently employed in a chemical dependency treatment program, or are interested in obtaining employment in the chemical dependency field.

The chemical dependency professional studies program includes classes in substance drug abuse, social services, counseling skills and other related topics that help individuals become effective with people who have drug problems. In addition, the training program includes practical fieldwork experience that provides students an opportunity to apply what has been learned.

For current certification requirements for alcohol/drug counseling in Washington state, please contact the program coordinator at Spokane Falls Community College or the Department of Health, CDP Division, Olympia, WA.

FIRST YEAR

| First Qu | ıarte | r |
|----------------------------------|--------------------------|---|
| HS HS HSSUB IS | 102 136 131 120 | Introduction to Human Services. 5 Improving Interpersonal Communication 5 Survey of Chemical Dependency 3 Business Computer Use 3 Total 16 |
| Second | 0 | |
| ENG | 101 | English Composition |
| HSSUB HSSUB HSSUB | 172 179 277 | Chemical Dependency in the Family |
| Third Q | uart | |
| HSSUB HSSUB HSSUB PSYCH | 141 142 176 101 | Law and Chemical Dependency Professionals |
| SECON | D YE | |
| Fourth | | |
| GBUS HS HSSUB HSSUB | 102 281 182 279 | Math Skills for Business |
| Fifth Q | uarte | |
| HS HS HSSUB | 221 282 | Treatment Theories in Human Services 5 Practicum II 5 Current Issues in Chemical Dependency 5 Total 15 |
| Sixth Q | uarto | er |
| HS HSSUB HSSUB PSYCH | 283 275 280 | Practicum III |
| 91 credit | ts are | required for an A.A.S. degree. |
| | | |

Certificate

| HS | 281 | Practicum I | 5 |
|--------------|-----|--|---|
| HS | 282 | Practicum II | 5 |
| HS | 221 | Treatment Theories in Human Services OR | |
| HSSOC | 221 | Treatment Theories in Human Services | 5 |
| HSSUB | 141 | Law and Chemical Dependency Professionals | 2 |
| HSSUB | 142 | Ethics in Chemical Dependency | 2 |
| HSSUB | 172 | Chemical Dependency in the Family | |
| HSSUB | 176 | Chemical Dependency Counseling Techniques | 5 |
| HSSUB | 179 | HIV/AIDS and Chemical Dependency | 2 |
| HSSUB | 182 | Cultural Diversity in Addiction Counseling | 2 |
| HSSUB | 275 | Physiological Actions of Alcohol and Drugs | 5 |
| HSSUB | 277 | Group Process in Chemical Dependency Treatment | 5 |
| HSSUB | 279 | Case Management of Chemically Dependent Client | 3 |
| HSSUB | 280 | Advanced Case Management | 3 |
| HSSUB | 290 | Current Issues in Chemical Dependency | 5 |
| PSYCH | 101 | Introduction to Psychology | 5 |
| PSYCH | 210 | Developmental Psychology | 5 |
| | | Total6 | |
| | | | |

62 credits are required for a certificate.

CHIROPRACTIC ASSISTANT PROGRAM

Certificate: SCC

The chiropractic assistant certificate program prepares students for positions in the chiropractic office field as receptionists and chiropractic billing clerks with the ability to communicate with and answers questions from chiropractic patients about their care and the chiropractic philosophy.

Admission Requirements:

- Keyboarding skills: 40 wpm with six or fewer errors completed at the SCC testing center or enrollment in BT 101 or 102.
- Current first aid/CPR card or successful completion of ISFTY 111 or equivalent.
- Students with ASSET scores below 30 or Compass test scores below 43 must successfully complete BT 151 during the first quarter.

First Quarter

MSEC

| | | - | |
|-------------|-------|---|---|
| BT | 090 | Basic Grammar for Business II | 5 |
| MSEC | 101 | Medical Terminology and Anatomy | 5 |
| MSEC | 108 | Medical Office Computing | |
| | | Total | |
| Second | l Qua | rter | |
| ACCT | 151 | College Accounting I | 5 |
| BT | 231 | Office Procedures | |
| MSEC | 102 | Medical Terminology and Anatomy | 5 |
| MSEC | 123 | Medical Office Coding | 5 |
| | | Total | 0 |
| Third Q | Quart | er | |
| GBUS | 103 | Basic Business Math and Electronic Calculators | 5 |
| MSEC | 121 | Medical Office Reception | 5 |
| MSEC | 124 | Medical Office Insurance Billing | 5 |
| MSEC | 125 | Medical Office Bookkeeping | 5 |
| | | Total2 | 0 |
| Fourth | Quar | ter | |
| BT | 160 | Job Preparation Techniques | 3 |
| MSEC | 120 | Human Relations/Communications for Medical Office | |
| | | Personnel | 5 |
| MSEC | 284 | Medical Internship Seminar | 1 |
| 1.0000 | 200 | | _ |

67 credits are required for a certificate with a minimum passing grade of 2.0 in each course.

CIVIL ENGINEERING TECHNOLOGY

A.A.S. Degree: SCC

The civil engineering technology program is designed to provide a comprehensive, well balanced study in applied and related science concerning the engineering and construction industry. This course prepares students in the basic fundamentals of construction techniques, materials testing, surveying, estimating and quantity take-off, plan reading, drafting (manual and computer aided), office and business procedures, planning of construction work, and computer-aided design.

FIRST YEAR

| First Qu | uarte | r |
|---------------------------------|---|--|
| CET CET CET CIS | 111 112 113 105 | Technical Math 8 Plan Reading 4 Drafting 4 Computer Fundamentals for Vocations I¹ 3 Total 19 |
| Second | Qua | rter |
| CET CET CET GEOL | 121 122 123 110 | Applied Technical Math. 7 Surveying Theory |
| Third Q | uart | |
| CET CET CET | 133 136 161 | Field Surveying 8 Statics 6 Land Surveying 5 Total 19 |
| SECON | D YE | AR |
| Fourth | Quar | rter |
| CET CET CET ENG | 242243253101 | Advanced Surveying 6 Advanced Civil Computer Aided Design 6 Strength of Materials 5 English Composition ¹ 5 Total 22 |
| Fifth Q | uarte | |
| APLED CET CET CET | 125 252 254 257 | Employment Preparation¹ 3 Hydraulics I 6 Structures 5 Construction Materials I 6 Total 20 |
| Sixth Q | uarte | |
| CET CET CET CET CET | 230 232 256 258 261 264 | Construction Process I. 3 Construction Process II ² 2 Hydraulics II. 3 Construction Materials II ² 3 Concrete 3 Design Project ² 3 Total 17 |
| 120 cred | lits are | e required for an A.A.S. degree. |

- ¹ May be substituted with any course of combination of courses approved by the instructional dean.
- ² May be substituted with CET 266 and 267 or 265, 288 or 291 with permission of the instructor.

COMPUTER AIDED DESIGN AND DRAFTING

A.A.S. Degree, Certificate: SCC

The Computer Aided Design and Drafting A.A.S. degree 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 engineering teams for large and small manufacturing firms, consultant engineering firms, testing, and research companies to gain employment as computer aided drafters.

Students not only learn to draft using CAD and Solid Modeling techniques, but also get"hands-on"practical experience in Rapid Prototyping, engineering competitions, 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.

| FIRST Y | EAK | |
|------------|------------|--|
| First Qu | ıarte | r |
| APLED | 112 | Applied Mathematics ^{1, 2} |
| APLED | 121 | Applied Written Communication ¹ 4 |
| MET | 101 | Introduction to Engineering ³ |
| MET | 105 | Basic Blueprint Reading |
| MET | 114 | Engineering Graphics ¹ |
| | | Total |
| Second | Qua | |
| APLED | 123 | Leadership Skills for Business and Industry ¹ 3 |
| MATH | 100 | Vocational Technical Mathematics ⁴ 5 |
| MET | 124 | Engineering Graphics ² |
| MET | 129 | Computer Aided Drafting 5 Total 18 |
| | | |
| Third Q | | |
| MET | 131 | Dimensioning and Tolerancing |
| MET | 132 | Engineering Graphics ³ |
| MET | 135 | Schematics |
| | | Approved Elective ⁵ . 4-5 Total 15-16 |
| | | |
| SECON | D YE | AR |
| Fourth | Quar | ter |
| MET | 241 | CAD Solid Modeling 5 |
| MET | 248 | Mechanical CAD Applications 4 |
| MET | 258 | Schematic CAD Applications 4 |
| | | Approved Electives ⁵ 4-5 |
| | | Total17-18 |
| Fifth Qu | uarte | |
| APLED | 125 | Employment Preparation ¹ |
| MET | 252 | Advanced CAD |
| MET | 259 | Architectural CAD Applications ^{6,7} 4 |
| | | Approved Electives ^{5, 7} 4-5 |
| | | Total16-17 |
| Sixth Q | | |
| MET | 268 | Structural CAD Applications ^{6,7} |
| | | Approved Electives ^{5, 7} |
| | | Total15-17 |
| 99-104 c | redits | s are required for an A.A.S. degree. |
| Certif | icat | • |
| | | |
| FIRST Y | | |
| First Qu | | |
| APLED | 112 | Applied Mathematics ^{1,2} |
| APLED | 121 | Applied Written Communication ¹ |
| MET MET | 101 105 | Introduction to Engineering ³ |
| MET | 114 | Engineering Graphics 1 |
| IVILI | 111 | Total |
| Second | Ous | |
| APLED | 123 | Leadership Skills for Business and Industry ¹ 3 |
| MATH | 100 | Vocational Technical Mathematics ⁴ |
| MET | 124 | Engineering Graphics ² |
| MET | 129 | Computer Aided Drafting |
| | | Total |
| Third Q | uart | er |
| MET | 131 | Dimensioning and Tolerancing |
| MET | 132 | Engineering Graphics 3 |
| MET | 135 | Schematics |
| MET | 259 | Architectural CAD Applications ⁶ 4 |
| | | Total |
| | | |

| SECOND YEAR | CAPPS Elective |
|--|--|
| Fourth Quarter | Total 13 |
| APLED 125 Employment Preparation¹ 3 MET 241 CAD Solid Modeling 5 MET 248 Mechanical CAD Applications6 4 Approved Electives5,7 4 Total 16 | Second QuarterGBUS280Human Relations in Business ORHS136Improving Interpersonal Communication5IS164Network Management5IS244Network Security I5Total15 |
| 67 credits are required for the certificate. | Third Quarter |
| APPROVED GENERAL ELECTIVES: ARCHT 134 Electrical and Mechanical Systems 3 CET 122 Surveying Theory 5 ELMT 243 Introduction to Programmable Controllers 4 MET 127 Manufacturing Processes 3 MET 247 Shop Practices 2 MET 250 Strength of Materials 3 MET 253 Materials Science 2 MET 255 Technical Applications I 2-5 | BT 272 Business Correspondence ¹ 5 IS 228 Internet Servers 4 IS 266 Cooperative Education Seminar 1 IS 267 Cooperative Education Work Experience 2 Total 12 40 credits are required for this certificate. 1 BT 107, 108 or ENG 101 or equivalent are prerequisites. |
| MET 260 Fabrication and Piping CAD Applications 4 MET 264 Technical Applications II 2-5 MET 269 Civil CAD Applications | COMPUTER FORENSICS/NETWORK SECURITY |
| of courses approved by the department dean. This course may be substituted as approved by the CAD instructor or department dean with CET 111 Technical Math | 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 to provide the student with the essential skills, knowledge and experience necessary to deal with computer forensics, and computer/network security. First Quarter IS 132 Computer Ethics OR LA 240 Special Issues Seminar |
| COMPUTER AND NETWORK SUPPORT | IS 236 Computer Forensics II ¹ |
| Certificate: SFCC | IS 245 Network Security II OR CIS 216 Advanced Network Security ² |
| The Computer and Network Support certificate concentrates on the practical operation, maintenance and use of computers, computer net- | Total |

works and their peripherals. This intensive hands-on program prepares the certificate holder to maintain the hardware and software of computer and network systems. Computers are generally networked in LANs and on the Internet in homes, factories and offices. This program teaches students to install, configure and maintain these systems. 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.

The following classes are prerequisites to this certificate.

- 142 Hardware Fundamentals, 3 credits
- 143 Operating System Fundamentals, 2 credits
- 144 Programming Fundamentals, 3 credits
- 160 Internet Fundamentals, 1 credit

First Quarter

| CS | 121 | UNIX/Linux | 3 |
|----|-----|----------------------------------|---|
| IS | 162 | Data Communications and Networks | 3 |
| IS | 240 | Computer and Network Support | 5 |

- d acquiring computer
- rusion detection, and

| 13 | 132 | Computer Ethics OK |
|---------|-------|--|
| LA | 240 | Special Issues Seminar |
| IS | 234 | Computer Forensics I |
| IS | 244 | Network Security I OR |
| CIS | 214 | Beginning Network Security5 |
| | | Total |
| Second | d Qua | rter |
| IS | 232 | Computer Forensics/Security Seminar |
| IS | 236 | Computer Forensics II ¹ |
| IS | 245 | Network Security II OR |
| CIS | 216 | Advanced Network Security ² 5 |
| | | Total12 |
| Third (| Quart | er |
| IS | 238 | Computer Forensics III ³ |
| IS | 247 | Network Security III OR |
| CIS | 220 | Securing the Operating System ⁴ 5 |
| | | Electives |
| | | Total 12-15 |
| | | |

37-40 credits are required for this certificate.

See department for approved listing of electives.

Note: IS classes are from SFCC. CIS and LA classes are from SCC.

- ¹ IS 234 is a prerequisite.
- ² CIS 214 is a prerequisite.
- ³ IS 236 is a prerequisite.
- ⁴ CIS 216 is a prerequisite.

COMPUTING-SOFTWARE APPLICATIONS

Certificate: SFCC

The computing-software applications certificate program is designed to meet the growing need for computer skills in daily business operations. Students and members of the business community need computer training for current and future employment. Students will develop speed and accuracy on the keyboard, develop skills in troubleshooting routine computer problems, and develop a solid foundation with current application software. A capstone course will integrate software knowledge into a simulated business project.

The primary goal of the certificate program is to teach students to use the computer for daily business operations. Special attention is given to "hands-on" experience using popular software applications.

This certificate will increase value in the workplace.

First Ouarter

| riist Qi | uai te | • |
|----------|--------|-------------------------------|
| BT | 101 | Keyboarding5 |
| CAPPS | 104 | Windows |
| CAPPS | 110 | Word |
| IS | 120 | Business Computer Use |
| IS | 160 | Internet Fundamentals |
| | | Total |
| Second | Qua | rter |
| CAPPS | 112 | Excel |
| CAPPS | 114 | Access |
| CAPPS | 116 | PowerPoint |
| CAPPS | 120 | Outlook |
| IS | 142 | Hardware Fundamentals |
| IS | 143 | Operating System Fundamentals |
| | | Total |
| Third Q | uart | er |
| BT | 160 | Job Preparation Techniques |
| BT | 201 | Information Processing |
| BT | 270 | Office Computer Support OR |
| IS | 144 | Programming Fundamentals |
| IS | 210 | Internet Programming I |
| | | Total |
| | | |

40 credits are required for a certificate.

COOPERATIVE EDUCATION WORK EXPERIENCE

SCC, SFCC

Cooperative education is an organized program of study and educational work experience available throughout the student's college career.

To enroll in cooperative education the student registers for supervised cooperative work experience and the related seminar in the department appropriate to his/her academic or occupational goals. An instructor/coordinator is assigned who interviews the student and assists in locating appropriate full- or part-time paid employment as needed. In the case of those already employed, the instructor/coordinator interviews the student to determine eligibility for cooperative education. Students also may receive cooperative education credit for some types of nonpaid job experience.

Three work options are available for earning credit:

- The student works part time and attends classes on a daily basis.
- The student works full time and attends classes part time. This is of particular interest to evening students.
- A student may leave the campus to work full time for a quarter, then return to resume his/her studies. This option is desirable where work experience is located outside the service area of the community college.

A student must be registered for cooperative education work experience to receive credit.

The following courses may be offered in each academic discipline at

the discretion of the vice president of instruction. Specific requirements and limitations concerning courses are available from the appropriate campus instructional administrator.

Cooperative Education Seminar 266 and Cooperative Education Work Experience 267 or Cooperative Education Work Experience 288 (no seminar) can be used to meet graduation requirements for professional/technical programs with the approval of the appropriate dean.

Cooperative Education is available in many programs. For specific information call SCC (509) 533-7249 or SFCC (509) 533-3545.

266-Cooperative Education Seminar (1-2 credits)

267-Cooperative Education Work Experience (1-18 credits)

288-Cooperative Education Work Experience (no seminar) (1-18 credits)

CORRECTIONS

A.A.S. Degree: 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.)

FIRST YEAR

| CJ | 102 | Administration of Justice5 |
|------|-----|---|
| CJ | 106 | Introduction to Juvenile Control |
| CJ | 107 | Dynamics of Deviant Behavior |
| CJ | 108 | Introduction to Corrections |
| CJ | 132 | Criminal Justice Physical Training ¹ |
| CJ | 150 | Criminal Justice Report Writing 5 |
| CJ | 205 | Introduction to Criminal Law5 |
| ENG | 101 | English Composition ² |
| ENG | 109 | Speech Composition ² AND |
| SPCH | 101 | Introduction to Speech Communication ² 5 |
| SPCH | 102 | Interpersonal Communication ² 5 |
| | | Math ³ |
| | | P.E. Activity ⁴ |
| | | Recommended Electives List A 5 |
| | | Total56 |
| | | |

SECOND YEAR

| CJ | 209 | Human Relations |
|--------------|-----|---|
| CJ | 212 | Professional Development |
| CJ | 215 | Corrections-Security-Practice and Procedure 5 |
| CJ | 216 | Communication Techniques with the Incarcerated |
| | | Offender |
| CJ | 225 | Advanced Techniques in Correctional Programming 5 |
| CJ | 227 | Minority Studies |
| CJ | 228 | Ethics-Standards of Conduct |
| CJ | 230 | Institutional Programming |
| CJ | 237 | Criminal Justice Self-defense ⁵ |
| ENG | 205 | Technical Writing ² |
| ISFTY | 111 | Industrial First Aid |
| | | Recommended Electives List A |
| | | Recommended Electives List B |
| | | Total |

109 credits are required for an A.A.S. degree.

CJ

RECOMMENDED ELECTIVES LIST A: CHEM 101 General Chemistry......5 CIS 110 **GBUS GBUS** 217 HLTH 101 HLTH HSEAR 101 American Sign Language I 5 HUMAN101 Introduction to Humanities 5 Introduction to Women's Studies 5 HUMAN102 PHIL **PHIL** PSYCH 101 PSYCH 210 Conception through Adolescent Developmental SOC Introduction to Sociology 5 SOC Race and Ethnic Relations...... 5 SOC Crime and Justice......5 **SPAN RECOMMENDED ELECTIVES LIST B:** 265 Service Learning Volunteer Project AND................... 2 CJ GENST CI CJ Cooperative Education Work Experience OR 1-2

Students must have medical insurance and a doctor's release if needed; requires fitness assessment. If assessed below minimum fitness level, CJ 208 is a recommended prerequisite. PE 186 (for audit) is required to be taken concurrently with CJ 132, 133, 208, 241, 242 and 243.

Cooperative Education Work Experience (No Seminar)1-3

- ² This course may be substituted with any course or combination of courses approved by the instructional dean.
- 3 This math course may be substituted with APLED 112, GBUS 103 or any math course numbered 100 or above.
- ⁴ CJ 133, 241, 242 or 243 are recommended and have the same requirement as CJ 132. PE 186 (for audit) is required to be concurrently.
- ⁵ Students must pass one quarter of CIPT to enroll in this course.

Any Criminal Justice course

COSMETOLOGY

A.A.S. Degree: 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 Exam. After passing this exam, they will receive a license for cosmetology.

This program includes haircutting and styling, permanent waving, chemical relaxing, tinting and bleaching, and temporary superfluous hair removal; manicuring and pedicuring of natural nails; and basic skin care. 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 A.A.S. degree consist of general education requirements in the areas of written communications, human relations/leadership and computation. These courses are offered as prerequisites to the program. Those students who are on a waiting list are required to take these courses to enroll in the program. Students should check with the counseling department for assistance in planning their schedules.

Prerequisites:

| APLED | 112 | Applied Mathematics ¹ | . 5 |
|-------|-----|--|-----|
| APLED | 121 | Applied Written Communication ¹ | . 4 |

| CIS CIS COS | 105 110 101 | Computer Fundamentals for Vocations I OR Introduction to Computer Applications ² |
|-------------------|-------------------|--|
| | | Total |
| FIRST Y | EAR | |
| First Q | uarte | r |
| COS | 111 | Cosmetology, Esthetics and Manicuring Concepts I 5 |
| COS | 112 | Cosmetology, Esthetics and Manicuring Applications I .12 Total |
| Second | Qua | rter |
| COS COS | 121 122 | Cosmetology, Esthetics and Manicuring Concepts II 5 Cosmetology, Esthetics and Manicuring Applications II. 11 Total |
| Third Q | uart | er |
| COS COS | 131 132 | Intermediate Cosmetology I 5 Intermediate Cosmetology Applications I 11 Total 16 |
| SECON | D YE | AR |
| Fourth | Quar | ter |
| COS | 241 | Intermediate Cosmetology II 5 |
| COS | 242 | Intermediate Cosmetology Applications II 10 |
| ISFTY | 111 | Industrial First Aid |
| =:(:1. 0 | | |
| Fifth Qu APLED | uarte 125 | |
| COS | 251 | Employment Preparation ^{1, 2} |
| COS | 252 | Advanced Cosmetology Applications I |
| 000 | | Total |
| Sixth Q | uarte | er |
| COS | 261 | Advanced Cosmetology II |
| COS | 262 | Advanced Cosmetology Applications II |
| MMGT | 205 | Small Business Planning ¹ |
| 400 | | Total |
| 170 araa | lito or | a required for an A A C degree |

120 credits are required for an A.A.S. degree.

- 1 This related education requirement may be met by this course or combination of courses approved by the instructional dean or department chair.
- ² This course is offered on-line.

COSMETOLOGY CADET INSTRUCTOR

Certificate: SCC

This program prepares licensed cosmetologists for the cosmetology instructors' examination issued by the Washington State Board of Cosmetology. Under the supervision of a licensed cosmetology instructor, cadet instructor students receive training in instructional methods and clinical practice assisting basic students in all phases of cosmetology.

Professional courses required:

| | | Total |
|-------|-----|--|
| SPCH | 102 | Interpersonal Communication ³ 5 |
| COS | 284 | Special Topics ² |
| COS | 232 | Management and Laboratory Supervision 16 |
| CIS | 110 | Introduction to Computer Applications5 |
| APLED | 123 | Leadership Skills for Business and Industry ¹ 4 |

31 credits are required for a certificate.

- 1 This related education requirement may be met by this course or combination of courses approved by the instructional dean.
- ² Students should consult with the instructor before enrolling in COS 284.
- ³ This course may be substituted with any speech or cultural diversity course.

CREDIT AND FINANCIAL MANAGEMENT

A.A.S. Degree, Certificate: SFCC

The objectives of this program are to educate students for entry-level employment in the finance/credit field; and to provide continuing education opportunities for people currently working in the field, support courses for other business programs, and general financial and credit education to meet community needs.

The program is based on information from banks, mortgage companies, finance companies, credit unions and retail credit institutions in the Spokane area.

| FIRST YEAR | | |
|--|---|--|
| First Qu | ıarte | r |
| ACCT CRMGT GBUS GBUS MMGT | 101 190 100 108 181 | Principles of Accounting ¹ Business Credit Principles Money Management eBusiness Leadership Training-DEC ² Total |
| Second | Qua | rter |
| BT CAPPS CRMGT CRMGT GBUS MMGT | 107 112 140 | Business Communications ³ |
| Third Q | uart | |
| BT CRMGT CRMGT GBUS MMGT | | Business Communications ³ |
| SECON | D YE | AR |
| Fourth | Quar | |
| GBUS MMGT MMGT MMGT MMGT MMGT MMGT | 101 101 111 112 113 183 267 | Introduction to Business |
| | | Total |
| Fifth Qu | | |
| BT ENG SPCH GBUS | 272 109 101 280 | Business Correspondence ⁵ |
| Sixth Q | | |
| ECON MMGT | 100 211 | Fundamentals of Economics ⁷ |

90 credits are required for an A.A.S. degree.

- ¹ May substitute ACCT 103 and 104.
- ² May substitute GBUS 105 for MMGT 181, 182, 183.

- ³ May substitute ENG 101 for BT 107 and 108.
- ⁴ May substitute GBUS 217 for GBUS 103.
- ⁵ May substitute ENG 205 for BT 272
- ⁶ May substitute HS 136.
- ⁷ May substitute ECON 201 for ECON 100.

Certificate First Ouarter

| ACCT | 101 | Principles of Accounting ¹ | . 5 |
|-----------|--------|---|-----|
| CRMGT | 190 | Business Credit Principles | . 3 |
| GBUS | 100 | Money Management | |
| GBUS | 108 | eBusiness | |
| MMGT | 181 | Leadership Training-DEC ² | . 1 |
| IS | | Computing Elective/Information Systems | |
| | | Total | 15 |
| Second | Qua | rter | |
| BT | 107 | Business Communications ³ | . 3 |
| CRMGT | 140 | Financial Statement Analysis | . 3 |
| CRMGT | 150 | Introduction to Investments | . 2 |
| GBUS | 103 | Basic Business Math and Electronic Calculators ⁴ | . 5 |
| MMGT | 223 | Customer Service | . 3 |
| | | Total | 16 |
| Third Q | uarte | er | |
| BT | 108 | Business Communications ³ | . 3 |
| CAPPS | 112 | Excel | . 1 |
| CRMGT | 110 | Introduction to Finance | . 3 |
| CRMGT | 220 | Credit Law/Collection Techniques | . 3 |
| GBUS | 205 | Business Law | . 5 |
| | | Total | 15 |
| 46 credit | s are | required for a certificate. | |
| Keyboar | dino 1 | proficiency of 35 wpm required | |

Keyboarding proficiency of 35 wpm required.

CERTIFICATE ELECTIVES MAY BE CHOSEN FROM:

| ACCT | 107 | Accounts Receivable Procedures |
|-------|-----|------------------------------------|
| ACCT | 108 | Inventory Costing Procedures |
| ACCT | 109 | Fixed Asset Accounting |
| ACCT | 115 | Accounting for Current Liabilities |
| BT | 155 | Records Information Management |
| BT | 257 | Presentation Graphics/Publishing |
| CAPPS | 110 | Word |
| CAPPS | 114 | Access |
| CAPPS | 116 | PowerPoint |

- ¹ May substitute ACCT 103 and 104.
- ² May substitute GBUS 105 for MMGT 181 and 182.
- ³ May substitute ENG 101 for BT 107 and 108.
- ⁴ May substitute GBUS 217 for GBUS 103.

CRIMINAL JUSTICE

A.A.S. Degree: 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 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 A.A.S. degree is transferable to four-year institutions. Students interested in four-year 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.)

FIRST YEAR AOUAT 101 Introduction to Criminal Justice 5 CJ CJ Crime Scene Diagramming......5 CJ CJ 105 CJ 132 CJ 133 CJ Criminal Justice Report Writing 5 **ENG** 101 **ENG** Speech Composition³ AND 109 SPCH 101 Introduction to Speech Communication³ 5 **SPCH** Interpersonal Communication³ 5 **SECOND YEAR** CJ CJ CI CI 205 Introduction to Criminal Law8 5 CJ CJ CI 211 CJ 212 CJ CJ CJ CJ CJ CI CJ **ENG** 205 Recommended Electives List A. 5 **RECOMMENDED ELECTIVES LIST A:** BIOL Keyboarding......5 BT BT CHEM 101 General Chemistry......5 Introduction to Computer Applications........................ 5 CIS 110 GBUS 102 GBUS 103 Basic Business Math and Electronic Calculators 5 **GBUS** HSEAR 101 American Sign Language I 5 HUMAN101 Introduction to Humanities 5 HUMAN102 Introduction to Women's Studies 5 PHIL 101 PHIL 210 PSYCH 101 RUSSN 101 101 Introduction to Sociology 5 SOC SOC SOC Crime and Justice..... 5 **SPAN RECOMMENDED ELECTIVES LIST B:** 265 Service Learning Volunteer Project AND................... 2 CJ CI

116 credits are required for an A.A.S. degree.

Any Criminal Justice course

¹ CJ 101, 102 and 104 are prerequisites.

CJ

CJ

² Requires medical insurance and a doctor's release if needed; requires fitness assessment. If assessed below minimum fitness level, CJ 208 is a recommended prerequisite. PE 186 (for audit) is required to be taken concurrently with CJ 132, 133, 208, 241, 242 and 243.

267 Cooperative Education Work Experience OR 1-2

Cooperative Education Work Experience (No Seminar) .1-3

- 3 May be substituted with any course or combination of courses approved by the instructional dean.
- ⁴ CJ 150, 201, 205 and 237 are prerequisites.
- ⁵ CJ 104, 150, 201, 203 and 205 are prerequisites.
- ⁶ CJ 235 and 236 must be taken concurrently.
- ⁷ Passing one quarter of CJPT is required before taking this course.
- ⁸ CJ 101 and 102 are prerequisites.

CULINARY ARTS

A.A.S. Degree: 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.

FIRST YEAR

| FIK51 1 | EAK | |
|---------|-------|---|
| First Q | uarte | r |
| APLED | 121 | Applied Written Communication ¹ 4 |
| CUL | 110 | Introduction to Culinary Arts |
| CUL | 115 | Food Sanitation ² |
| HM | 112 | Hospitality Mathematics |
| ISFTY | 111 | Industrial First Aid |
| | | Total |
| Second | l Qua | rter |
| CUL | 124 | Cooking Applications I ¹ |
| CUL | 126 | Food Science |
| HM | 116 | Nutrition for Chefs and Restaurant Managers 3 |
| | | Total 15-18 |
| Third Q |)uart | er |
| CUL | 123 | Espresso |
| CUL | 127 | Banquet Service |
| CUL | 131 | A la Carte Service |
| HM | 130 | Human Relations ¹ |
| | | Total 18 |
| SECON | D YE | AR |
| Fourth | Quai | ter |
| CUL | 253 | Advanced Cooking Theory 5 |
| CUL | 254 | A la Carte Cooking I |
| CUL | 266 | Cooperative Education Seminar ³ AND |
| CUL | 267 | Cooperative Education Work Experience ³ OR 4 |
| CUL | 288 | Cooperative Education Work Experience (No Seminar) . 5 |
| | | Total20 |
| Fifth Q | uarte | |
| BAK | 140 | Yeast Doughs |
| CUL | 243 | Theory of Restaurant Baking |
| CUL | 244 | Restaurant Baking Applications |
| CUL | 265 | Hospitality Cost Controls |
| | | Total |
| Sixth Q | | |
| CUL | 255 | Menu Planning |
| CUL | 260 | Presidential |
| CUL | 263 | Theory of Modern Cuisine |
| CUL | 264 | A la Carte Cooking II |
| | | Total |

109-112 credits are required for an A.A.S. degree.

A 2.0 grade or better must be maintained in all commercial baking (BAK), culinary arts (CUL) or hotel/restaurant management (HM) courses for an A.A.S. degree.

- 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.
- 3 CUL 266 and 267 (concurrent enrollment) OR CUL 288 may be taken during the second year.

CUSTOMER SERVICE REPRESENTATIVE

A.A.S. Degree: SCC

The customer service representative program prepares students to work as commercial or residential service representatives in the telephone industry and also for similar positions in major department stores, collection agencies, credit bureaus, airlines, travel agencies, medical insurance agencies, public utilities and telephone answering services. This program is designed to give the students the necessary knowledge and skills to deal directly with customers in matters of credit application, bill collection, making arrangements for equipment installation and servicing, and acting as the company representative in special problems that may arise.

FIRST YEAR

| First Q | uarte | r |
|--------------|------------|--|
| BT | 090 | Basic Grammar for Business II 5 |
| BT | 102 | Document Processing |
| BT | 151 | Business Student Preparation |
| CATT | 102 | Introduction to Outlook |
| | | Total17.5 |
| Second | • | |
| BT | 109 | Business Communications |
| BT | 165 | Word Processing |
| BT GBUS | 231 101 | Office Procedures. 5 Introduction to Business 5 |
| GDUS | 101 | Total |
| | | |
| Third (| • | |
| ACCT ACCT | 101 151 | Principles of Accounting OR |
| BT | 201 | College Accounting I |
| GBUS | 103 | Basic Business Math and Electronic Calculators 5 |
| 0200 | 100 | Total |
| SECON | ID VE | AD |
| Fourth | | |
| BT | 202 | Advanced Information Processing |
| BT | 272 | Business Correspondence |
| ECON | 100 | Fundamentals of Economics OR |
| ECON | 201 | Introduction to Macroeconomics 5 |
| | | Total15 |
| Fifth Q | uarte | r |
| ВТ | 250 | Information Technology5 |
| GBUS | 205 | Business Law |
| SPCH | 102 | Interpersonal Communication 5 |
| | | Total |
| Sixth C | Quart | |
| BT | 160 | Job Preparation Techniques |
| BT | 260 | Administrative Office Management5 |
| BT | 285 | Administrative Professional Internship |
| GBUS | 280 | Human Relations in Business |
| 07.5 | 11. | to magnified for an A.A.C. dagrees |
| | | |

97.5 credits are required for an A.A.S. degree.

- To enter the fourth quarter of this program, students must pass competency tests in the following areas:
 - *Math (fractions, percentages, etc.)*
 - Writing (write a basic letter, memo and/or e-mail with correct spelling, punctuation, grammar, etc.)
 - Format documents from unarranged copy in a timed situation (letters, memos, reports and tables) using Microsoft Word.
 - Key at 40 wpm.

DENTAL ASSISTING

A.A.S. Degree, Certificate: SCC

A one-year program designed to prepare the student for employment as a chairside assistant to the dentist.

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.

Admission Prerequisite/Requirements:

- High School Diploma or GED certificate
- Appropriate scores in one of the following: ASSET or Compass

Admission Recommendations:

- Computer skills
- Active email account

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

Professional Curriculum¹

First Ouarter

| | | - |
|-------------|------------|--|
| DENT | 111 | Introduction to Dental Assisting 5 |
| DENT | 112 | Chairside Related Theory 4 |
| DENT | 114 | Introduction to Dental Radiology |
| DENT | 116 | Dental Restorative Techniques |
| DENT | 118 | Dental Anatomy4 |
| ENG | 101 | English Composition |
| | | Total24 |
| Second | Qua | rter |
| 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 |
| SPCH | 102 | Interpersonal Communication 5 |
| | | Total |
| Third Q | uart | er |
| DENT | 131 | Advanced Chairside Assisting 6 |
| DENT | 136 | Dental Restorative Techniques 2 |
| DENT | 138 | Office Management |
| DENT | 139 | Chairside Clinical Experience 8 |
| | | Total |
| | -1 - | |
| | | rts Curriculum (Optional) ² |
| BIOL | 101 | General Biology |
| CHEM ENG | 101 109 | General Chemistry |
| SPCH | 109 | Speech Composition AND Introduction to Speech Communication 5 |
| PSYCH | 101 | Introduction to Speech Communication 5 Introduction to Psychology 5 |
| SOC | 101 | Introduction to Tsychology |
| 500 | 101 | Math/Science Elective |
| | | Communication or Humanities Electives |
| | | |

111 credits are required for an A.A.S. degree and 66 credits are required for a certificate.

Note: All electives must be numbered 100 or above.

Students may repeat a dental assisting course once, but it must be repeated within two years.

- ¹ The student must maintain a 2.0 grade in all subjects.
- ² Student receives associate in applied science degree in dental assisting. (For an A.A.S. degree in dental assisting, the student must complete the above designated courses.) All courses must be completed with a 2.0 grade or better.

DIAGNOSTIC MEDICAL SONOGRAPHY

A.A.S. Degree: SCC

Diagnostic Medical Sonography Technology is an allied health profession in which practitioners perform diagnostic and monitoring procedures using sound waves. The sonographer performs examinations at the request or direction of a physician. Through subjective sampling and/or recording, the 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 sonographer must obtain appropriate history, physical findings, and pertinent laboratory data to adapt the imaging techniques to obtain comprehensive and diagnostic information.

Admission Prerequisites/Requirements:

- Anatomy and Physiology 242 and 243
- Math 099
- Chemistry 161
- Biology 101
- All math and science prerequisites must have been completed within the last five years with a grade of 2.0 or better.
- Students may repeat a professional class once, but it must be repeated within two years.

FIRST YEAR

| First Q | uarte | ir e |
|--------------|------------|--|
| CHEM ENG | 120 101 | Organic and Biochemistry for the Health Sciences 5 English Composition 5 |
| SONO | 111 | Diagnostic Ultrasound I |
| VASC | 112 | Vascular Fundamentals 4 |
| | | Total |
| Second | l Qua | rter |
| SONO | 121 | Human Cross-Section Anatomy 4 |
| SONO | 125 | Ultrasound Physics and Instrumentation 5 |
| SPCH | 127 | Leadership Development |
| VASC | 122 | Vascular Procedures 4 Total 16-18 |
| Third Q |)uart | |
| NCT | 133 | Noninvasive Cardiovascular Fundamentals 5 |
| SONO | 131 | Diagnostic Ultrasound II |
| SONO | 135 | Ultrasound Physics and Instrumentation II 5 |
| VASC | 132 | Cardiovascular Physiology |
| | | Total20 |
| Fourth | Quai | rter |
| SONO | 141 | Diagnostic Ultrasound III 4 |
| SONO SONO | 142 | Sonography Clinical Preparation |
| SONO | 143 | Sonography Clinical Observation |
| SECON | D YF | |
| Fifth Q | | |
| SONO | 251 | Advanced Sonography |
| SONO | 253 | Sonography Clinical I 6 |
| | | Total |
| Sixth Q | uart | |
| SONO | 263 | Sonography Clinical II |
| | | Total |
| Sevent | - | |
| SONO | 273 | Sonography Clinic III |
| | | Total |

109-111 credits are required for an A.A.S. degree.

A 2.0 grade point must be maintained quarterly in each course before proceeding to the next quarter.

DIESEL/HEAVY DUTY EQUIPMENT

A.A.S. Degree: SCC

Diesel/heavy duty mechanics repair and maintain trucks, buses, 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.

FIRST YEAR

| First Qu | ıarte | r |
|---------------|---------|--|
| APLED | 121 | Applied Written Communication ¹ 4 |
| HEQ | 111 | Basic Electrical Theory |
| HEQ | 112 | Basic Electrical Applications |
| | | Total20 |
| Second | Qua | |
| APLED | 112 | Applied Mathematics ¹ |
| HEQ | 121 | Basic Principles of Engine Theory |
| HEQ | 122 | Basic Engine Applications |
| | | Total |
| Third Q | uarto | er |
| APLED | 123 | Leadership Skills for Business and Industry ¹ 3 |
| CIS | 105 | Computer Fundamentals for Vocations I ¹ |
| HEQ | 131 | Principles of Power Train Theory |
| HEQ | 132 | Power Train Applications 9 Total 20 |
| | | lotal |
| SECONI | D YE | AR |
| Fourth | Quar | ter |
| APLED | 125 | Employment Preparation ¹ |
| HEQ | 241 | Heavy Equipment Hydraulic Theory |
| HEQ | 242 | Heavy Duty Equipment Hydraulic Application 9 |
| | | Total |
| Fifth Qu | ıarte | r |
| AGGEN | 152 | Arc Welding |
| AGGEN | | Oxy-acetylene Welding 4 |
| HEQ | 251 | Practical Shop Procedures |
| HEQ | 252 | Practical Shop8 |
| | | Total |
| Sixth Q | uarte | |
| HEQ | 261 | Practical Shop Procedures |
| HEQ | 262 | Practical Shop |
| HEQ | 294 | Special Problems |
| ISFTY | 111 | Industrial First Aid |
| | | Total |
| 119 cred | its are | e required for an A.A.S. degree. |

119 credits are required for an A.A.S. degree.

- 1 This related education requirement may be met by any course or combination of courses approved by the instructional dean.
- 2 Two credits of HEQ 266 and 15 credits of HEQ 267 or 17 credits of HEQ 288 with no seminar may be substituted for sixth quarter.

EARLY CHILDHOOD EDUCATION

A.A.S. Degree, 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 based on the Washington State Skill Standards and are offered both day and evening.

SFCC Early Childhood Education program options:

- Certificates of Specialization (20-30 credits) eight certificates that focus on a specific area of study
- Early Childhood Education Certificate (57-60 credits) contains the ECED core content courses

- Associate in Applied Science (AAS) degree (90-93 credits) contains the same course work as the ECED certificate above, plus supporting courses and electives which may be modified for articulation into a BA degree.
- Associate of Applied Science Transfer degree (AAS-T) (91-92 credits)
 -contains ECED core content with the option to transfer to accepting
 four year schools.
- Associate of Arts (AA) degree (90 credits) Includes 15 credits of electives in ECED that transfers to four year schools.
- Articulation with area High Schools Articulates college credits for completion of specified High School ECED courses.
- State Training and Registry System (STARS) Accepts college credits to meet STARS requirements.

Outlook for employment in this field is excellent due to current research and recognition of the importance of early development and learning. The SFCC Early Childhood Education program has achieved recognition in our community and region. Regional employers contact our program seeking educated early childhood employees for positions such as: Lead teacher, Family child care provider, School-age care provider, Teachers aide/assistant, Program specialist, Parent-school liaison, Program supervisor, Early education coordinator, Center director/manager, Assistant director/manager, Foster care provider

FIRST YEAR

instructor. Certificate

102

124

132

ECED

ECED

ECED

ECED

ECED

| First Q | uarte | r |
|----------------------|-------|---|
| ECED | 101 | Issues and Trends in Early Childhood Education 5 |
| ECED | 102 | Observation and Documentation 1-2 |
| ECED | 124 | Methods of Learning |
| GENST | 106 | College Success |
| | | Total 14-15 |
| Second | Qua | |
| ECED | 135 | Infant/Toddler Care and Education 5 |
| ECED | 190 | Child Development |
| ENG | 101 | English Composition |
| | | Total15 |
| Third Q | - | |
| ECED | 226 | Curriculum Development |
| ECED | 230 | Learning Environments5 |
| ED | 204 | Introduction to Special Education |
| HLTH | 174 | First Aid |
| | | Total 18 |
| SECON | D YE | AR |
| Fourth | Quai | rter |
| ECED | 132 | Fostering Social Competence 5 |
| ECED | 290 | School-age Development |
| GBUS | 102 | Math Skills for Business OR |
| MATH | 090 | Pre-Algebra or higher |
| | | Total |
| Fifth Q | | |
| ECED | 254 | Dynamics of Family Relationships |
| ECED | 281 | Capstone Practicum |
| | | Approved Elective ¹ 5 |
| | | Total |
| Sixth Q | | |
| ECED | 282 | Practicum I |
| HS | 136 | Improving Interpersonal Communication 5 |
| | | Approved Elective ¹ |
| | | Total |
| | | are required for an A.A.S. degree. |
| ¹ Electiv | e may | be selected with the approval of an early childhood education |

101 Issues and Trends in Early Childhood Education 5

Observation and Documentation 1-2

Infant/Toddler Care and Education 5

| ECED ECED ECED ENG GBUS MATH GENST HS | 136 | Child Development |
|--|------------|---|
| required | d for c | ertificate. Idhood Education Certificates of |
| Speci | | |
| Infan | t To | ddler Specialist |
| ECED | 102 | Observation and Documentation |
| ECED | 132 | Fostering Social Competence 5 |
| ECED | 135 | Infant/Toddler Care and Education |
| ECED ECED | 190 254 | Child Development |
| ECED | 234 | Total |
| | | |
| | | m Development Specialist |
| ECED ECED | 102 124 | Observation and Documentation |
| ECED | 190 | Child Development |
| ECED | 226 | Curriculum Development |
| ECED | 230 | Learning Environments |
| | | Total |
| Early | Chi | ldhood Specialist I |
| ECED | 102 | Observation and Documentation 1-2 |
| ECED | 124 | Methods of Learning |
| ECED | 132 | Fostering Social Competence |
| ECED | 190 | Child Development |
| ECED | 230 | Learning Environments. 5 Total 21-22 |
| _ | | |
| | | Idhood Specialist II |
| | | rly Childhood Specialist I Issues and Trends in Early Childhood Education OR |
| ECED | 226 | Curriculum Development |
| ECED | 254 | Dynamics of Family Relationships |
| ECED | 281 | Capstone Practicum |
| ECED | 282 | Practicum I |
| | | Total20 |
| Famil | v Se | ervices Advocate |
| ECED | 190 | |
| ECED | 254 | Dynamics of Family Relationships 5 |
| HS | 136 | Improving Interpersonal Communication 5 |
| HS | 281 | Practicum I |
| | | 10001 |
| | - | nild Care Specialist |
| ACCT SBM | 103 101 | Fundamental Bookkeeping Procedures OR How to Start a Small Business |
| ECED | 101 | Issues and Trends in Early Childhood Education OR |
| ECED | 124 | Methods of Learning |
| ECED | 102 | Observation and Documentation |
| ECED | 132 | Fostering Social Competence 5 |
| ECED | 190 | Child Development |
| ECED | 254 | Dynamics of Family Relationships |
| | | Total 24-27 |

| Child Care Administration Specialist | Third Qu | | |
|---|-----------------------|--------|---|
| ECED 101 Issues and Trends in Early Childhood Education 5 | | | Child Development OR Conception through Adalescent Developmental |
| ECED190Child Development5ECED260Child Care Administration5 | roich 2 | 210 | Conception through Adolescent Developmental Psychology |
| ECED 290 School-age Development | ED 2 | 280 | Behavior/Classroom Management |
| SBM 101 How to Start a Small Business 5 | HSGER 1 | 115 | Multi-Cultural Perspectives in Human Services 5 |
| Total25 | | | Total |
| School-age Care Specialist | SECOND | | |
| ECED 102 Observation and Documentation1-2 | Fourth Q | - | |
| ECED 260 Child Care Administration | | | Social/Emotional Development |
| ECED270School-age Creative Activities5ECED280School-age Guidance5 | | 121 | Job Communication Skills |
| ECED 290 School-age Development | | | Elective ¹ |
| Total 21-22 | | | Total |
| EDUCATION PARAPROFESSIONAL | Genera Fifth Qua | | ducation Emphasis |
| A A Dogram A A S Dogram Contificator SECC | | | Education/Special Education Practicum I 5 |
| A.A. Degree, A.A.S. Degree, Certificate: SFCC | | 109 | Speech Composition AND Introduction to Speech Communication 5 |
| General Education Emphasis | SPCH . | 101 | Introduction to Speech Communication |
| Special Education Emphasis | | | Elective ² 3 |
| Early Childhood Education Emphasis | | | Total 17 |
| The education paraprofessional program provides theory and practice in | Sixth Qu | | |
| the skills for working as effective members of instructional teams. The | | | Dynamics of Family Relationships 5 Education/Special Education Practicum II |
| core curriculum focuses on current issues and historical foundations of regular and special education, instructional strategies, behavior man- | | 202 | Additional English or Math elective |
| agement, human development and interpersonal skills in the context | | | Total15 |
| of a diverse society. Supervised practicum opportunities for hands-on | Specia | l e | ducation Emphasis |
| experiences in schools are provided throughout this course of study. | Fifth Qua | | ducation Emphasis |
| Certificate: This option may be most appropriate for those obtaining a degree in Early Childhood Education wishing to extend their knowledge | | | Introduction to Developmental Disabilities 5 |
| of working with children with special needs. As of January 2002, new | | | Education/Special Education Practicum I 5 |
| federal guidelines require most paraprofessionals in public K-12 schools | | | Elective ¹ |
| to complete a two-year program. | | | Elective ² |
| A.A.S. Education Paraprofessional, General Education emphasis: Courses address the Washington State Core Competencies for Para- | Sixth Qu | arte | |
| educators and the Washington State Skill Standards. An education | | | Learning Disabilities |
| paraprofessional works under the supervision of a licensed/certificated | ED 2 | 282 | Education/Special Education Practicum II 5 |
| staff member to assist and support educational services. The goal is to support learners experiencing delays and/or those who are learning | HSEAR 1 | 101 | American Sign Language I |
| English as well as typical students within a general education setting. | | | Total |
| A.A.S. Education Paraprofessional, Special Education Emphasis: Courses include the core curriculum described above yet delve deeper into pro- | Early C | | dhood Education Emphasis |
| viding services for children identified with disabilities such as learning | | 132 | Fostering Social Competence 5 |
| disabilities, emotional and behavioral disorders, and developmental disabilities. | | 230 | Learning Environments |
| A.A.S. Education Paraprofessional, Early Childhood Emphasis: Courses | | 201 | Total |
| include the core curriculum described above and is intended to meet the | Sixth Qu | arte | |
| needs of persons who wish to become paraeducators in grades K-3. | | 124 | Methods of Learning |
| A.A. Transfer Degree: If you intend to transfer to a 4-year college to complete a teacher-training program leading to certification, you | | 254 | Dynamics of Family Relationships |
| must follow the Associate of Arts degree. It is important to contact the | ED 2 | 282 | Education/Special Education Practicum II |
| intended transfer institution since prerequisites, transferability, and | | | Total |
| program requirements vary around the state. | 90-92 cred | dits a | are required for an A.A.S. degree. |
| FIRST YEAR | | | e approved by instructor. |
| First Quarter | ² Technolo | оду с | ourse needs to be from IS, CAPPS, GRDSN or other Internet |
| ED 204 Introduction to Special Education | related | d cou | rse. |
| GBUS 101 English Composition | Certific | cat | e |
| MATH 090 Pre-Algebra | | ifica | te of completion students must complete the following |
| Total 13-15 | courses: | | _ |
| Second Quarter | First Qua | | Introduction to Special Education |
| ED 202 Survey of Education | | 252 | Social/Emotional Development 5 |
| PSYCH 101 Introduction to Psychology | | | Learning Disabilities |
| Total 15 | | | Total |

| Second | l Qua | rter | ELMT | 111 | Electrical Math 5 |
|----------------|------------|--|--------------|------------|---|
| ED | 270 | Introduction to Developmental Disabilities 5 | ELMT | 112 | Electrical Theory5 |
| ENG | 101 | English Composition | ELMT | 113 | Safety and Tools |
| HS | 136 | Improving Interpersonal Communication 5 | ELMT | 114 | Materials and Fasteners |
| | | Total | MET | 103 | Introduction to Computers for Technology |
| Third Q | uart | er | | | Total25 |
| ED | | Behavior/Classroom Management 5 | Second | d Qua | rter |
| GBUS | 102 | Math Skills for Business | ELMT | 122 | DC Circuits |
| HLTH | 174 | First Aid | ELMT | 123 | ACTheory |
| | | Choose from the list below4 | ELMT | 124 | Motor Maintenance |
| | | Total | ELMT | 262 | Raceways |
| DI 116 0 | | | | | Total |
| | | OR MORE OF THE FOLLOWING COURSES OR APPROVED BY INSTRUCTOR: | Third (| Quart | er |
| | | Introduction to Office | APLED | 123 | Leadership Skills for Business and Industry |
| | | | ELMT | 131 | Solid State5 |
| CAPPS CAPPS | 104 | Windows 1 Word 1 | ELMT | 132 | DC Generators and Motors 4 |
| CAPPS | 110 | | ELMT | 135 | DC Motor Controls |
| CAPPS | 112 114 | Excel | ELMT | 252 | Transformers and Industrial Lighting5 |
| CAPPS | 114 | PowerPoint | | | Total |
| ECED | 101 | Issues and Trends in Early Childhood Education 5 | SECON | ID VE | AD |
| ECED | 290 | School-age Development | | | |
| ED | 205 | Tutor Training | Fourth | • | |
| ED | 206 | Advanced Tutor Training | APLED | | Employment Preparation ¹ |
| ED | 208 | Tutorial Practicum | ELMT | 133 | AC Motors and Alternators4 |
| ED | 281 | Education/Special Education Practicum I 5 | ELMT | 134 | Introduction to AC Controls |
| ED | 282 | Education/Special Education Practicum II 5 | ELMT | 241 | AC Motor Controls |
| HS | 102 | Introduction to Human Services 5 | ELMT | 251 | National Electric Code |
| HS | 105 | Child Abuse | | | Total |
| HS | 277 | 1 | Elect | rical | Maintenance and Automation Option |
| HSEAR | | American Sign Language I 5 | | | - |
| HSEAR | | Education of the Hearing Impaired 5 | Fifth Q | - | |
| HSSUB | 172 | Chemical Dependency in the Family | ELMT | 242 | Advanced AC Controls |
| 45 credi | ts are | required for a certificate. | ELMT | 243 | Introduction to Programmable Controllers 4 |
| | | | ELMT ELMT | 253 | National Electric Code - Article 430 |
| | EI | LECTRICAL MAINTENANCE | ISFTY | 254 111 | Programmable Controller Applications |
| | | AND AUTOMATION | 13111 | 111 | Total |
| | | AND AUTOMATION | | | |
| | | A.A.S. Degree: SCC | Sixth (| | |
| | | | ELMT | 244 | Solid State Motor Controls ² |
| ELECTR | ICAL | MAINTENANCE AND AUTOMATION OPTION | ELMT | 263 | Wiring Techniques ² |
| POWER | SVS | TEMS MAINTENANCE OPTION | ELMT | 265 | Advanced Programmable Controllers ² |
| | | | ELMT | 268 | Programmable Controller Integration ² |
| | | intenance and automation technicians are responsible enance, testing, repair, and/or replacement of the electri- | | | Total |
| | | nd controls found in modern industrial plants and large | Dowe | C. | stoms Maintonansa Ontion? |
| | | uildings. | | - | stems Maintenance Option ³ |
| | | cal systems become more sophisticated, so must the skills | Fifth Q | • | |
| | | cal maintenance and automation technician. By mixing | FLPT | | Pneumatic Theory |
| | | Il with practical hands-on lab experiences using modern | FLPT | 272 | Pneumatic Math and Symbols |
| | | dustrial equipment and techniques, the student will be | FLPT | 273 | Hydraulic Theory |
| | | a challenging career in electrical maintenance. | FLPT | 274 | Applied Hydraulics |
| | | | ISFTY | 111 | Industrial First Aid |
| | | offered several options within the electrical maintenance | | | Total20 |
| | | on program. They may choose to complete an A.A.S. de- cialized training in one of the following areas: electrical | Sixth (| Quart | er |
| | | and automation or power systems maintenance. Electrical | ELMT | 266 | 1 |
| | | ctrical sales option certificates also are offered. | ELMT | 267 | Cooperative Education Work Experience OR 16 |
| | | * | ELMT | 288 | Cooperative Education Work Experience (No Seminar) 18 |
| Student | 5 mus | t maintain a 2.0 GPA in each course of the major discipline | | | Total 18 |

123 credits are required for an A.A.S. degree for any option.

The cooperative education supervisor must approve the worksite chosen for the cooperative education work experience.

- ¹ This related education requirement may be met by any alternate course or $combination\ of\ courses\ approved\ by\ the\ instructional\ dean.$
- Cooperative education may be substituted with department permission only (ELMT 266, Cooperative Education Seminar, 2 credits, and ELMT 267, Cooperative Education Work Experience, 16 credits). These courses must be taken in the final quarter.
- ³ Only students who have received prior approval from the Bonneville Power Administration are eligible for this degree option.

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.

FIRST YEAR

First Quarter

APLED 121 Applied Written Communication¹......4

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.

First Quarter

| APLED | 121 | Applied Written Communication ¹ |
|---------|------|--|
| ELMT | 111 | Electrical Math |
| ELMT | 112 | Electrical Theory5 |
| ELMT | 114 | Materials and Fasteners |
| | | Choose one additional ELMT course |
| | | Total22 |
| Second | Qua | rter |
| ELMT | 122 | DC Circuits |
| ELMT | 123 | ACTheory5 |
| ELMT | 262 | Raceways |
| | | Choose one additional ELMT course4 |
| | | Total |
| Third Q | uart | er |
| APLED | 125 | Employment Preparation 1 |
| | | Total |
| | | IOCAI |

Electrical Sales Option First Quarter

59-63 credits are required for a certificate.

| Third Quarter | | | | | |
|---------------|-----|---|--|--|--|
| | | Total | | | |
| | | Choose one additional ELMT course 4 | | | |
| ELMT | | Raceways | | | |
| ELMT | 123 | ACTheory | | | |
| ELMT | | DC Circuits | | | |
| APLED | 123 | Leadership Skills for Business and Industry | | | |
| Second | Qua | rter | | | |
| | | Total22 | | | |
| | | Choose one additional ELMT course4 | | | |
| ELMT | 114 | Materials and Fasteners4 | | | |
| ELMT | 112 | Electrical Theory5 | | | |
| ELMI | 111 | Electrical Math | | | |

APLED 121 Applied Written Communication¹.....

| | • | |
|-------|-----|---|
| APLED | 125 | Employment Preparation ¹ |
| ELMT | 266 | Cooperative Education Seminar AND 2 |
| ELMT | 267 | Cooperative Education Work Experience OR 16 |
| ELMT | 288 | Cooperative Education Work Experience (No Seminar) . 18 |
| | | Total |

64 credits are required for a certificate.

ELECTRONICS ENGINEERING TECHNICIAN

A.A.S. Degree, Certificate: SCC

AVIONICS OPTION

BROADCAST AND RF COMMUNICATIONS TECHNICIAN OPTION

COMPUTER AND DATA COMMUNICATIONS TECHNICIAN OPTION

ELECTRONICS MAINTENANCE TECHNICIAN OPTION

ELECTRONICS ENGINEERING TECHNICIAN CERTIFICATE

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.

Prerequisites:

Appropriate ASSET 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.

| First Q | uarte | r |
|----------------|------------|--|
| ELECT ELECT | 110 111 | Computer Fundamentals for Electronics |
| ELECT | 112 | DC/AC Circuit Lab |
| ELECT | 113 | DC/AC Circuit Math |
| | | Total |
| Second | Qua | rter |
| APLED | 121 | Applied Written Communication ¹ 4 |
| ELECT | 121 | Advanced DC/AC Circuits |
| ELECT | 122 | Advanced DC/AC Circuits Lab |
| ELECT | 123 | Advanced DC/AC Circuit Math 5 |
| | | Total |
| Third Q | uart | er |
| ELECT | 134 | Printed Circuit Board/Surface Mount Technology |
| | | Design and Repair |
| ELECT | 136 | Solid State Devices and Circuits5 |
| ELECT | 137 | Solid State Devices and Circuits/Lab4 |
| ELECT | 138 | Linear Devices and Circuits 5 |
| ELECT | 139 | Linear Devices and Circuits Lab |
| | | Total |
| SECON | D YE | AR |
| Fourth | Quar | ter |
| APLED | 125 | Employment Preparation ¹ |
| ELECT | 211 | Digital Concepts5 |
| ELECT | 212 | Digital Concepts Lab4 |
| ELECT | 213 | Basic Computer Systems |
| ELECT | 214 | Basic Computer Systems Lab 4 |
| | | Total |

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

| Fifth Quarter | Second Quarter |
|---|---|
| ELECT 221 Communication Fundamentals 5 | APLED 121 Applied Written Communication ¹ 4 |
| ELECT 222 Communication Fundamentals Lab 4 | ELECT 121 Advanced DC/AC Circuits |
| ELECT 223 Advanced Computer Systems | ELECT 122 Advanced DC/AC Circuits Lab |
| ELECT 224 Advanced Computer Systems Lab | ELECT 123 Advanced DC/AC Circuit Math 5 |
| Total 18 | Total23 |
| | |
| Sixth Quarter | Third Quarter |
| ELECT 231 Advanced Communications | ELECT 134 Printed Circuit Board/Surface Mount Technology |
| ELECT 232 Advanced Communications Lab 4 | Design and Repair |
| ELECT 233 Systems Troubleshooting | ELECT 136 Solid State Devices and Circuits |
| ELECT 234 Systems Troubleshooting Lab | ELECT 137 Solid State Devices and Circuits/Lab 4 |
| Total | ELECT 138 Linear Devices and Circuits 5 |
| | ELECT 139 Linear Devices and Circuits Lab |
| Seventh Quarter | Total |
| Choose from the options below as available. Frequency of options of- | |
| fered is based on sufficient student interest and staff availability. | Fourth Quarter ² |
| Autouto Outlon | APLED 125 Employment Preparation ¹ |
| Avionics Option | ELECT 211 Digital Concepts5 |
| ELECT 245 Principles of Avionics | ELECT 212 Digital Concepts Lab |
| ELECT 246 Principles of Avionics Lab | ELECT 213 Basic Computer Systems |
| ELECT 247 Avionics Systems | ELECT 214 Basic Computer Systems Lab 4 |
| ELECT 248 Avionics Systems Lab | Total |
| Total | 136 credits are required for the A.A.S. degree and 82 credits are required |
| 136 credits are required for an A.A.S. degree. | for a certificate. |
| 1 0 | ¹ This related education requirement may be met by any course or combination |
| Computer And Data Communications Technician | of courses approved by the department chair or the technical education division |
| Option | dean. |
| ELECT 255 Digital Data Communications | ² To earn a certificate from the Society of Broadcast Engineers, students must |
| | take these courses during summer quarter prior to or immediately following |
| ELECT 256 Digital Data Communications Lab. | the seventh quarter. |
| | ine sevenin quarter. |
| ELECT 258 Wireless Communications Lab | |
| Total | EMERGENCY MEDICAL TECHNICIAN |
| Broadcast And Df Communications Tachnisian | (PARAMEDIC) |
| Broadcast And Rf Communications Technician | (I / III/ IIII EDIC) |
| Option | A.A.S. Degree, Certificate: SCC |
| | |
| Seventh Quarter | |
| Seventh Quarter ELECT 278 RF Communications | This program is for personnel who provide advanced emergency care |
| • | This program is for personnel who provide advanced emergency care under a supervising physician through direct radio communication and |
| ELECT 278 RF Communications 5 | This program is for personnel who provide advanced emergency care under a supervising physician through direct radio communication and written standing orders. Applicants must be individuals with at least |
| ELECT278RF Communications5ELECT279RF Communications Lab.4 | This program is for personnel who provide advanced emergency care under a supervising physician through direct radio communication and written standing orders. Applicants must be individuals with at least one year of prior experience as an EMT-Basic or EMT-Intermediate and |
| ELECT278RF Communications5ELECT279RF Communications Lab4ELECT294Microwave, CATV, and Satellite Communications5ELECT295Microwave, CATV, and Satellite Communications Lab4 | This program is for personnel who provide advanced emergency care under a supervising physician through direct radio communication and written standing orders. Applicants must be individuals with at least one year of prior experience as an EMT-Basic or EMT-Intermediate and have completed two quarters of college level anatomy and physiology |
| ELECT 278 RF Communications | This program is for personnel who provide advanced emergency care under a supervising physician through direct radio communication and written standing orders. Applicants must be individuals with at least one year of prior experience as an EMT-Basic or EMT-Intermediate and have completed two quarters of college level anatomy and physiology (HED 108, 109) with a 2.0 grade or better within the last five years prior |
| ELECT 278 RF Communications | This program is for personnel who provide advanced emergency care under a supervising physician through direct radio communication and written standing orders. Applicants must be individuals with at least one year of prior experience as an EMT-Basic or EMT-Intermediate and have completed two quarters of college level anatomy and physiology (HED 108, 109) with a 2.0 grade or better within the last five years prior to acceptance into the program. It is strongly recommend that students |
| ELECT 278 RF Communications | This program is for personnel who provide advanced emergency care under a supervising physician through direct radio communication and written standing orders. Applicants must be individuals with at least one year of prior experience as an EMT-Basic or EMT-Intermediate and have completed two quarters of college level anatomy and physiology (HED 108, 109) with a 2.0 grade or better within the last five years prior to acceptance into the program. It is strongly recommend that students complete A-P 242 and 243 prior to entering the Emergency Medical |
| ELECT 278 RF Communications | This program is for personnel who provide advanced emergency care under a supervising physician through direct radio communication and written standing orders. Applicants must be individuals with at least one year of prior experience as an EMT-Basic or EMT-Intermediate and have completed two quarters of college level anatomy and physiology (HED 108, 109) with a 2.0 grade or better within the last five years prior to acceptance into the program. It is strongly recommend that students complete A-P 242 and 243 prior to entering the Emergency Medical |
| ELECT 278 RF Communications | This program is for personnel who provide advanced emergency care under a supervising physician through direct radio communication and written standing orders. Applicants must be individuals with at least one year of prior experience as an EMT-Basic or EMT-Intermediate and have completed two quarters of college level anatomy and physiology (HED 108, 109) with a 2.0 grade or better within the last five years prior to acceptance into the program. It is strongly recommend that students |
| ELECT 278 RF Communications | This program is for personnel who provide advanced emergency care under a supervising physician through direct radio communication and written standing orders. Applicants must be individuals with at least one year of prior experience as an EMT-Basic or EMT-Intermediate and have completed two quarters of college level anatomy and physiology (HED 108, 109) with a 2.0 grade or better within the last five years prior to acceptance into the program. It is strongly recommend that students complete A-P 242 and 243 prior to entering the Emergency Medical Technician (Paramedic) program. Additional admission requirements |
| ELECT 278 RF Communications | This program is for personnel who provide advanced emergency care under a supervising physician through direct radio communication and written standing orders. Applicants must be individuals with at least one year of prior experience as an EMT-Basic or EMT-Intermediate and have completed two quarters of college level anatomy and physiology (HED 108, 109) with a 2.0 grade or better within the last five years prior to acceptance into the program. It is strongly recommend that students complete A-P 242 and 243 prior to entering the Emergency Medical Technician (Paramedic) program. Additional admission requirements are listed on the attached student requirement sheet. Students may |
| ELECT 278 RF Communications | This program is for personnel who provide advanced emergency care under a supervising physician through direct radio communication and written standing orders. Applicants must be individuals with at least one year of prior experience as an EMT-Basic or EMT-Intermediate and have completed two quarters of college level anatomy and physiology (HED 108, 109) with a 2.0 grade or better within the last five years prior to acceptance into the program. It is strongly recommend that students complete A-P 242 and 243 prior to entering the Emergency Medical Technician (Paramedic) program. Additional admission requirements are listed on the attached student requirement sheet. Students may complete the 4-quarter certificate requirements in emergency medical technician-paramedic or complete the required certificate courses and |
| ELECT 278 RF Communications | This program is for personnel who provide advanced emergency care under a supervising physician through direct radio communication and written standing orders. Applicants must be individuals with at least one year of prior experience as an EMT-Basic or EMT-Intermediate and have completed two quarters of college level anatomy and physiology (HED 108, 109) with a 2.0 grade or better within the last five years prior to acceptance into the program. It is strongly recommend that students complete A-P 242 and 243 prior to entering the Emergency Medical Technician (Paramedic) program. Additional admission requirements are listed on the attached student requirement sheet. Students may complete the 4-quarter certificate requirements in emergency medical technician-paramedic or complete the required certificate courses and the additional arts and sciences course requirements to receive an A.A.S. |
| ELECT 278 RF Communications | This program is for personnel who provide advanced emergency care under a supervising physician through direct radio communication and written standing orders. Applicants must be individuals with at least one year of prior experience as an EMT-Basic or EMT-Intermediate and have completed two quarters of college level anatomy and physiology (HED 108, 109) with a 2.0 grade or better within the last five years prior to acceptance into the program. It is strongly recommend that students complete A-P 242 and 243 prior to entering the Emergency Medical Technician (Paramedic) program. Additional admission requirements are listed on the attached student requirements sheet. Students may complete the 4-quarter certificate requirements in emergency medical technician-paramedic or complete the required certificate courses and the additional arts and sciences course requirements to receive an A.A.S. degree. Students may enroll in arts and sciences either preceding or |
| ELECT 278 RF Communications | This program is for personnel who provide advanced emergency care under a supervising physician through direct radio communication and written standing orders. Applicants must be individuals with at least one year of prior experience as an EMT-Basic or EMT-Intermediate and have completed two quarters of college level anatomy and physiology (HED 108, 109) with a 2.0 grade or better within the last five years prior to acceptance into the program. It is strongly recommend that students complete A-P 242 and 243 prior to entering the Emergency Medical Technician (Paramedic) program. Additional admission requirements are listed on the attached student requirements sheet. Students may complete the 4-quarter certificate requirements in emergency medical technician-paramedic or complete the required certificate courses and the additional arts and sciences course requirements to receive an A.A.S. degree. Students may enroll in arts and sciences either preceding or following the 4-quarter certificate curriculum. A 2.0 grade or better must |
| ELECT 278 RF Communications | This program is for personnel who provide advanced emergency care under a supervising physician through direct radio communication and written standing orders. Applicants must be individuals with at least one year of prior experience as an EMT-Basic or EMT-Intermediate and have completed two quarters of college level anatomy and physiology (HED 108, 109) with a 2.0 grade or better within the last five years prior to acceptance into the program. It is strongly recommend that students complete A-P 242 and 243 prior to entering the Emergency Medical Technician (Paramedic) program. Additional admission requirements are listed on the attached student requirements sheet. Students may complete the 4-quarter certificate requirements in emergency medical technician-paramedic or complete the required certificate courses and the additional arts and sciences course requirements to receive an A.A.S. degree. Students may enroll in arts and sciences either preceding or |
| ELECT 278 RF Communications | This program is for personnel who provide advanced emergency care under a supervising physician through direct radio communication and written standing orders. Applicants must be individuals with at least one year of prior experience as an EMT-Basic or EMT-Intermediate and have completed two quarters of college level anatomy and physiology (HED 108, 109) with a 2.0 grade or better within the last five years prior to acceptance into the program. It is strongly recommend that students complete A-P 242 and 243 prior to entering the Emergency Medical Technician (Paramedic) program. Additional admission requirements are listed on the attached student requirement sheet. Students may complete the 4-quarter certificate requirements in emergency medical technician-paramedic or complete the required certificate courses and the additional arts and sciences course requirements to receive an A.A.S. degree. Students may enroll in arts and sciences either preceding or following the 4-quarter certificate curriculum. A 2.0 grade or better must be maintained in all classes. |
| ELECT 278 RF Communications | This program is for personnel who provide advanced emergency care under a supervising physician through direct radio communication and written standing orders. Applicants must be individuals with at least one year of prior experience as an EMT-Basic or EMT-Intermediate and have completed two quarters of college level anatomy and physiology (HED 108, 109) with a 2.0 grade or better within the last five years prior to acceptance into the program. It is strongly recommend that students complete A-P 242 and 243 prior to entering the Emergency Medical Technician (Paramedic) program. Additional admission requirements are listed on the attached student requirement sheet. Students may complete the 4-quarter certificate requirements in emergency medical technician-paramedic or complete the required certificate courses and the additional arts and sciences course requirements to receive an A.A.S. degree. Students may enroll in arts and sciences either preceding or following the 4-quarter certificate curriculum. A 2.0 grade or better must be maintained in all classes. Certificate |
| ELECT 279 RF Communications | This program is for personnel who provide advanced emergency care under a supervising physician through direct radio communication and written standing orders. Applicants must be individuals with at least one year of prior experience as an EMT-Basic or EMT-Intermediate and have completed two quarters of college level anatomy and physiology (HED 108, 109) with a 2.0 grade or better within the last five years prior to acceptance into the program. It is strongly recommend that students complete A-P 242 and 243 prior to entering the Emergency Medical Technician (Paramedic) program. Additional admission requirements are listed on the attached student requirement sheet. Students may complete the 4-quarter certificate requirements in emergency medical technician-paramedic or complete the required certificate courses and the additional arts and sciences course requirements to receive an A.A.S. degree. Students may enroll in arts and sciences either preceding or following the 4-quarter certificate curriculum. A 2.0 grade or better must be maintained in all classes. Certificate First Quarter |
| ELECT 279 RF Communications Lab | This program is for personnel who provide advanced emergency care under a supervising physician through direct radio communication and written standing orders. Applicants must be individuals with at least one year of prior experience as an EMT-Basic or EMT-Intermediate and have completed two quarters of college level anatomy and physiology (HED 108, 109) with a 2.0 grade or better within the last five years prior to acceptance into the program. It is strongly recommend that students complete A-P 242 and 243 prior to entering the Emergency Medical Technician (Paramedic) program. Additional admission requirements are listed on the attached student requirement sheet. Students may complete the 4-quarter certificate requirements in emergency medical technician-paramedic or complete the required certificate courses and the additional arts and sciences course requirements to receive an A.A.S. degree. Students may enroll in arts and sciences either preceding or following the 4-quarter certificate curriculum. A 2.0 grade or better must be maintained in all classes. Certificate First Quarter APLED 112 Applied Mathematics |
| ELECT 278 RF Communications | This program is for personnel who provide advanced emergency care under a supervising physician through direct radio communication and written standing orders. Applicants must be individuals with at least one year of prior experience as an EMT-Basic or EMT-Intermediate and have completed two quarters of college level anatomy and physiology (HED 108, 109) with a 2.0 grade or better within the last five years prior to acceptance into the program. It is strongly recommend that students complete A-P 242 and 243 prior to entering the Emergency Medical Technician (Paramedic) program. Additional admission requirements are listed on the attached student requirements sheet. Students may complete the 4-quarter certificate requirements in emergency medical technician-paramedic or complete the required certificate courses and the additional arts and sciences course requirements to receive an A.A.S. degree. Students may enroll in arts and sciences either preceding or following the 4-quarter certificate curriculum. A 2.0 grade or better must be maintained in all classes. Certificate First Quarter APLED 112 Applied Mathematics |
| ELECT 278 RF Communications | This program is for personnel who provide advanced emergency care under a supervising physician through direct radio communication and written standing orders. Applicants must be individuals with at least one year of prior experience as an EMT-Basic or EMT-Intermediate and have completed two quarters of college level anatomy and physiology (HED 108, 109) with a 2.0 grade or better within the last five years prior to acceptance into the program. It is strongly recommend that students complete A-P 242 and 243 prior to entering the Emergency Medical Technician (Paramedic) program. Additional admission requirements are listed on the attached student requirement sheet. Students may complete the 4-quarter certificate requirements in emergency medical technician-paramedic or complete the required certificate courses and the additional arts and sciences course requirements to receive an A.A.S. degree. Students may enroll in arts and sciences either preceding or following the 4-quarter certificate curriculum. A 2.0 grade or better must be maintained in all classes. Certificate First Quarter APLED 112 Applied Mathematics |
| ELECT 278 RF Communications | This program is for personnel who provide advanced emergency care under a supervising physician through direct radio communication and written standing orders. Applicants must be individuals with at least one year of prior experience as an EMT-Basic or EMT-Intermediate and have completed two quarters of college level anatomy and physiology (HED 108, 109) with a 2.0 grade or better within the last five years prior to acceptance into the program. It is strongly recommend that students complete A-P 242 and 243 prior to entering the Emergency Medical Technician (Paramedic) program. Additional admission requirements are listed on the attached student requirements sheet. Students may complete the 4-quarter certificate requirements in emergency medical technician-paramedic or complete the required certificate courses and the additional arts and sciences course requirements to receive an A.A.S. degree. Students may enroll in arts and sciences either preceding or following the 4-quarter certificate curriculum. A 2.0 grade or better must be maintained in all classes. Certificate First Quarter APLED 112 Applied Mathematics |
| ELECT 278 RF Communications | This program is for personnel who provide advanced emergency care under a supervising physician through direct radio communication and written standing orders. Applicants must be individuals with at least one year of prior experience as an EMT-Basic or EMT-Intermediate and have completed two quarters of college level anatomy and physiology (HED 108, 109) with a 2.0 grade or better within the last five years prior to acceptance into the program. It is strongly recommend that students complete A-P 242 and 243 prior to entering the Emergency Medical Technician (Paramedic) program. Additional admission requirements are listed on the attached student requirement sheet. Students may complete the 4-quarter certificate requirements in emergency medical technician-paramedic or complete the required certificate courses and the additional arts and sciences course requirements to receive an A.A.S. degree. Students may enroll in arts and sciences either preceding or following the 4-quarter certificate curriculum. A 2.0 grade or better must be maintained in all classes. Certificate First Quarter APLED 112 Applied Mathematics |
| ELECT 278 RF Communications | This program is for personnel who provide advanced emergency care under a supervising physician through direct radio communication and written standing orders. Applicants must be individuals with at least one year of prior experience as an EMT-Basic or EMT-Intermediate and have completed two quarters of college level anatomy and physiology (HED 108, 109) with a 2.0 grade or better within the last five years prior to acceptance into the program. It is strongly recommend that students complete A-P 242 and 243 prior to entering the Emergency Medical Technician (Paramedic) program. Additional admission requirements are listed on the attached student requirement sheet. Students may complete the 4-quarter certificate requirements in emergency medical technician-paramedic or complete the required certificate courses and the additional arts and sciences course requirements to receive an A.A.S. degree. Students may enroll in arts and sciences either preceding or following the 4-quarter certificate curriculum. A 2.0 grade or better must be maintained in all classes. Certificate First Quarter APLED 112 Applied Mathematics |
| ELECT 278 RF Communications | This program is for personnel who provide advanced emergency care under a supervising physician through direct radio communication and written standing orders. Applicants must be individuals with at least one year of prior experience as an EMT-Basic or EMT-Intermediate and have completed two quarters of college level anatomy and physiology (HED 108, 109) with a 2.0 grade or better within the last five years prior to acceptance into the program. It is strongly recommend that students complete A-P 242 and 243 prior to entering the Emergency Medical Technician (Paramedic) program. Additional admission requirements are listed on the attached student requirement sheet. Students may complete the 4-quarter certificate requirements in emergency medical technician-paramedic or complete the required certificate courses and the additional arts and sciences course requirements to receive an A.A.S. degree. Students may enroll in arts and sciences either preceding or following the 4-quarter certificate curriculum. A 2.0 grade or better must be maintained in all classes. Certificate First Quarter APLED 112 Applied Mathematics |
| ELECT 278 RF Communications | This program is for personnel who provide advanced emergency care under a supervising physician through direct radio communication and written standing orders. Applicants must be individuals with at least one year of prior experience as an EMT-Basic or EMT-Intermediate and have completed two quarters of college level anatomy and physiology (HED 108, 109) with a 2.0 grade or better within the last five years prior to acceptance into the program. It is strongly recommend that students complete A-P 242 and 243 prior to entering the Emergency Medical Technician (Paramedic) program. Additional admission requirements are listed on the attached student requirement sheet. Students may complete the 4-quarter certificate requirements in emergency medical technician-paramedic or complete the required certificate courses and the additional arts and sciences course requirements to receive an A.A.S. degree. Students may enroll in arts and sciences either preceding or following the 4-quarter certificate curriculum. A 2.0 grade or better must be maintained in all classes. Certificate First Quarter APLED 112 Applied Mathematics 3 LIFE 131 Advanced Life Support I 14 Total 17 Second Quarter APLED 123 Leadership Skills for Business and Industry 3 LIFE 132 Advanced Life Support II 15 Total 18 |
| ELECT 278 RF Communications | This program is for personnel who provide advanced emergency care under a supervising physician through direct radio communication and written standing orders. Applicants must be individuals with at least one year of prior experience as an EMT-Basic or EMT-Intermediate and have completed two quarters of college level anatomy and physiology (HED 108, 109) with a 2.0 grade or better within the last five years prior to acceptance into the program. It is strongly recommend that students complete A-P 242 and 243 prior to entering the Emergency Medical Technician (Paramedic) program. Additional admission requirements are listed on the attached student requirement sheet. Students may complete the 4-quarter certificate requirements in emergency medical technician-paramedic or complete the required certificate courses and the additional arts and sciences course requirements to receive an A.A.S. degree. Students may enroll in arts and sciences either preceding or following the 4-quarter certificate curriculum. A 2.0 grade or better must be maintained in all classes. Certificate First Quarter APLED 112 Applied Mathematics 3 LIFE 131 Advanced Life Support I 14 Total 17 Second Quarter APLED 123 Leadership Skills for Business and Industry 3 LIFE 132 Advanced Life Support II 15 Total 18 Third Quarter |
| ELECT 278 RF Communications | This program is for personnel who provide advanced emergency care under a supervising physician through direct radio communication and written standing orders. Applicants must be individuals with at least one year of prior experience as an EMT-Basic or EMT-Intermediate and have completed two quarters of college level anatomy and physiology (HED 108, 109) with a 2.0 grade or better within the last five years prior to acceptance into the program. It is strongly recommend that students complete A-P 242 and 243 prior to entering the Emergency Medical Technician (Paramedic) program. Additional admission requirements are listed on the attached student requirement sheet. Students may complete the 4-quarter certificate requirements in emergency medical technician-paramedic or complete the required certificate courses and the additional arts and sciences course requirements to receive an A.A.S. degree. Students may enroll in arts and sciences either preceding or following the 4-quarter certificate curriculum. A 2.0 grade or better must be maintained in all classes. Certificate First Quarter APLED 112 Applied Mathematics |
| ELECT 279 RF Communications | This program is for personnel who provide advanced emergency care under a supervising physician through direct radio communication and written standing orders. Applicants must be individuals with at least one year of prior experience as an EMT-Basic or EMT-Intermediate and have completed two quarters of college level anatomy and physiology (HED 108, 109) with a 2.0 grade or better within the last five years prior to acceptance into the program. It is strongly recommend that students complete A-P 242 and 243 prior to entering the Emergency Medical Technician (Paramedic) program. Additional admission requirements are listed on the attached student requirement sheet. Students may complete the 4-quarter certificate requirements in emergency medical technician-paramedic or complete the required certificate courses and the additional arts and sciences course requirements to receive an A.A.S. degree. Students may enroll in arts and sciences either preceding or following the 4-quarter certificate curriculum. A 2.0 grade or better must be maintained in all classes. Certificate First Quarter APLED 112 Applied Mathematics 3 LIFE 131 Advanced Life Support I 14 Total 17 Second Quarter APLED 123 Leadership Skills for Business and Industry 3 LIFE 132 Advanced Life Support II 15 Total 18 Third Quarter |
| ELECT 279 RF Communications Lab. 4 ELECT 294 Microwave, CATV, and Satellite Communications Lab 4 Total 18 Summer Quarter² ELECT 266 Cooperative Education Seminar AND 1 ELECT 288 Cooperative Education Work Experience OR 10 ELECT 288 Cooperative Education Work Experience (No Seminar) .11 Total 11 Electronics Maintenance Technician Option Sixth Quarter The student selects 18 credits from electronics, electrical maintenance and automation, hydraulic and pneumatic automation technology or any related course that is approved by the department chair or the technical education division dean. Seventh Quarter The student selects 18 credits from electrical maintenance and automation program, hydraulic and pneumatic automation technology or any related course that is approved by the department chair or the technical education division dean. Seventh Quarter The student selects 18 credits from electrical maintenance and automation program, hydraulic and pneumatic automation technology or any related course that is approved by the department chair or the technical education division dean. Biomedical Equipment Technician This option is a separate degree program that requires the applicant to take the first five quarters of the electronics engineering technician program. Please see the Career Planning Guide for this option. Electronics Engineering Technician Certificate First Quarter | This program is for personnel who provide advanced emergency care under a supervising physician through direct radio communication and written standing orders. Applicants must be individuals with at least one year of prior experience as an EMT-Basic or EMT-Intermediate and have completed two quarters of college level anatomy and physiology (HED 108, 109) with a 2.0 grade or better within the last five years prior to acceptance into the program. It is strongly recommend that students complete A-P 242 and 243 prior to entering the Emergency Medical Technician (Paramedic) program. Additional admission requirements are listed on the attached student requirements heet. Students may complete the 4-quarter certificate requirements in emergency medical technician-paramedic or complete the required certificate courses and the additional arts and sciences course requirements to receive an A.A.S. degree. Students may enroll in arts and sciences either preceding or following the 4-quarter certificate curriculum. A 2.0 grade or better must be maintained in all classes. Certificate First Quarter APLED 112 Applied Mathematics 3 LIFE 131 Advanced Life Support I 14 Total 17 Second Quarter APLED 123 Leadership Skills for Business and Industry 3 LIFE 134 Advanced Life Support II 15 Total 18 Third Quarter LIFE 135 Advanced Life Support III 18 Total 18 |
| ELECT 278 RF Communications | This program is for personnel who provide advanced emergency care under a supervising physician through direct radio communication and written standing orders. Applicants must be individuals with at least one year of prior experience as an EMT-Basic or EMT-Intermediate and have completed two quarters of college level anatomy and physiology (HED 108, 109) with a 2.0 grade or better within the last five years prior to acceptance into the program. It is strongly recommend that students complete A-P 242 and 243 prior to entering the Emergency Medical Technician (Paramedic) program. Additional admission requirements are listed on the attached student requirements sheet. Students may complete the 4-quarter certificate requirements in emergency medical technician-paramedic or complete the required certificate courses and the additional arts and sciences course requirements to receive an A.A.S. degree. Students may enroll in arts and sciences either preceding or following the 4-quarter certificate curriculum. A 2.0 grade or better must be maintained in all classes. Certificate First Quarter APLED 112 Applied Mathematics |
| ELECT 279 RF Communications Lab. 4 ELECT 294 Microwave, CATV, and Satellite Communications Lab 4 Total 18 Summer Quarter² ELECT 266 Cooperative Education Seminar AND 1 ELECT 288 Cooperative Education Work Experience OR 10 ELECT 288 Cooperative Education Work Experience (No Seminar) .11 Total 11 Electronics Maintenance Technician Option Sixth Quarter The student selects 18 credits from electronics, electrical maintenance and automation, hydraulic and pneumatic automation technology or any related course that is approved by the department chair or the technical education division dean. Seventh Quarter The student selects 18 credits from electrical maintenance and automation program, hydraulic and pneumatic automation technology or any related course that is approved by the department chair or the technical education division dean. Seventh Quarter The student selects 18 credits from electrical maintenance and automation program, hydraulic and pneumatic automation technology or any related course that is approved by the department chair or the technical education division dean. Biomedical Equipment Technician This option is a separate degree program that requires the applicant to take the first five quarters of the electronics engineering technician program. Please see the Career Planning Guide for this option. Electronics Engineering Technician Certificate First Quarter | This program is for personnel who provide advanced emergency care under a supervising physician through direct radio communication and written standing orders. Applicants must be individuals with at least one year of prior experience as an EMT-Basic or EMT-Intermediate and have completed two quarters of college level anatomy and physiology (HED 108, 109) with a 2.0 grade or better within the last five years prior to acceptance into the program. It is strongly recommend that students complete A-P 242 and 243 prior to entering the Emergency Medical Technician (Paramedic) program. Additional admission requirements are listed on the attached student requirements sheet. Students may complete the 4-quarter certificate requirements in emergency medical technician-paramedic or complete the required certificate courses and the additional arts and sciences course requirements to receive an A.A.S. degree. Students may enroll in arts and sciences either preceding or following the 4-quarter certificate curriculum. A 2.0 grade or better must be maintained in all classes. Certificate First Quarter APLED 112 Applied Mathematics |
| ELECT 278 RF Communications | This program is for personnel who provide advanced emergency care under a supervising physician through direct radio communication and written standing orders. Applicants must be individuals with at least one year of prior experience as an EMT-Basic or EMT-Intermediate and have completed two quarters of college level anatomy and physiology (HED 108, 109) with a 2.0 grade or better within the last five years prior to acceptance into the program. It is strongly recommend that students complete A-P 242 and 243 prior to entering the Emergency Medical Technician (Paramedic) program. Additional admission requirements are listed on the attached student requirement sheet. Students may complete the 4-quarter certificate requirements in emergency medical technician-paramedic or complete the required certificate courses and the additional arts and sciences course requirements to receive an A.A.S. degree. Students may enroll in arts and sciences either preceding or following the 4-quarter certificate curriculum. A 2.0 grade or better must be maintained in all classes. Certificate First Quarter APLED 112 Applied Mathematics |
| ELECT 278 RF Communications | This program is for personnel who provide advanced emergency care under a supervising physician through direct radio communication and written standing orders. Applicants must be individuals with at least one year of prior experience as an EMT-Basic or EMT-Intermediate and have completed two quarters of college level anatomy and physiology (HED 108, 109) with a 2.0 grade or better within the last five years prior to acceptance into the program. It is strongly recommend that students complete A-P 242 and 243 prior to entering the Emergency Medical Technician (Paramedic) program. Additional admission requirements are listed on the attached student requirements sheet. Students may complete the 4-quarter certificate requirements in emergency medical technician-paramedic or complete the required certificate courses and the additional arts and sciences course requirements to receive an A.A.S. degree. Students may enroll in arts and sciences either preceding or following the 4-quarter certificate curriculum. A 2.0 grade or better must be maintained in all classes. Certificate First Quarter APLED 112 Applied Mathematics |

ELECT 112 DC/AC Circuit Lab. 5
ELECT 113 DC/AC Circuit Math 5

Total 19

numbered 100 or above in addition to the 1-year certificate curriculum (listed above). Students may enroll in arts and sciences courses either preceding or following the 4-quarter certificate curriculum. A 2.0 grade or better must be maintained in all classes.

Required Courses for Optional A.A.S. Degree

Arts and Sciences Curriculum¹

| | | Total |
|------|-----|--------------------------------|
| ENG | 101 | English Composition |
| BIOL | 101 | General Biology 5 |
| | | Human Anatomy and Physiology 5 |
| A-P | 242 | Human Anatomy and Physiology 5 |

OPTIONAL ELECTIVES TO CONSIDER1:

| | | Total | 7 |
|-----|-----|--|---|
| | | Electives: Computer, Speech, Math/Science, Chemistry | 2 |
| ENG | 201 | Advanced English Composition | 5 |

101 credits are required for an A.A.S. degree and 74 credits are required for a certificate

ESTHETICIAN

Certificate: SCC

Students enrolling in the esthetics 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.

First Quarter

| COS | 123 | Esthetics Concepts I | 1 |
|--------|-----|---------------------------------|---|
| COS | | Esthetics Applications I | |
| COS | 127 | Advanced Esthetic Concepts | l |
| ISFTY | 111 | Industrial First Aid |) |
| | | Total | 7 |
| Second | Qua | rter | |
| COS | 125 | Esthetics Concepts II | 1 |
| COS | 126 | Esthetics Applications II |) |
| COS | 227 | Advanced Esthetics Applications |) |
| | | Total 16 | |

33 credits are required for a certificate.

FASHION MERCHANDISING

A.A.S. Degree: SFCC

Fashion merchandising is a two-year program designed to prepare both men and women for a career in the retail merchandising field. Professional courses stress the fashion concept as it applies to apparel and nonapparel merchandise, as well as a thorough understanding of buying, promotion and inventory systems.

FIRST YEAR

First Quarter

| | | Total | 15 |
|-------|-----|--|----|
| | | Elective | 1 |
| MMGT | 181 | Leadership Training-DEC OR | |
| MMGT | 218 | Fundamentals of Advertising | 5 |
| | | Principles of Retail Promotion OR | |
| FMDSE | 155 | Fashion Trends | 3 |
| | | Principles of Retail Merchandising | |
| FMDSE | 111 | Fashion Merchandising Seminar ¹ | 1 |
| | | | |

Second Quarter

| FMDSE FMDSE FMDSE | 112 160 152 | Fashion Merchandising Seminar ¹ |
|-------------------------|-------------------|---|
| TWIDSE | 152 | Elective |
| FMDSE | 180 | Retail Sales Techniques |
| MMGT | 182 | Leadership Training-DEC OR |
| | | Elective |
| | | Required or Elective Courses |
| | | |
| Third Q | • | |
| FMDSE | | Fashion Merchandising Seminar ¹ |
| FMDSE | 201 | Fashion Fabrics ² |
| FMDSE MMGT | | Merchandising Management 5 Leadership Training-DEC 1 |
| MIMGI | 103 | Required or Elective Courses |
| | | Total |
| CECON | D VE | |
| SECON | | |
| Fourth | Quar | |
| | | Required or Elective Courses |
| | | Total |
| Fifth Q | uarte | |
| | | Required or Elective Courses |
| | | Total |
| Sixth Q | uarte | |
| | | Required or Elective Courses |
| | | Total |
| REOUIR | RED C | OURSES: |
| ВТ | 107 | Business Communications ³ |
| BT | 272 | Business Correspondence 5 |
| ENG | 109 | Speech Composition AND |
| SPCH | 101 | Introduction to Speech Communication |
| FMDSE | 267 | Cooperative Education Work Experience ² |
| GBUS | 101 | Introduction to Business |
| GBUS MMGT | 103 211 | Basic Business Math and Electronic Calculators |
| | | - |
| ın additi | on to | the required courses listed above, 23 elective credits from |

In addition to the required courses listed above, 23 elective credits from Group A and B below must be obtained for graduation requirement of 95 credits. Choose a minimum of 15 credits from Group A and 8 credits from Group B. These courses are to be taken throughout the two-year program.

GROUP A-BUSINESS ELECTIVES:

| ACCT | 101 | Principles of Accounting 5 |
|-------------|-----|---|
| ACCT | 102 | Principles of Accounting 5 |
| BT | 101 | Keyboarding5 |
| CAPPS | 102 | Introduction to Office |
| CAPPS | 110 | Word |
| CAPPS | 112 | Excel |
| CAPPS | 114 | Access |
| ECON | 201 | Introduction to Macroeconomics 5 |
| ECON | 202 | Introduction to Microeconomics 5 |
| GBUS | 100 | Money Management |
| GBUS | 205 | Business Law |
| GBUS | 217 | Business Statistics |
| GBUS | 280 | Human Relations in Business 5 |
| IS | 120 | Business Computer Use |
| MMGT | 101 | Principles of Management 5 |
| MMGT | 231 | Human Resource Management 5 |
| MMGT | 270 | Conference Preparation Techniques 1-5 |
| | | Merchandising Seminars or other approved business courses |

GROUP B4-ELECTIVES:

| ART | 105 | Color and Design |
|--------------|-----|--------------------|
| FMDSE | 161 | Merchandise Trends |

- 1 Required of all first-year students.
- 2 Must be taken concurrently with seminar.
- 3 ENG 101 may be substituted for BT 107 and 108.
- 4 Any interior design course. Other home economics and art courses approved by the fashion merchandising coordinator.

¹ These courses must be completed within a five year period preceding or following the 4-quarter certificate curriculum with a 2.0 grade or better.

FINANCIAL SERVICES/TELLER

Certificate: SCC

This program prepares students for employment as bank tellers. The program includes a basic introduction to teller qualifications, duties and responsibilities. Also included are money handling, transactions, negotiable instruments, checking and savings systems, bank services, bank security, the use of teller equipment and a variety of functions common to the banking industry. In the second quarter students gain skills in math, 10-key calculators, computer usage and writing. They also may select one elective business class from a list of options.

First Quarter

| BT | 100 | Keyboarding for Computers |
|------|-----|-------------------------------------|
| | | Introduction to Banking Industry4 |
| BANK | 102 | Professional Standards in Banking |
| BANK | 103 | Introduction to Teller Operations 4 |
| BANK | 104 | Teller Operations Applications |
| | | Total |

Second Quarter

| Second | Qua | rter |
|--------|-----|--|
| APLED | 121 | Applied Written Communication ¹ 4 |
| CIS | 110 | Introduction to Computer Applications |
| GBUS | 103 | Basic Business Math and Electronic Calculators 5 |
| | | Business Elective ² |
| | | Total17-19 |

30-32 credits are required for a certificate.

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

| 2 | Business | elective | e classes may include the following: |
|---|----------|----------|--------------------------------------|
| | GBUS | 100 | Money Management |
| | GBUS | 101 | <i>Introduction to Business</i> 5 |
| | GBUS | 280 | Human Relations in Business 5 |

Students should confer with their instructors before registering for electives.

Financial Services/Trainee Certificate

This short-term training program introduces students to the basic elements necessary for entry-level employment as a bank teller. Areas of study include lecture and practical applications in money handling transactions, negotiable instruments, checking and savings systems, bank services, bank security, the use of teller equipment and a variety of functions common to the banking industry.

First Quarter

| | | Total | 3 |
|------|-----|-----------------------------------|---|
| BANK | 104 | Teller Operations Applications | 3 |
| BANK | 103 | Introduction to Teller Operations | 4 |
| BANK | 102 | Professional Standards in Banking | 1 |
| BANK | 101 | Introduction to Banking Industry | 4 |
| BT | 100 | Keyboarding for Computers | 1 |

13 credits are required for a certificate.

FIRE OFFICER

A.A.S. Degree: 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.

FIRST YEAR

| CIS | 110 | Introduction to Computer Applications 5 |
|------|-----|---|
| CHEM | 100 | Survey of Chemistry5 |
| ENG | 101 | English Composition |
| ENG | 109 | Speech Composition AND |
| SPCH | 101 | Introduction to Speech Communication 5 |
| ENG | 201 | Advanced English Composition 5 |
| | | |

| MATH PHYS PSYCH SOC SPCH | 201 100 101 101 220 | Introduction to Finite Mathematics Introductory Physics Introduction to Psychology Introduction to Sociology Intercultural Communication Total | 5 5 5 |
|--|---|---|----------------------------|
| SECON | D YE | AR | |
| FOD FOD FOD FOD FOD FOD FOD FOD | 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. Electives ¹ . | 3 3 3 2 3 3 |
| WORK | BASE | D LEARNING COURSES: | |
| FOD FOD FOD FOD | 102 104 132 202 204 | Fire Officer IA Work Based Learning | 3 3 3 |
| 97-98 cr ¹ Electiv FOD | e Cred | are required for an A.A.S. degree. lits: 5 Fire Investigation | 3 |

FIRE SCIENCE TECHNOLOGY

A.A.S. Degree: 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. Upon completion of the program, students are required to attend EMT training by the third quarter of the program. They are then eligible for a firefighter certification.

| First (| Quarte | r |
|---------|--------|--|
| FS | 100 | Orientation to Fire Science ^{1,2} |
| FS | 211 | Introduction to Fire Science 4 |
| FS | 212 | Fire Science Applications I 6 |
| FS | 152 | Building Construction |
| | | PE Elective ⁷ |
| | | Total16 |
| Secor | nd Qua | rter |
| FS | 221 | Intermediate Fire Science 4 |
| FS | 222 | Fire Science Applications II |
| FS | 170 | Hazardous Materials I |
| | | PE Elective ⁷ |
| | | Total |
| Third | Quart | er |
| FS | 177 | Wildland Fire Operations ⁴ |
| FS | 160 | Fire Tactics |
| FS | 231 | Advanced Fire Science4 |
| FS | 232 | Fire Science Applications III 6 |
| | | PE Elective ⁷ |
| | | Total 17 |
| | | |

SECOND YEAR

| Fourth | Quai | rter |
|---------------------------------------|--|--|
| CIS ENG FS | 110 101 105 | Introduction to Computer Applications. 5 English Composition 5 Principles of Hydraulics 4 Math ⁶ 5 PE Elective ⁷ 1 |
| Fifth Qu | ıarte | Total |
| CHEM ENG SPCH FS FS | 100 109 101 220 233 | Survey of Chemistry. 5 Speech Composition ⁵ AND Introduction to Speech Communications 5 Fire Protection Systems 2 Professional Development 2 PE Elective ⁷ 1 Total 15 |
| Sixth Q | uart | er |
| ENG FS FS FS PHYS SPCH | 201 266 267 288 100 220 | Advanced English Composition |

101 credits are required for the A.A.S. degree.

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

EMT is a condition of graduation and must be obtained by the third quarter.

- ¹ First year pre-entry fire science students only.
- ² This course is offered in fall quarter only.
- ³ This course is offered in winter quarter only.
- ⁴ This course is offered in spring quarter only.
- 5 This course may be substituted with any related course "combination of related courses approved by the instructional dean".
- 6 This math course requirement may be met by any transferable college level math course.
- List of approved P.E. courses: AQUAT 136, CJ 131, 132, 133, 241, 242, 243, PE 106, 117, 139, 185, 186, 187, 206, 217, 239, 285, 286, 287.

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.

090 Basic Grammar for Business II 5

 231 Office Procedures
 5

 223 Customer Service
 3

 Total
 16

101 Keyboarding.....

First Quarter

ВТ

BT

ВТ

| BT | 151 | Business Student Preparation | | |
|-------------|----------------------------|--|--|--|
| | | Total | | |
| Second | l Qua | rter | | |
| BT | 102 | Document Processing ¹ 5 | | |
| BT | 109 | Business Communications 5 | | |
| CATT | 102 | Introduction to Outlook | | |
| GBUS | 103 | Basic Business Math and Electronic Calculators 5 | | |
| | | Total17.5 | | |
| Third (| Third Quarter ² | | | |
| BT | 160 | Job Preparation Techniques | | |
| BT | 165 | Word Processing | | |

48.5 credits are required for the certificate.

- ¹ Keyboarding proficiency of 30 wpm for three minutes with no more than six errors is a prerequisite for BT 102.
- ² To enter the third quarter of this program, students must pass competency tests in the following areas:
 - *Math (fractions, percentages, etc.)*
 - Writing (write a basic letter, memo, and/or e-mail with correct spelling, punctuation, grammar, etc.)
 - Format documents from unarranged copy in a timed situation (letters, memos, reports, tables) using Word
 - Keyboarding proficiency of 40 wpm

GERONTOLOGY PARAPROFESSIONAL

A.A.S. Degree, 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 A.A.S. 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.

| First Qu | ıarte | r | |
|--------------------------------|-------------------|--|-------------|
| HS HS HSSUB | 102 136 131 | Introduction to Human Services | 5 3 5 |
| Cacand | 0 | | , |
| Second HS HSGER HSGER | 105 101 | Child Abuse | 5 |
| Third Q | uart | er | |
| ENG HS HSSOC | 101 115 115 | English Composition | 5 |
| HSSOC HSGER | 221 115 | Treatment Theories in Human Services | |
| HSGER | 201 | Aging and Personality | |
| SECON | D YE | AR | |
| Fourth | Quar | ter | |
| GBUS | | Math Skills for Business ² OR Other Math | |
| HSGER HSGER | | Leisure, Learning and Living 5 Practicum I 5 Total 13-15 | 5 |
| | | | • |
| Fifth Qu HSGER | | | _ |
| HSGER | | Aging and Mental Health | 5 |
| Sixth Q | uarte | er | |
| HSGER | 283 | Practicum III | 5 |

Certificate

Students working toward a certificate of completion in gerontology must choose and complete a specified 30 credit sequence of courses and 10 credits of practicum in the gerontology program, consulting individually with a gerontology instructor before planning the total program.

| ENG | 101 | English Composition |
|--------------|-----|---|
| GBUS | 102 | Math Skills for Business |
| HS | 136 | Improving Interpersonal Communication5 |
| 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 |
| HSGER | 250 | Death, Loss and Grief 5 |
| HSGER | 281 | Practicum I |
| HSGER | 282 | Practicum II |
| | | Total48 |

91-93 credits are required for an A.A.S. degree and 48 credits are required for a certificate.

- ¹ Electives to be selected with the approval of a gerontology instructor.
- ² Concurrent with SPCH 121 Job Communication Skills from recommended electives

GRAPHIC DESIGN

A.A.S. Degree, Certificate: 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 which use computers to create design, advertising and promotional pieces. Standards match job requirements that range from technical production abilities to high-level creative conceptualizing. The program consists of a project-oriented curriculum that incorporates industry design problems and projects to demonstrate student learning. Courses in design process and design technology interact to deliver the skills necessary to successfully complete specific design projects. Students assemble project portfolios that are reviewed by the design faculty.

With strong guidance from 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 there is portfolio organization, internships, resume preparation and job-placement assistance. Although the graphic design program is oriented to the print medium, students are introduced to web design and multi-media design.

FIRST YEAR

| First Quarter | | | |
|--------------------|---------------------------------|--|--|
| GRDSN 101 | Design Process I | | |
| GRDSN 102 | Design Technology I | | |
| GRDSN 103 | Design Projects I | | |
| GRDSN 104 | Design Lab I | | |
| GRDSN 105 | Drawing for Graphic Designers 2 | | |
| GRDSN 109 | History of Design | | |
| GRDSN 156 | Illustrator I | | |
| GRDSN 163 | InDesign I | | |
| | Total 17 | | |
| Second Qua | rter | | |
| ART 105 | Color and Design5 | | |
| GRDSN 111 | Design Process II | | |
| GRDSN 112 | Design Technology II | | |
| GRDSN 113 | Design Projects II | | |
| GRDSN 114 | Design Lab II | | |
| GRDSN 115 | Drawing for Communication 2 | | |
| GRDSN 158 | PhotoShop I | | |
| GRDSN 172 | Dreamweaver | | |
| | Total | | |
| Third Quart | er | | |
| ENG 105 | Pro/Tech: Basic Writing | | |

| GBUS 102 GRDSN 121 GRDSN 122 GRDSN 123 GRDSN 124 GRDSN 125 | Math Skills for Business 3 Design Process III 2 Design Technology III 2 Design Projects III 1 Design Lab III. 2 Computer Drawing 2 Total 17 | | |
|---|---|--|--|
| SECOND YEA | | | |
| Fourth Quar | | | |
| GENST 109 | Applied Critical Thinking | | |
| GRDSN 126 | Web Production | | |
| GRDSN 142 | Print Production | | |
| GRDSN 201 GRDSN 202 | Design Process IV | | |
| GRDSN 202 GRDSN 203 | Design Technology IV | | |
| GRDSN 204 | Design Lab IV | | |
| GREET ZOT | Electives ¹ | | |
| | Total | | |
| Fifth Quarte | • | | |
| GRDSN 211 | Design Process V | | |
| GRDSN 212 | Design Technology V | | |
| GRDSN 213 | Design Projects V | | |
| GRDSN 214 | Design LabV 4 | | |
| GRDSN 235 | Multimedia Technology I | | |
| HS 136 | Improving Interpersonal Communication5 | | |
| | Total | | |
| Sixth Quarte | er | | |
| GRDSN 221 | Design Process VI | | |
| GRDSN 223 | Design Projects VI | | |
| GRDSN 224 | Design Lab VI4 | | |
| GRDSN 266 | Cooperative Education Seminar | | |
| GRDSN 267 | Cooperative Education Work Experience 3-5 | | |
| | Electives ¹ . 3-5 Total . 14-18 | | |
| 400 406 ** | | | |
| | ts are required for an A.A.S. degree. | | |
| See department | ¹ See department for listing of approved electives. | | |

3-D Animation Certificate

This certificate is designed as an introduction to 3-D animation technologies and projects. The courses provide students with fundamental skills as they relate to 3-D animation. Students are assigned industry related projects and exercises.

| | | Total |
|---------|----|--------------------------------|
| PHOTO 1 | 26 | Digital Photography I |
| | | 3-D Modeling and Animation III |
| GRDSN 2 | 39 | 3-D Modeling and Animation II |
| GRDSN 2 | 38 | 3-D Modeling and Animation I |
| ART 1 | 06 | 3-D Design |

Multimedia Certificate

This certificate is designed as an introduction to Multimedia technologies and projects. The courses provide students with fundamental skills as they relate to multimedia and animation. Students are assigned industry related projects and exercises. CRDSNI 160 D

| | Total |
|-----------|-------------------------------|
| GRDSN 239 | 3-D Modeling and Animation II |
| | 3-D Modeling and Animation I |
| GRDSN 236 | Multimedia Technology II |
| GRDSN 235 | Multimedia Technology I |
| GRDSN 171 | Flash |
| GRDSN 160 | Director |

Web Design Certificate

This certificate is designed as an introduction to Web Design technologies and projects. The courses provide students with fundamental skills as they relate to web design. Students are assigned industry related projects and exercises.

| 1) | | |
|-----------|----------------|---|
| GRDSN 126 | Web Production | 2 |
| GRDSN 158 | PhotoShop I | 2 |

See department for listing of approved electives.

| | | Total |
|-------|-----|--------------------------|
| IS | 126 | Internet Publishing |
| GRDSN | 236 | Multimedia Technology II |
| | | Multimedia Technology I |
| GRDSN | 172 | Dreamweaver |
| GRDSN | 167 | Fireworks |

Graphic Design Survey Certificate

This certificate is designed as an introduction to Graphic Design technologies and projects. The courses provide students with fundamental skills as they relate to graphic design and advertising. Students are assigned industry related projects and exercises.

| GRDSN 101 | Design Process I | 2 |
|-----------|-------------------------------|---|
| GRDSN 102 | Design Technology I | 2 |
| | Design Lab I | |
| GRDSN 105 | Drawing for Graphic Designers | 2 |
| | History of Design | |
| | Electives | |
| | Total 1/ | 1 |

HEALTH/FITNESS TECHNICIAN

A.A.S. Degree: SFCC

The health/fitness technician program is a two-year professional technical curriculum offered at Spokane Falls Community College. This program is designed for students who are looking toward a career in the health/fitness industry. Students who complete the two-year program and receive an associate in applied science degree (A.A.S.) can enter the job market immediately. Students interested in transferring to a four-year college 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 the National Strength and Conditioning Association's personal trainer exam. The NSCA-CPT exam is the only accredited personal trainer exam in the nation. Spokane Falls Community College is a host site for this national exam in June and December each year.

The HFT program provides instruction in professional areas such as exercise physiology, anatomical kinesiology, sports nutrition, care and prevention of injuries, functional training, personal training, health screening, and exercise prescription. Related courses include stress management, therapeutic massage, first aid/ CPR and exercise for older adults.

Students interested in athletic training can work with experienced college trainers. Students can gain valuable experience working with a wide variety of sports and athletes.

FIRST YEAR

| First Q | First Quarter | | | |
|-------------|---------------|--|--|--|
| FMT | 204 | Health Appraisal and Exercise Prescription 5 | | |
| FMT | 230 | Therapeutic Massage | | |
| GBUS | 102 | Math Skills for Business | | |
| HLTH | 174 | First Aid | | |
| | | Total | | |
| Second | d Qua | rter | | |
| BIOL | 101 | General Biology | | |
| ENG | 109 | Speech Composition AND | | |
| SPCH | 101 | Introduction to Speech Communication 5 | | |
| FMT | 106 | Anatomical and Physiological Kinesiology 5 | | |
| | | Total | | |
| Third (| Quart | er | | |
| A-P | 242 | Human Anatomy and Physiology 5 | | |
| FMT | 111 | Physiology of Exercise | | |
| FMT | 115 | Leadership Dynamics | | |
| | | Elective | | |
| | | Total | | |
| | | | | |

SECOND YEAR

| Fourth | Quai | rter | |
|---------|---------|--|----|
| A-P | 243 | Human Anatomy and Physiology | 5 |
| FMT | 119 | Principles of Strength Training | |
| FMT | 219 | Injury Prevention and Rehabilitation | |
| PE | 187 | Cross Training | 2 |
| | | Total | 15 |
| Fifth Q | uarte | er | |
| ENG | 101 | English Composition | 5 |
| FMT | 209 | Exercise and the Cardiovascular System | |
| HLTH | 104 | Stress Management | |
| PE | 270 | Nutrition for Fitness | |
| | | Total | 16 |
| Sixth (| Quart | er | |
| FMT | 112 | Exercise and Aging | 3 |
| FMT | 225 | Personal Training | |
| PE | 266 | Cooperative Education Seminar | |
| PE | 267 | Cooperative Education Work Experience | 2 |
| | | Elective | 5 |
| | | Total | 14 |
| 00 and | :10 000 | required for an A A C decree | |

90 credits are required for an A.A.S. degree.

HEALTH INFORMATION TECHNOLOGY

A.A.S. Degree: SCC

This A.A.S. degree program is accredited by the American Health Information Management Association (AHIMA) and the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM) 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) regulations. Upon completion of the program, students are eligible to take the Registered Health Information Technician (RHIT) certification exam offered by (AHIMA).

Prerequisite/Admission Requirements:

- High school diploma or GED certificate
- Physical examination
- Keyboarding skills (Microsoft or basic computing)
- Appropriate scores in one of the following: ASSET or Compass

| FIRST | <u>YEAR</u> | |
|--------------|-------------|--|
| First Q | uarte | r |
| HED | 108 | Human Anatomy |
| HIT | 104 | Introduction to Health Information |
| HIT | 125 | Medical Terminology |
| HIT | 160 | Computer Theory in Health Information |
| | | Total |
| Secon | d Qua | rter |
| GBUS | 103 | Basic Business Math and Electronic Calculators 5 |
| HED | 109 | Human Physiology and Disease |
| HIT | 101 | Health Record Systems |
| HIT | 161 | Health Management Information Systems |
| | | Total |
| Third (| Quart | er |
| ENG | 120 | Applied Technical Writing for Vocations OR |
| ENG | 205 | Technical Writing |
| HIT | 129 | Pathophysiology5 |
| HIT | 135 | Comparative Record Systems 4 |
| HIT | 162 | Electronic Health Record Systems |
| | | Total 17 |
| SECON | ID YE | AR |
| Fourth | Quai | rter |
| HIT | 105 | Legal Concepts in Health |

| 1111 | 140 | Thaimacology |
|---------|---------|--|
| HIT | 203 | Clinical Practice |
| HIT | 209 | Health Data Analysis and Display |
| HIT | | Acute Care Coding |
| | | Total |
| Fifth C | Quarte | r |
| HIT | 208 | Health Information Management |
| HIT | 211 | Quality Improvement |
| HIT | 214 | Ambulatory Care Coding |
| HIT | 250 | Management and Supervision in Health Organizations . 3 |
| | | Total |
| Sixth (| Quart | er |
| HIT | 213 | Clinical Practice |
| HIT | 216 | Reimbursement Strategies for HIM Professionals 5 |
| HIT | 218 | Advanced Medical Coding 5 |
| HIT | 240 | HIT Clinical Seminar |
| | | Total |
| 105 cre | dits ar | e required for an A.A.S. degree. |

1.4E Dla amas a a a l a a

- Each required course for graduation in the first year of the curriculum must be completed with a 2.0 grade or better before proceeding to the second year of the curriculum.
- Students desiring a course of study leading to an associate of arts degree should consult the college catalog for the specific degree requirements. The A.A. degree is recommended for students who may consider continuing their education in health information management or administration.
- 2.0 grade or better must be maintained in all courses required for a degree.
- All HIT courses must be completed within five years.

HEALTH RECORD CLERK

A.A.S. Degree, Certificate: SCC

The health record clerk program offers versatility in skills development and career mobility for the student. Health record clerks provide services in hospitals, long-term care, ambulatory care, clinics and other health-related areas. Students have clinical practice experience in an Admissions/Registration Department, Health Information Management Department or alternative sites to practice and integrate their learned skills.

Prerequisite/Admission Requirements:

- High school diploma or GED certificate
- Physical exam
- Keyboarding skills
- Appropriate scores in one of the following: ASSET or Compass

160 Computer Theory in Health Information.................... 3

First Quarter

| HRC | 104 | Introduction to Health Information |
|-------------|-------|--|
| HRC | 108 | Human Anatomy |
| SPCH | 102 | Interpersonal Communication 5 |
| | | Total16 |
| Second | d Qua | rter |
| GBUS | 103 | Basic Business Math and Electronic Calculators 5 |
| HIT | 161 | Health Management Information Systems |
| HRC | 101 | Health Record Systems |
| HRC | 125 | Medical Terminology |
| | | Total |
| Third (| Quart | er |
| HIT | 162 | Electronic Health Record Systems |
| HRC | 105 | Legal Concepts in Health |
| HRC | 126 | Introduction to Study of Disease |
| HRC | 135 | Comparative Record Systems OR |
| HRC | 145 | Pharmacology |
| HRC | 150 | Health Record Clerk Directed Practice |
| | | Total 15-16 |
| | | |

| Libera | al Ar | rts | Cu | rriculum | (OPTIONAL | A.A.S. | DEGREE) |
|--------|-------|-----|-------|-------------|-----------|--------|-----------------|
| ENIC | 101 | E | 1:.1. | Commonition | | | |

| ENG | 101 | English Composition |) |
|--------|-------|----------------------------------|---|
| MATH | 100 | Vocational Technical Mathematics | 5 |
| PSYCH | 101 | Introduction to Psychology | 5 |
| | | Electives | 7 |
| | | Total | 2 |
| OPTION | JAI E | LECTIVES TO CONSIDER: | |
| OF HOI | MAL L | LECTIVES TO CONSIDER. | |
| ENG | 201 | Advanced English Composition | 5 |
| ODITO | | | _ |

| LIVO | 201 | Travaricea English Composition |
|-------------|-----|--------------------------------|
| GBUS | 101 | Introduction to Business |
| MMGT | 101 | Principles of Management |
| SOC | 211 | Marriage and the Family 5 |
| ISFTY | 111 | Industrial First Aid |
| | | Computer Classes |

91 credits are required for an AAS degree.

- Each required course in the first and second quarter must be completed with a 2.0 grade or better before proceeding to the third quarter. A 2.0 GPA or better is needed in all required courses before a certificate is awarded.
- All courses must be completed within a five-year period.
- Any exceptions to the admission requirements must be approved by the program director and the dean of instruction for Health and Environmental Sciences.
- The student may complete requirements in health record clerk 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. Students enrolling in liberal arts the first year must make formal application to the health record clerk program during the first year.
- For an associate in applied science degree, the student must complete 15 credit hours of required courses and 27 hours of department approved electives numbered 100 or above in addition to the one-year professional curriculum, and a 2.0 GPA must be maintained in all classes.

HEALTH UNIT COORDINATOR

A.A.S. Degree, Certificate: SCC

This program offers a one-year certificate with an optional A.A.S. degree and prepares students for a profession working a hospital or long-term care facility. Students learn to coordinate between physicians, patients and hospital staff, utilize and maintain computer record systems, and manage communications within a healthcare unit. Upon completion of the program, students are eligible to take the national Certified Health Unit Coordinator (CHUC) certification exam offered by the National Association of Health Unit Coordinators (NAHUC).

Prerequisite/Admission Requirements:

- High school diploma or GED certificate
- Physical exam
- Ability to perform under stress
- Keyboarding skills (Microsoft or basic computing)
- Appropriate scores in one of the following: ASSET or Compass

Any exceptions to the admission requirements must be approved by the program director and the dean of instruction for Health and Environmental Sciences.

Certificate (PROFESSIONAL REQUIREMENTS) First Quarter

| | | Total |
|-------|-----|--|
| HUC | 108 | Human Anatomy |
| HUC | 104 | Introduction to Health Information |
| HIT | 160 | Computer Theory in Health Information |
| GBUS | 103 | Basic Business Math and Electronic Calculators 5 |
| APLED | 123 | Leadership Skills for Business and Industry |

Second Quarter HED HIT Health Management Information Systems 3 HUC HUC Introduction to Health Unit Coordinator Procedures. . 2 HUC

Third Quarter

ENG

| HIT | 162 | Electronic Health Record Systems |
|-----|-----|--------------------------------------|
| HUC | | Legal Concepts in Health |
| HUC | 126 | Introduction to Study of Disease |
| HUC | 127 | Health Unit Coordinator Procedures 5 |
| HUC | 145 | Pharmacology3 |
| HUC | 152 | Unit Coordinator Practicum |
| | | Total20 |

56 credits are required for a certificate.

Liberal Arts Curriculum (OPTIONAL A.A.S. DEGREE) **REQUIRED COURSES:**

PSYCH 101 Introduction to Psychology...... 5

| IUICII | 101 | introduction to 1 by chorogy |
|--------|-------|--|
| SOC | 101 | Introduction to Sociology OR |
| SOC | 211 | Marriage and the Family |
| OPTION | IAL E | LECTIVES TO CONSIDER1: |
| ENG | 109 | Speech Composition AND |
| SPCH | 101 | Introduction to Speech Communication 5 |
| GBUS | 280 | Human Relations in Business5 |
| HUC | 266 | Cooperative Education Seminar |
| HUC | 267 | Cooperative Education Work Experience 1-18 |
| MMGT | 101 | Principles of Management 5 |
| | | |

101 credits are required for an A.A.S. degree.

■ Each required course in the first and second quarter must be completed with a 2.0 grade or better before proceeding to the third quarter. A 2.0 grade or better is needed in all required courses before a certificate is awarded.

- The student may complete requirements in health unit coordinator 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. Students enrolling in liberal arts the first year must make formal application to the health unit coordinator program during the first year.
- All professional coursework must be completed within a five-year period. Students must maintain a 2.0 grade or better in each of the courses.
- For an associate in applied science degree, the student must complete 20 credit hours of required courses and 25 credit hours of department approved electives numbered 100 or above in addition to the oneyear professional curriculum, and a 2.0 GPA must be maintained in all classes.
- ¹ Or any departmentally approved elective numbered 100 or above.

HEARING INSTRUMENT SPECIALIST

A.A.S. Degree, Certificate: 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. 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.

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."

FIRST YEAR

| FIFST Q | uarte | r |
|--|--|---|
| ENG | 101 | English Composition |
| HIS | 101 | Basic Hearing Instrument Sciences |
| HIS HIS | 104 | Hearing Physiology and Anatomy |
| шз | 106 | Healthcare and Business Ethics 4 Total |
| Second | Ous | |
| GBUS | 103 | Basic Business Math and Electronic Calculators OR |
| MATH | 100 | Vocational Technical Mathematics OR |
| MATH | 115 | Math for the Liberal Arts |
| HIS | 123 | Basic Audiometrics |
| HIS | 125 | Auditory Disorders |
| HIS | 127 | Hearing Healthcare Management I 4 |
| | | Total 17 |
| Third Q | | |
| HIS | 134 | Advanced Audiometrics |
| HIS | 136 | Hearing Instrument Technologies |
| HIS HS | 138 136 | Earmolds and ALDS 4 Improving Interpersonal Communication OR |
| GBUS | 280 | Human Relations in Business |
| GDCD | 200 | Total |
| SECON | D YF | ΔR |
| Fourth | | |
| GENST | 109 | Applied Critical Thinking |
| HIS | 201 | Hearing Healthcare Management II 4 |
| | | Tiedinig Tiedinicale Management II |
| HIS | 206 | Hearing Instrument Specialist Laboratory I |
| HIS HIS | | |
| | 206 | Hearing Instrument Specialist Laboratory I 3 |
| | 206 250 | Hearing Instrument Specialist Laboratory I |
| HIS Fifth Qu | 206 250 uarte 210 | Hearing Instrument Specialist Laboratory I 3 Perspectives on Disabilities 4 Total 14 r Clinical Methods I 5 |
| HIS Fifth Qu HIS HIS | 206 250 uarte 210 213 | Hearing Instrument Specialist Laboratory I 3 Perspectives on Disabilities 4 Total 14 ** Clinical Methods I 5 Marketing/Sales 4 |
| HIS Fifth Qu | 206 250 uarte 210 | Hearing Instrument Specialist Laboratory I 3 Perspectives on Disabilities 4 Total 14 ** Clinical Methods I 5 Marketing/Sales 4 Hearing Instrument Specialist Laboratory II 5 |
| HIS Fifth QI HIS HIS HIS | 206 250 uarte 210 213 215 | Hearing Instrument Specialist Laboratory I 3 Perspectives on Disabilities 4 Total 14 I* 5 Marketing/Sales 4 Hearing Instrument Specialist Laboratory II 5 Total 14 |
| Fifth Quality HIS HIS HIS Sixth Q | 206 250 uarte 210 213 215 | Hearing Instrument Specialist Laboratory I 3 Perspectives on Disabilities 4 Total 14 I* 5 Clinical Methods I 5 Marketing/Sales 4 Hearing Instrument Specialist Laboratory II 5 Total 14 |
| HIS Fifth QI HIS HIS HIS | 206 250 uarte 210 213 215 | Hearing Instrument Specialist Laboratory I |
| HIS Fifth QI HIS HIS HIS HIS HIS | 206 250 uarte 210 213 215 uarte 205 | Hearing Instrument Specialist Laboratory I |
| Fifth Quality HIS HIS HIS Sixth Q | 206 250 uarte 210 213 215 | Hearing Instrument Specialist Laboratory I |
| HIS Fifth QI HIS HIS HIS HIS HIS HIS | 206 250 uarte 210 213 215 uarte 205 | Hearing Instrument Specialist Laboratory I |
| HIS Fifth Q HIS HIS HIS HIS HIS HIS HIS | 206 250 uarte 210 213 215 uarte 205 222 266 | Hearing Instrument Specialist Laboratory I |

95 credits are required for an A.A.S. degree.

Certificate

To provide the basic education necessary to provide professional assistance to hearing instrument dispensing offices.

101 Pagia I I agrin a Instrument Caion ago

First Quarter

| HIS | 101 | Basic Hearing Instrument Sciences 4 |
|--------|-------|-------------------------------------|
| HIS | 104 | Hearing Physiology and Anatomy 4 |
| HIS | 106 | Healthcare and Business Ethics 4 |
| | | Total |
| Second | d Qua | rter |
| HIS | 123 | Basic Audiometrics4 |
| HIS | 125 | Auditory Disorders4 |
| HIS | 127 | Hearing Healthcare Management I 4 |
| HIS | 213 | Marketing/Sales |

Third Quarter

| | | Total | 4 |
|-----|-----|---------------------------------------|---|
| HIS | 267 | Cooperative Education Work Experience | 5 |
| HIS | 266 | Cooperative Education Seminar | 1 |
| HIS | 138 | Earmolds and ALDS | 4 |
| ш5 | 134 | Advanced Audiometrics | 4 |

42 credits are required for a certificate.

HEATING, VENTILATION, AIR CONDITIONING AND REFRIGERATION

A.A.S. Degree: SCC

Completion of the two-year heating, ventilation, air conditioning and refrigeration (HVAC) program at Spokane Community College prepares the student for an entry-level position in one of the most challenging occupations available.

Entry-level HVAC 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 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.

FIRST YEAR

| First Q | uarte | r | |
|--------------|---------|--|-----|
| AIRC | 113 | Math for HVAC Technicians | |
| AIRC | 114 | Principles of Electricity | . 8 |
| AIRC | 117 | Theory of Heat Transfer | |
| | | Total | 17 |
| Second | Qua | | |
| AIRC | 115 | HVAC Electrical Applications | . 7 |
| AIRC | 128 | Fundamentals of Heating and Mechanical Systems | |
| APLED | 121 | Applied Written Communication | |
| APLED | 125 | Employment Preparation | |
| | | Total | 22 |
| Third Q | | | |
| AIRC | 137 | Heating Systems Servicing and Troubleshooting | |
| AIRC | 201 | Refrigeration Fundamentals | |
| ISFTY | 111 | Industrial First Aid | |
| | | Total | 1/ |
| Fourth | Quar | | |
| AIRC | 202 | Thermodynamics of Refrigeration | . 8 |
| AIRC | 263 | System Servicing and Troubleshooting of Air | _ |
| | | Conditioners | |
| | | Iotal | 13 |
| SECON | D YE | AR | |
| Fifth Q | uarte | | |
| AIRC | 125 | Sheet Metal Layout and Fabrication | . 5 |
| AIRC | 246 | HVAC Load Calculations | |
| AIRC | 247 | Oil Heating Systems | |
| AIRC | 249 | Hydronic Heating Systems | |
| | | Total | ZU |
| Sixth Q | , | | |
| AIRC | 255 | Installation Practices | |
| AIRC | 264 | System Servicing and Troubleshooting of Heat Pumps | |
| | | Total | 14 |
| Sevent | h Qua | | |
| AIRC | 262 | Control Theory and Automation | |
| AIRC | 265 | Direct Digital Control Systems | |
| | | Total | 15 |
| 120 cred | lits ar | e required for an A.A.S. degree. | |
| 1 The for | urth a | warter is held in the summer | |

HORTICULTURE

A.A.S. Degree, Certificate: SCC

FLORIST

The field of environmental horticulture pertains to floriculture, landscape design and maintenance, and greenhouse and nursery management. This program provides a study of ornamental plant materials, plant propagation 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 floral certificate provides a study of floral arrangement techniques and retail sales methods of cut flowers and potted plants. Students must enter in the fall quarter in order to finish the 3-quarter sequence of floral design classes. Employment potential includes floral designer, greenhouse manager, retail sales manager, etc.

FIRST YEAR

| FIRST YEAR | |
|--------------------|--|
| First Quarte | r¹ |
| AGHRT 103 | Introduction to Greenhouse and Nursery Management. 3 |
| AGHRT 126 | Computer Essentials in Environmental Sciences 2 |
| AGHRT 171 | Agricultural Leadership Training |
| AGHRT 211 | Floral Design Techniques |
| APLED 112 | Applied Mathematics ² |
| | Total |
| Second Qua | |
| AGHRT 105 | Horticultural Retail Sales |
| AGHRT 111 | House Plants |
| AGHRT 116 | Green Industry Management 5 |
| AGHRT 212 | Floral Design Applications 5 |
| | Total 18 |
| Third Quart | er ⁴ |
| AGGEN 151 | Agriculture Shop Skills 4 |
| AGHRT 173 | Agricultural Leadership Training |
| AGHRT 213 | Retail Floristry |
| APLED 121 | Applied Written Communication ² 4 |
| | Total |
| SECOND YE | AR |
| Fourth Quar | rter¹ |
| AGHRT 104 | Principles of Pest Management 5 |
| AGHRT 106 | Greenhouse and Nursery Management I 5 |
| ENVSC 110 | Plant Biology 5 |
| | Total15 |
| Fifth Quarte | rl ³ |
| AGHRT 107 | Greenhouse and Nursery Management II4 |
| AGHRT 240 | Practicum — Floral Design Projects 1 |
| GBUS 280 | Human Relations in Business 5 |
| MMGT 205 | Small Business Planning |
| | Total 17 |
| Sixth Quarte | er ⁴ |
| AGHRT 108 | Greenhouse and Nursery Management III 4 |
| AGHRT 230 | Plant Problem Diagnosis |
| AGHRT 232 | Pest Management Project |
| AGHRT 241 | Practicum — Floral Design Projects 2 |
| ENVSC 210 | Environmental Soil Science |
| | Total |
| AGHRT 195 | Practicum ⁵ 3 |
| | Total |
| | |

Certificate

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

First Quarter¹

| AFLED 112 | Applied Mathematics ² |
|-----------|--|
| | |
| | Floral Design Techniques5 |
| AGHRT 171 | Agricultural Leadership Training |
| AGHRT 126 | Computer Essentials for Environmental Sciences 2 |
| AGHRT 103 | Introduction to Greenhouse and Nursery Management. 3 |
| | |

The fourth quarter is held in the summer

AGHRT 112

AGHRT 173

ENVSC 210

SECOND YEAR

Fourth Quarter¹

AGHRT 106

Spring Landscape Plant Materials 5

Greenhouse and Nursery Management I 5

AGGEN 151 Agriculture Shop Skills 4

Second Quarter³ Fifth Quarter³ AGHRT 102 Pesticides and Application Equipment......5 AGHRT 111 House Plants 5 AGHRT 107 Greenhouse and Nursery Management II...... 4 Green Industry Management 5 AGHRT 205 Landscape Design 4 AGHRT 212 Floral Design Applications 5 AGHRT 219 Soil Management and Fertility 5 Third Quarter⁴ Sixth Quarter⁴ AGGEN 151 Agriculture Shop Skills 4 AGHRT 108 Greenhouse and Nursery Management III 4 GBUS 280 Human Relations in Business...... 5 AGHRT 213 Retail Floristry 5 MMGT 205 APLED 121 Applied Written Communication¹......4 AGHRT 195 100 credits are required for an A.A.S. degree and 46 credits are required for a certificate. **Certificate** ¹ These courses may be offered fall quarter only. First Quarter¹ ² This related education requirement may be met by any course or combination of courses approved by the instructional dean. AGHRT 103 Introduction to Greenhouse and Nursery Management. 3 These courses may be offered winter quarter only. AGHRT 110 Fall Landscape Plant Materials...... 5 ⁴ These courses may be offered spring quarter only. Computer Essentials for Environmental Sciences. 2 AGHRT 126 ⁵ Practicum may be taken at any time during the second year. AGHRT 171 AGHRT 211 APLED 112 **HORTICULTURE** A.A.S. Degree, Certificate: SCC Second Quarter³ AGHRT 111 House Plants 5 **GREENHOUSE NURSERY** Green Industry Management 5 AGHRT 116 The field of environmental horticulture pertains to floriculture, landscape APLED 121 Applied Written Communication²......4 design and maintenance, and greenhouse and nursery management. ENVSC 110 This program provides a study of ornamental plant materials, plant propagation, and nursery and greenhouse management methods. Third Quarter⁴ Employment potential includes greenhouse manager, nursery manager, retail sales manager and plant propagator. AGHRT 104 Principles of Pest Management 5 AGHRT 105 At the completion of the second year, the student may receive the as-Spring Landscape Plant Materials 5 AGHRT 112 sociate in applied science degree. AGHRT 173 **FIRST YEAR** ENVSC 210 Environmental Soil Science. 5 First Quarter¹ AGHRT 103 Introduction to Greenhouse and Nursery Management. 3 113 credits are required for an A.A.S. degree and 57 credits are required AGHRT 110 Fall Landscape Plant Materials...... 5 for the certificate. AGHRT 126 Computer Essentials for Environmental Sciences. 2 ¹ These courses may be taken in fall quarter only. AGHRT 171 ² This related education requirement may be met by any course or combination Floral Design Techniques......5 AGHRT 211 of courses approved by the instructional dean. APLED 112 These courses may be taken in winter quarter only. ⁴ These courses may be taken in spring quarter only. Second Quarter³ ⁵ Practicum may be taken at any time during the second year. AGHRT 111 House Plants 5 **HORTICULTURE** AGHRT 116 Green Industry Management 5 Applied Written Communication²......4 APLED 121 Plant Biology 5 A.A.S. Degree, Certificate: SCC ENVSC 110 **LANDSCAPE-TURF** Third Quarter⁴ AGHRT 104 Principles of Pest Management 5 AGHRT 105

The field of environmental horticulture pertains to floriculture, landscape design and maintenance, and greenhouse and nursery management. This program provides a study of ornamental plant materials and propagation and how they relate to landscape design construction, installation, maintenance, and turfgrass management. At the completion of the second year, the student may receive the associate in applied science degree. Employment potential includes golf course maintenance, landscape designer, retail sales manager, landscape contractor, landscape park maintenance supervisor and irrigation specialist.

FIDST VEAD

| 111131 12/111 | | | | |
|----------------------------|--------------------------------------|----|--|--|
| First Quarter ¹ | | | | |
| AGGEN 156 | Equipment Operation and Maintenance | 5 | | |
| AGHRT 102 | Pesticides and Application Equipment | 5 | | |
| AGHRT 110 | Fall Landscape Plant Materials | 5 | | |
| AGHRT 171 | Agricultural Leadership Training | 1 | | |
| APLED 112 | Applied Mathematics ² | 3 | | |
| | Total | 19 | | |

| Second Qua | |
|------------------------|--|
| AGGEN 151 | Agriculture Shop Skills 4 |
| AGHRT 104 | Principles of Pest Management 5 |
| AGHRT 126 | Computer Essentials for Environmental Sciences 2 |
| AGHRT 172 | Agricultural Leadership Training |
| AGHRT 204 APLED 121 | Landscape Graphics |
| APLED 121 | Applied Written Communication ² 4 Total 20 |
| Third Occurs | |
| Third Quarte | |
| AGHRT 112 AGHRT 206 | Spring Landscape Plant Materials 5 Landscape Construction 5 |
| AGHRT 226 | Turfgrass Management |
| ENVSC 110 | Plant Biology |
| | Total |
| SECOND VE | A D |
| SECOND YE | |
| - | rter (Summer) ⁵ |
| AGHRT 266 AGHRT 267 | Cooperative Education Seminar |
| AGHKI 207 | Total 4 |
| rifel. Ot. | |
| Fifth Quarte | |
| AGHRT 115 AGHRT 116 | Pruning |
| AGHRT 202 | Principles of Irrigation |
| ENVSC 210 | Environmental Soil Science |
| 211100 210 | Total |
| Sixth Quarte | a#3 |
| AGHRT 205 | Landscape Design |
| AGHRT 228 | Arboriculture |
| GBUS 280 | Human Relations in Business 5 |
| MMGT 205 | Small Business Planning5 |
| | Total |
| Seventh Qua | arter ⁴ |
| AGHRT 114 | Landscape Maintenance |
| AGHRT 201 | Landscape Installation |
| AGHRT 225 | Weed Biology and Control |
| AGHRT 230 | Plant Problem Diagnosis |
| AGHRT 232 | Pest Management Project 2 Total 20 |
| | Iotal |
| Certificat | e |
| | e turf certificate provides a study of landscape design and |
| | agement. Students must enter in the fall quarter in order |
| to finish three | e quarters. |
| First Quarte | r ₁ |
| AGGEN 156 | Equipment Operation and Maintenance5 |
| AGHRT 102 | Pesticides and Application Equipment 5 |
| AGHRT 110 | Fall Landscape Plant Materials |
| AGHRT 171 | Agricultural Leadership Training |
| APLED 112 | Total |
| | |
| Second Qua | |
| AGGEN 151 AGHRT 104 | Agriculture Shop Skills |
| AGHRT 126 | Computer Essentials for Environmental Sciences 2 |
| AGHRT 172 | Agricultural Leadership Training |
| AGHRT 204 | Landscape Graphics 4 |
| APLED 121 | Applied Written Communication ² 4 |
| | Total20 |
| Third Quart | er ⁴ |
| AGHRT 112 | Spring Landscape Plant Materials 5 |
| AGHRT 206 | Landscape Construction |
| AGHRT 226 | Turfgrass Management |
| ENVSC 110 | Plant Biology |
| 400 11 | Total20 |
| | e required for an A.A.S. degree and 59 credits are required |
| for a certificat | P |

- ³ These courses may be offered in winter quarter only.
- ⁴ These courses may be offered in spring quarter only.
- ⁵ These courses may be offered in summer quarter only.

HOTEL AND RESTAURANT MANAGEMENT

A.A.S. Degree: 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 grade of 2.0 or better must be maintained in all hotel and restaurant management courses required for a degree.

FIRST YEAR First Quarter

| First Qi | uarte | |
|---|---|--|
| APLED | 121 | Applied Written Communication ¹ 4 |
| CIS | 110 | Introduction to Computer Applications |
| HM | 110 | Introduction to Hospitality 5 |
| HM | 115 | Food Sanitation ² |
| | | Total 17 |
| Second | Qua | rter-Hotel Option |
| HM | 112 | Hospitality Mathematics |
| HM | 126 | Food Science |
| HM | 141 | Maintenance and Engineering 5 |
| HM | 160 | Supervisory Housekeeping |
| MMGT | 223 | Customer Service |
| | | Total |
| Second | Qua | rter-Restaurant Option |
| HM | 112 | Hospitality Mathematics |
| HM | 126 | Food Science |
| HM | 141 | Maintenance and Engineering 5 |
| MMGT | 223 | Customer Service |
| | | Total |
| | | |
| Third Q | uart | er |
| Third Q APLED | uart 125 | |
| | • | Employment Preparation ¹ |
| APLED | 125 | Employment Preparation ¹ |
| APLED HM | 125 130 | Employment Preparation ¹ |
| APLED HM HM | 125 130 266 | Employment Preparation13Human Relations5 |
| APLED HM HM HM | 125 130 266 267 | Employment Preparation ¹ |
| APLED HM HM HM HM | 125 130 266 267 288 | Employment Preparation ¹ |
| APLED HM HM HM HM ISFTY | 125 130 266 267 288 111 | Employment Preparation ¹ |
| APLED HM HM HM HM ISFTY | 125 130 266 267 288 111 | Employment Preparation ¹ |
| APLED HM HM HM HM ISFTY | 125 130 266 267 288 111 | Employment Preparation ¹ |
| APLED HM HM HM HM ISFTY Fourth HM | 125 130 266 267 288 111 Quan | Employment Preparation¹ |
| APLED HM HM HM HM ISFTY Fourth HM HM | 125 130 266 267 288 111 Quai 111 202 | Employment Preparation¹ |
| APLED HM HM HM HM ISFTY Fourth HM HM HM | 125 130 266 267 288 111 Quai 111 202 220 | Employment Preparation¹ |
| APLED HM HM HM ISFTY Fourth HM HM HM HM HM HM HM | 125 130 266 267 288 111 Quai 111 202 220 265 | Employment Preparation¹ |
| APLED HM HM HM ISFTY Fourth HM HM HM HM HM HM HM | 125 130 266 267 288 111 Quai 111 202 220 265 | Employment Preparation¹ |
| APLED HM HM HM HM ISFTY Fourth HM | 125 130 266 267 288 111 Quai 111 202 220 265 | Employment Preparation¹ |
| APLED HM HM HM HM ISFTY Fourth HM HM HM HM HM HM HM | 125 130 266 267 288 111 Quai 111 202 220 265 Quai 111 | Employment Preparation¹ |

Total ..

² This related education requirement may be met by any course or combination of courses approved by the instructional dean.

¹ These courses may be offered in fall quarter only.

First Quarter

| SECON | D YE | AR | FLPT | 112 | Hydraulic Basics and Theory |
|--|--|--|---|--|---|
| Fifth Q | uarte | r-Hotel Option | FLPT | 113 | Blueprint Reading |
| HM | | Hotel/Restaurant Management Principles 5 | FLPT | 114 | Basic Hydraulics Lab |
| MMGT | | Human Resource Management 5 | | | Total20 |
| SPCH | 220 | Intercultural Communication 5 | Second | l Qua | rter |
| | | Total | BT | 100 | Keyboarding for Computers |
| Fifth Q | uarte | r-Restaurant Option | CIS | 105 | Computer Fundamentals for Vocations I |
| HM | 232 | Hotel/Restaurant Management Principles 5 | FLPT | 121 | Preumatic Theory |
| HM | 255 | Menu Planning | FLPT FLPT | 122 | Drawing Fundamentals |
| MMGT | | Human Resource Management 5 | I'LI I | 123 | Total |
| SPCH | 220 | Intercultural Communication | Thind C | | |
| | | Total | Third C | | |
| Sixth Q | Quarte | | FLPT | 131 | Applied Written Communication ¹ |
| ACCT | 151 | College Accounting I | FLPT | 132 | Fluid Line Fabrication |
| GBUS | 140 | International Marketing | FLPT | | Fluid Line Connectors5 |
| HM HM | 205 208 | Hotel/Restaurant Law5Hotel Sales and Marketing5 | FLPT | 134 | Shop Drawing |
| 1 1111 | 200 | Total | FLPT | 135 | Fluid Line Sizing Calculations |
| Covert | h 0 | | | | Total |
| Sevent CUL | 123 | | SECON | D YE | AR |
| CUL | 123 | Espresso | Fourth | Oua | rter |
| CUL | 131 | A la Carte Service 9 | APLED | • | |
| HM | 266 | Cooperative Education Seminar AND ³ | FLPT | 241 | Fluid Power Shop Theory |
| HM | 267 | Cooperative Education Work Experience OR ³ | FLPT | 242 | Machine Tool Operation |
| HM | 288 | Cooperative Education Work Experience (No Seminar) ³ .5 | FLPT | 243 | Advanced Machine Controls |
| | | Total 18 | FLPT | 244 | Machine Feed and Speed Calculations |
| 117-119 | credi | ts are required for an A.A.S. degree. | | | Total19 |
| ¹ This c | ourse i | may be substituted with any course or combination of courses | Fifth Q | uarte | er e |
| , , | - | the instructional dean. | APLED | | Employment Preparation ¹ |
| | | s required for certification by the Educational Foundation of the | FLPT | 251 | Hydraulic Circuits |
| | | staurant Association. Education course credits are variable and can be added to | FLPT FLPT | 252 253 | Hydraulic Component Repair |
| | | | | | |
| | | | | | Fluid Line Layout and Assembly |
| | uarter | or taken during summer quarter. 10 credits are required for | FLPT | 254 | Advanced Hydraulics Lab |
| any q | uarter | | | | Advanced Hydraulics Lab |
| any q | uarter ation. | | FLPT FLPT | 254 279 | Advanced Hydraulics Lab 3 Proportional Valves 4 Total 22 |
| any q | uarter ation. HY | or taken during summer quarter. 10 credits are required for Toraulic and Pneumatic | FLPT FLPT | 254 279 Quart | Advanced Hydraulics Lab |
| any q | uarter ation. HY | or taken during summer quarter. 10 credits are required for | FLPT FLPT Sixth Q | 254 279 Quarto A ² | Advanced Hydraulics Lab |
| any q | uarter ation. HY | TORAULIC AND PNEUMATIC UTOMATION TECHNOLOGY | FLPT FLPT Sixth Q | 254 279 Quarto A ² | Advanced Hydraulics Lab 3 Proportional Valves 4 Total 22 er (Student will choose one option.) Advanced Maintenance Welding 1 |
| any q gradu | narter ation. HY Al | ORAULIC AND PNEUMATIC UTOMATION TECHNOLOGY A.A.S. Degree, Certificate: SCC | FLPT FLPT Sixth Q Option AGGEN | 254 279 Quart A² J 161 261 | Advanced Hydraulics Lab |
| any q gradu | HY Al | TORAULIC AND PNEUMATIC UTOMATION TECHNOLOGY A.A.S. Degree, Certificate: SCC om the hydraulic and pneumatic automation technology | FLPT FLPT Sixth Q Option AGGEN FLPT FLPT FLPT | 254 279 Quart A² J 161 261 | Advanced Hydraulics Lab 3 Proportional Valves 4 Total 22 er (Student will choose one option.) Advanced Maintenance Welding 1 Hydraulic Component Testing 6 Machining Hydraulic Manifolds 5 Power Unit Fabrication 3 |
| any q gradu | HY Al tes from have | ORAULIC AND PNEUMATIC UTOMATION TECHNOLOGY A.A.S. Degree, Certificate: SCC | FLPT FLPT Sixth Q Option AGGEN FLPT FLPT | 254 279 Quart A ² V 161 261 262 | Advanced Hydraulics Lab |
| Gradua progran and pno | HY Al tes from have | TORAULIC AND PNEUMATIC UTOMATION TECHNOLOGY A.A.S. Degree, Certificate: SCC om the hydraulic and pneumatic automation technology e developed skills to qualify for employment in hydraulic | FLPT FLPT Sixth Q Option AGGEN FLPT FLPT FLPT | 254 279 Quart A ² J 161 261 262 263 | Advanced Hydraulics Lab 3 Proportional Valves 4 Total 22 er (Student will choose one option.) Advanced Maintenance Welding 1 Hydraulic Component Testing 6 Machining Hydraulic Manifolds 5 Power Unit Fabrication 3 |
| Gradua progran and prochinery | HY Al tes from have eumate maint | TORAULIC AND PNEUMATIC UTOMATION TECHNOLOGY A.A.S. Degree, Certificate: SCC om the hydraulic and pneumatic automation technology e developed skills to qualify for employment in hydraulic ic sales, automated equipment fabrication or plant ma- | FLPT FLPT Sixth Q Option AGGEN FLPT FLPT FLPT | 254 279 Quart A ² J 161 261 262 263 111 | Advanced Hydraulics Lab |
| Gradua progran and prochinery Activitie purchas | HY Al tes from have eumate maintees in sising, o | TDRAULIC AND PNEUMATIC UTOMATION TECHNOLOGY A.A.S. Degree, Certificate: SCC on the hydraulic and pneumatic automation technology e developed skills to qualify for employment in hydraulic ic sales, automated equipment fabrication or plant materiance work. ales and distribution vary from warehousing, inside sales, utside sales, power unit fabrication to field service work. | FLPT FLPT Sixth Q Option AGGEN FLPT FLPT ISFTY Option FLPT | 254 279 Quart A ² J 161 261 262 263 111 | Advanced Hydraulics Lab |
| Gradua program and prochinery Activitie purchase Each ar | tes from have eumate maintees in sising, offer o | TORAULIC AND PNEUMATIC UTOMATION TECHNOLOGY A.A.S. Degree, Certificate: SCC om the hydraulic and pneumatic automation technology e developed skills to qualify for employment in hydraulic ic sales, automated equipment fabrication or plant materiance work. ales and distribution vary from warehousing, inside sales, utside sales, power unit fabrication to field service work. Gers challenging work, with most employers providing | Sixth Q Option AGGEN FLPT FLPT ISFTY Option FLPT FLPT FLPT | 254 279 Quart A ² J 161 261 262 263 111 B ² 264 265 | Advanced Hydraulics Lab |
| Gradua program and prochinery Activitic purchase Each aron-the- | tes from have eumate maintees in seing, offer of | TORAULIC AND PNEUMATIC UTOMATION TECHNOLOGY A.A.S. Degree, Certificate: SCC om the hydraulic and pneumatic automation technology e developed skills to qualify for employment in hydraulic its sales, automated equipment fabrication or plant materiance work. ales and distribution vary from warehousing, inside sales, utside sales, power unit fabrication to field service work. fers challenging work, with most employers providing raining for product familiarization and developing the | Sixth Q Option AGGEN FLPT FLPT ISFTY Option FLPT FLPT FLPT FLPT FLPT | 254 279 Quart A ² J 161 261 262 263 111 B ² 264 265 268 | Advanced Hydraulics Lab |
| Gradua program and prochinery Activitic purchase Each aron-the-special | tes from have eumate maintees in seing, offer job triskills | TORAULIC AND PNEUMATIC UTOMATION TECHNOLOGY A.A.S. Degree, Certificate: SCC om the hydraulic and pneumatic automation technology e developed skills to qualify for employment in hydraulic ic sales, automated equipment fabrication or plant materiance work. ales and distribution vary from warehousing, inside sales, utside sales, power unit fabrication to field service work. Gers challenging work, with most employers providing | Sixth Q Option AGGEN FLPT FLPT ISFTY Option FLPT FLPT FLPT FLPT FLPT FLPT | 254 279 Quart A ² V 161 262 263 111 B ² 264 265 268 269 | Advanced Hydraulics Lab |
| Gradua program and prochinery Activitie purchase Each ar on-the-special product | tes from have eumate maintees in seing, o grea offi-job triskills es. | DRAULIC AND PNEUMATIC UTOMATION TECHNOLOGY A.A.S. Degree, Certificate: SCC om the hydraulic and pneumatic automation technology e developed skills to qualify for employment in hydraulic ic sales, automated equipment fabrication or plant materiance work. ales and distribution vary from warehousing, inside sales, utside sales, power unit fabrication to field service work. fers challenging work, with most employers providing raining for product familiarization and developing the required for sales and service in pneumatic automation | Sixth Q Option AGGEN FLPT FLPT ISFTY Option FLPT FLPT FLPT FLPT FLPT | 254 279 Quart A ² J 161 261 262 263 111 B ² 264 265 268 | Advanced Hydraulics Lab |
| Gradua program and prochinery Activitie purchas Each ar on-the-special product Activitie | tes from have eumate maintees in sisting, o rea offi-job triskills is. | DRAULIC AND PNEUMATIC UTOMATION TECHNOLOGY A.A.S. Degree, Certificate: SCC om the hydraulic and pneumatic automation technology e developed skills to qualify for employment in hydraulic ic sales, automated equipment fabrication or plant materiance work. ales and distribution vary from warehousing, inside sales, utside sales, power unit fabrication to field service work. fers challenging work, with most employers providing raining for product familiarization and developing the required for sales and service in pneumatic automation ude equipment or circuit design, shop assembly, instal- | Sixth Q Option AGGEN FLPT FLPT ISFTY Option FLPT FLPT FLPT FLPT FLPT FLPT FLPT | 254 279 Quart t A² J 161 262 263 111 B² 264 265 268 269 111 | Advanced Hydraulics Lab |
| Gradua program and prochinery Activitie purchase Each ar on-the-special product Activitie lation of | tes from have eumate maintes in signification. | DRAULIC AND PNEUMATIC UTOMATION TECHNOLOGY A.A.S. Degree, Certificate: SCC om the hydraulic and pneumatic automation technology e developed skills to qualify for employment in hydraulic ic sales, automated equipment fabrication or plant materiance work. ales and distribution vary from warehousing, inside sales, utside sales, power unit fabrication to field service work. fers challenging work, with most employers providing raining for product familiarization and developing the required for sales and service in pneumatic automation ude equipment or circuit design, shop assembly, instal- plex electro-hydraulic systems, field installation of new | Sixth Q Option AGGEN FLPT FLPT ISFTY Option FLPT FLPT FLPT FLPT FLPT FLPT FLPT SFTY Certif | 254 279 Quart A ² N 161 261 262 263 111 B ² 264 265 268 269 111 | Advanced Hydraulics Lab |
| Gradua program and prochinery Activitie purchas Each ar on-the-special product Activitie lation of equipm | tes from have eumate maintes in sesing, or ea officiob transkills is. | DRAULIC AND PNEUMATIC UTOMATION TECHNOLOGY A.A.S. Degree, Certificate: SCC om the hydraulic and pneumatic automation technology e developed skills to qualify for employment in hydraulic ic sales, automated equipment fabrication or plant materiance work. ales and distribution vary from warehousing, inside sales, utside sales, power unit fabrication to field service work. fers challenging work, with most employers providing raining for product familiarization and developing the required for sales and service in pneumatic automation ude equipment or circuit design, shop assembly, instal- | Sixth Q Option AGGEN FLPT FLPT ISFTY Option FLPT FLPT FLPT FLPT FLPT FLPT FLPT FLPT | 254 279 Quarte A ² N 161 262 263 111 B ² 264 265 268 269 111 | Advanced Hydraulics Lab |
| Gradua program and prochinery Activities purchase Each ar on-the-special product Activities lation of equipm world to | tes from have eumate maintes in sesing, or ea off-job trockills es. es include comment or cavel viewell viewel | DRAULIC AND PNEUMATIC UTOMATION TECHNOLOGY A.A.S. Degree, Certificate: SCC om the hydraulic and pneumatic automation technology e developed skills to qualify for employment in hydraulic ic sales, automated equipment fabrication or plant materiance work. ales and distribution vary from warehousing, inside sales, utside sales, power unit fabrication to field service work. Fers challenging work, with most employers providing raining for product familiarization and developing the required for sales and service in pneumatic automation ude equipment or circuit design, shop assembly, instalplex electro-hydraulic systems, field installation of new reservicing existing equipment. Field service can involve | Sixth Q Option AGGEN FLPT FLPT ISFTY Option FLPT FLPT FLPT FLPT FLPT FLPT FLPT FLPT | 254 279 Quart A ² V 161 262 263 111 B ² 264 265 268 269 111 Ficat V 152 | Advanced Hydraulics Lab |
| Gradua program and prochinery Activities purchase Each ar on-the-special product Activities lation of equipm world to Activities equipm | tes from have eumate maintees in sessing, or ea off coment or cavel ves in tent to ent | DRAULIC AND PNEUMATIC UTOMATION TECHNOLOGY A.A.S. Degree, Certificate: SCC om the hydraulic and pneumatic automation technology e developed skills to qualify for employment in hydraulic ic sales, automated equipment fabrication or plant materiance work. ales and distribution vary from warehousing, inside sales, utside sales, power unit fabrication to field service work. Fers challenging work, with most employers providing raining for product familiarization and developing the required for sales and service in pneumatic automation ude equipment or circuit design, shop assembly, instalplex electro-hydraulic systems, field installation of new reservicing existing equipment. Field service can involve with a lot of time away from home. industrial plant maintenance vary from installing new troubleshooting and repairing existing equipment. This | FLPT FLPT Sixth Q Option AGGEN FLPT FLPT ISFTY Option FLPT FLPT FLPT FLPT ISFTY Certif First Q AGGEN FLPT | 254 279 Quarte A ² V 161 262 263 111 B ² 264 265 268 269 111 Ficat uarte V 152 111 | Advanced Hydraulics Lab |
| Gradua program and prochinery Activities purchase Each ar on-the-special product Activities lation of equipm world to the Activities equipm requires and product activities and the Activities are activities are activities are activities and the Activities are activities are activities and the Activities are activities and the Activities are activities and the Activities are activities are activities and the Activities are Activities are activities and activities are activities are activities and activities ar | tes from have eumate maintes in sesing, or ea offices included from ent or eavel ves in tent to side evel and the side evel evel and the side evel evel and the side evel evel evel evel evel evel evel ev | DRAULIC AND PNEUMATIC UTOMATION TECHNOLOGY A.A.S. Degree, Certificate: SCC om the hydraulic and pneumatic automation technology e developed skills to qualify for employment in hydraulic ic sales, automated equipment fabrication or plant materiance work. ales and distribution vary from warehousing, inside sales, utside sales, power unit fabrication to field service work. Fers challenging work, with most employers providing raining for product familiarization and developing the required for sales and service in pneumatic automation unde equipment or circuit design, shop assembly, instalplex electro-hydraulic systems, field installation of new reservicing existing equipment. Field service can involve with a lot of time away from home. industrial plant maintenance vary from installing new troubleshooting and repairing existing equipment. This loping analytical procedures and certain mechanical abili- | Sixth Q Option AGGEN FLPT FLPT ISFTY Option FLPT FLPT FLPT FLPT FLPT FLPT FLPT FLPT | 254 279 Quart A ² V 161 262 263 111 B ² 264 265 268 269 111 Visit of the control of the contro | Advanced Hydraulics Lab |
| Gradua program and prochinery Activitie purchase Each ar on-the-special product Activitie lation of equipm world to Activitie equipm requires ties or s | tes from have eumate maintees in sessing, or ea offices in classing from ent or eavel ves in testills to develop the sessing testills to be developed to the sessing testills to the session t | DRAULIC AND PNEUMATIC UTOMATION TECHNOLOGY A.A.S. Degree, Certificate: SCC om the hydraulic and pneumatic automation technology e developed skills to qualify for employment in hydraulic ic sales, automated equipment fabrication or plant materiance work. ales and distribution vary from warehousing, inside sales, utside sales, power unit fabrication to field service work. For schallenging work, with most employers providing raining for product familiarization and developing the required for sales and service in pneumatic automation unde equipment or circuit design, shop assembly, instalplex electro-hydraulic systems, field installation of new reservicing existing equipment. Field service can involve with a lot of time away from home. Industrial plant maintenance vary from installing new of troubleshooting and repairing existing equipment. This loping analytical procedures and certain mechanical abilition improve equipment performance and reliability. | Sixth Q Option AGGEN FLPT FLPT ISFTY Option FLPT FLPT FLPT FLPT FLPT FLPT FLPT FLPT | 254 279 Quarte A2 V 161 262 263 111 B2 264 265 268 269 111 Visit of the control o | Advanced Hydraulics Lab |
| Gradua program and prochinery Activitie purchase Each ar on-the-special product Activitie lation of equipm world to Activitie equipm requires ties or s A 2.0 Gradua product A 2.0 Gradua product Activitie equipm requires ties or s A 2.0 Gradua program and product Activitie equipm requires ties or s A 2.0 Gradua program and progra | tes from have eumate maintees in sessing, or ea offices in classing from ent or cavel vies in the ent of sessing ent to sessing entitles entitle | TORAULIC AND PNEUMATIC UTOMATION TECHNOLOGY A.A.S. Degree, Certificate: SCC om the hydraulic and pneumatic automation technology e developed skills to qualify for employment in hydraulic ic sales, automated equipment fabrication or plant materiance work. ales and distribution vary from warehousing, inside sales, utside sales, power unit fabrication to field service work. For schallenging work, with most employers providing raining for product familiarization and developing the required for sales and service in pneumatic automation unde equipment or circuit design, shop assembly, instalplex electro-hydraulic systems, field installation of new reservicing existing equipment. Field service can involve with a lot of time away from home. Industrial plant maintenance vary from installing new of troubleshooting and repairing existing equipment. This loping analytical procedures and certain mechanical ability improve equipment performance and reliability. | Sixth Q Option AGGEN FLPT FLPT ISFTY Option FLPT FLPT FLPT FLPT FLPT FLPT FLPT FLPT | 254 279 Quarte A2 V 161 262 263 111 B2 264 265 268 269 111 Visit of the control o | Advanced Hydraulics Lab |
| Gradua program and prochinery Activitie purchase Each ar on-the-special product Activitie lation of equipm world to Activitie equipm requires ties or s A 2.0 G automa | tes from have eumate maintees in seing, of the ses included from ent or cavel vies in the ent to see the ent to | DRAULIC AND PNEUMATIC UTOMATION TECHNOLOGY A.A.S. Degree, Certificate: SCC om the hydraulic and pneumatic automation technology e developed skills to qualify for employment in hydraulic ic sales, automated equipment fabrication or plant materiance work. ales and distribution vary from warehousing, inside sales, utside sales, power unit fabrication to field service work. fers challenging work, with most employers providing raining for product familiarization and developing the required for sales and service in pneumatic automation ude equipment or circuit design, shop assembly, instalplex electro-hydraulic systems, field installation of new reservicing existing equipment. Field service can involve with a lot of time away from home. Industrial plant maintenance vary from installing new troubleshooting and repairing existing equipment. This loping analytical procedures and certain mechanical abilition improve equipment performance and reliability. better must be maintained in all hydraulic and pneumatic echnology coursework before advancing to the subsequent | Sixth Q Option AGGEN FLPT FLPT ISFTY Option FLPT FLPT FLPT FLPT FLPT FLPT FLPT FLPT | 254 279 Quart A ² J 161 262 263 111 B ² 264 265 268 269 111 112 113 114 | Advanced Hydraulics Lab |
| Gradua program and prochinery Activitie purchase Each ar on-the-special product Activitie lation of equipm world to Activitie equipm requires ties or s A 2.0 Grautoma quarter. | tes from have eumate maintees in serion. The serion is serion to the serion in the ser | DRAULIC AND PNEUMATIC UTOMATION TECHNOLOGY A.A.S. Degree, Certificate: SCC om the hydraulic and pneumatic automation technology e developed skills to qualify for employment in hydraulic ic sales, automated equipment fabrication or plant materiance work. ales and distribution vary from warehousing, inside sales, utside sales, power unit fabrication to field service work. fers challenging work, with most employers providing raining for product familiarization and developing the required for sales and service in pneumatic automation ude equipment or circuit design, shop assembly, instal- plex electro-hydraulic systems, field installation of new esservicing existing equipment. Field service can involve with a lot of time away from home. industrial plant maintenance vary from installing new to troubleshooting and repairing existing equipment. This loping analytical procedures and certain mechanical abili- to improve equipment performance and reliability. better must be maintained in all hydraulic and pneumatic exchnology coursework before advancing to the subsequent ents not meeting this minimum requirement may repeat | Sixth Q Option AGGEN FLPT FLPT ISFTY Option FLPT FLPT FLPT FLPT FLPT FLPT FLPT FLPT | 254 279 Quartt A ² I 161 262 263 111 B ² 264 265 268 269 111 112 113 114 I Qua | Advanced Hydraulics Lab |
| Gradua program and prochinery Activitie purchase Each ar on-the-special product Activitie lation of equipm world to Activitie equipm requires ties or s A 2.0 G automa quarter, the court | tes from have eumate maintees in seing, of the ses included from ent or cavel view in the ses in the ses in the ent to see the ent t | DRAULIC AND PNEUMATIC UTOMATION TECHNOLOGY A.A.S. Degree, Certificate: SCC om the hydraulic and pneumatic automation technology e developed skills to qualify for employment in hydraulic ric sales, automated equipment fabrication or plant materiance work. ales and distribution vary from warehousing, inside sales, rutside sales, power unit fabrication to field service work. fers challenging work, with most employers providing raining for product familiarization and developing the required for sales and service in pneumatic automation ude equipment or circuit design, shop assembly, instal- plex electro-hydraulic systems, field installation of new reservicing existing equipment. Field service can involve with a lot of time away from home. Industrial plant maintenance vary from installing new toroubleshooting and repairing existing equipment. This loping analytical procedures and certain mechanical abili- to improve equipment performance and reliability. better must be maintained in all hydraulic and pneumatic exchnology coursework before advancing to the subsequent ents not meeting this minimum requirement may repeat one time before progressing. A student who is below the | Sixth Q Option AGGEN FLPT FLPT ISFTY Option FLPT FLPT FLPT FLPT FLPT FLPT FLPT FLPT | 254 279 Quartt A ² I 161 262 263 111 B ² 264 265 268 269 111 112 113 114 I Qua 100 | Advanced Hydraulics Lab |
| Gradua program and prochinery Activitie purchase Each ar on-the-special product Activitie lation of equipm world to Activitie equipm requires ties or s A 2.0 G automa quarter, the court | tes from have eumate maintees in sessing, of the ent of care of the ent of th | DRAULIC AND PNEUMATIC UTOMATION TECHNOLOGY A.A.S. Degree, Certificate: SCC om the hydraulic and pneumatic automation technology e developed skills to qualify for employment in hydraulic ic sales, automated equipment fabrication or plant materiance work. ales and distribution vary from warehousing, inside sales, utside sales, power unit fabrication to field service work. fers challenging work, with most employers providing raining for product familiarization and developing the required for sales and service in pneumatic automation ude equipment or circuit design, shop assembly, instal- plex electro-hydraulic systems, field installation of new reservicing existing equipment. Field service can involve with a lot of time away from home. industrial plant maintenance vary from installing new to troubleshooting and repairing existing equipment. This loping analytical procedures and certain mechanical abili- to improve equipment performance and reliability. better must be maintained in all hydraulic and pneumatic exchnology coursework before advancing to the subsequent ents not meeting this minimum requirement may repeat one time before progressing. A student who is below the GPA may seek a one-time waiver with the approval of | Sixth Q Option AGGEN FLPT FLPT ISFTY Option FLPT FLPT FLPT FLPT FLPT FLPT FLPT FLPT | 254 279 Quartt A ² I 161 262 263 111 B ² 264 265 268 269 111 112 113 114 I Qua | Advanced Hydraulics Lab |
| Gradua program and prochinery Activitie purchase Each ar on-the-special product Activitie lation of equipm world to Activitie equipm requires ties or s A 2.0 Grautoma quarter. The couminimu | tes from have eumate maintees in sessing, of the sessing eart of the session decrease (s) in 2.0 sion decrease (s) i | DRAULIC AND PNEUMATIC UTOMATION TECHNOLOGY A.A.S. Degree, Certificate: SCC om the hydraulic and pneumatic automation technology e developed skills to qualify for employment in hydraulic ic sales, automated equipment fabrication or plant materiance work. ales and distribution vary from warehousing, inside sales, utside sales, power unit fabrication to field service work. For schallenging work, with most employers providing raining for product familiarization and developing the required for sales and service in pneumatic automation ude equipment or circuit design, shop assembly, instalplex electro-hydraulic systems, field installation of new reservicing existing equipment. Field service can involve with a lot of time away from home. Industrial plant maintenance vary from installing new of troubleshooting and repairing existing equipment. This loping analytical procedures and certain mechanical abilition improve equipment performance and reliability. Better must be maintained in all hydraulic and pneumatic exchnology coursework before advancing to the subsequent ents not meeting this minimum requirement may repeat one time before progressing. A student who is below the GPA may seek a one-time waiver with the approval of ean. | Sixth Q Option AGGEN FLPT FLPT ISFTY Option FLPT FLPT FLPT FLPT FLPT FLPT FLPT FLPT | 254 279 Quartt A ² J 161 262 263 111 B ² 264 265 268 269 111 112 113 114 1 Qua 100 105 | Advanced Hydraulics Lab |

Third Quarter APLED 121 Applied Written Communication¹......4 FLPT 131 Hydraulic Systems 6 **FLPT FLPT** 133 FLPT FLPT **Fourth Quarter** APLED 123 Leadership Skills for Business and Industry OR APLED 125 120 credits are required for an A.A.S. degree and 65 credits are required

120 credits are required for an A.A.S. degree and 65 credits are required for a certificate.

- ¹ This related education requirement may be met by any course or combination of courses approved by the instructional dean.
- ² Sixth quarter courses may be substituted with the following courses with department permission: FLPT 266 (1 credit) and FLPT 267 (1 to 16 credits) or FLPT 288 (1 to 17 credits).

INFORMATION PROCESSING

A.A.S. Degree: SFCC

This program is for students who desire to work in an office environment using their skills in computer software applications, desktop publishing, web publishing, communications, business management, and office procedures.

This two-year degree prepares graduates to choose from a wide variety of positions available in business, industry, or non-profit organizations. Students will acquire speed and accuracy on the keyboard, develop business writing skills, acquire skills in troubleshooting routine computer problems, and develop a solid working knowledge of Microsoft Applications. 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 class-room and the working world by participating in model office simulations as well as a professional work experience internship.

FIRST YEAR

| 111131 | | | |
|---------|-------|---------------------------------------|-----|
| First Q | uarte | r | |
| BT | 101 | Keyboarding ¹ | . 5 |
| BT | 107 | Business Communications ² | . 3 |
| GENST | 106 | College Success | . 3 |
| IS | 120 | Business Computer Use | . 3 |
| IS | 160 | Internet Fundamentals | . 1 |
| | | Total | 15 |
| Second | l Qua | rter | |
| ACCT | 103 | Fundamental Bookkeeping Procedures | . 3 |
| BT | 102 | Document Processing | . 5 |
| BT | 108 | Business Communications ² | |
| GBUS | 102 | Math Skills for Business ³ | |
| | | Elective | |
| | | Total | 15 |
| Third (| Quart | er | |
| BT | 103 | Formatting | . 5 |
| BT | 155 | Records Information Management | |
| BT | 231 | Office Procedures | |
| CAPPS | | Excel | |
| GRDSN | J 158 | PhotoShop I | |
| | | Total | 17 |
| SECON | ID YE | AR | |
| Fourth | Quar | rter | |
| BT | 170 | WordPerfect 1 | 2 |
| BT | 257 | Presentation Graphics/Publishing | . 3 |
| BT | 272 | Business Correspondence | |
| GRDSN | J 126 | Web Production | |
| IS | 210 | Internet Programming I | . 3 |
| | | | |

| Fifth Q | uarte | r |
|---------|-------|--|
| BT | 235 | Machine Transcription |
| BT | 255 | Business Productivity Tools |
| BT | 260 | Administrative Office Management5 |
| CAPPS | 114 | Access |
| CAPPS | 120 | Outlook |
| | | Total 17 |
| Sixth Q | uarte | er |
| BT | 160 | Job Preparation Techniques |
| BT | 201 | Information Processing |
| BT | 234 | Administrative Professional Practicum 5 |
| BT | 270 | Office Computer Support |
| BT | 285 | Administrative Professional Internship 2 |
| | | Total |
| 07 1: | | |

97 credits are required for an A.A.S. degree.

See department for listing of approve electives.

- Students may take BT 102 if they possess keyboarding skills at 35 wpm and knowledge of business document formatting. Permission of instructor recommended.
- ² ENG 101 may be substituted.
- ³ GBUS 103 may be substituted.

INFORMATION TECHNOLOGY

A.A.S. Degree: SFCC

The Information Technology A.A.S. 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. There are four areas of emphasis: General Development, Forensics/Security, Web Development, and Transfer. The first year is made up of mostly core requirements with more specialization in the second year.

Core Requirements

FIRST YEAR

| | -/ 414 | |
|----------|--------|----------------------------------|
| First Qu | uarte | r |
| IS | 101 | Survey of Information Technology |
| IS | 142 | Hardware Fundamentals |
| IS | 143 | Operating System Fundamentals |
| IS | 144 | Programming Fundamentals |
| IS | 160 | Internet Fundamentals |
| MATH | 099 | Intermediate Algebra5 |
| | | Total16 |
| Second | Qua | rter |
| BT | 100 | Keyboarding for Computers |
| CAPPS | 110 | Word |
| CAPPS | 112 | Excel |
| CS | 121 | Unix/Linux |
| CS | 223 | VB.NET |
| GRDSN | 158 | PhotoShop I ¹ |
| | | Total15-17 |
| Third Q | uart | er |
| BT | 272 | Business Correspondence OR |
| ENG | 205 | Technical Writing |
| CAPPS | 114 | Access |
| IS | 132 | Computer Ethics |
| | | Electives List A |

General Development

94 credits are required for an A.A.S. degree.

| SECON | | Development AD | SECOND YEAR | | | | |
|----------|-------------------------|---------------------------------------|---------------------|----------------|---|--|--|
| | | | | | | | |
| Fourth | | | Fourth | • | | | |
| IS 10 | | Data Communications and Networks | IS | | Data Communications and Networks | | |
| IS IS | 164 210 | Network Management | IS | | Network Management | | |
| is Is | | Network Security I | IS IS | 210 | Internet Programming I | | |
| 10 | 244 | Total | 13 | 244 | Network Security I | | |
| =:(:1. 0 | | | | | | | |
| Fifth Q | | | Fifth Q | uarte | | | |
| IS | 240 | 1 11 | IS | 240 | Computer and Network Support | | |
| IS | 260 | Database Theory | IS | 260 | Database Theory | | |
| | | List B Electives | | | Electives List C | | |
| | | Total | | | Total | | |
| Sixth Q | | | Sixth C | • | er | | |
| CAPPS | | | CAPPS | | Outlook | | |
| GRDSN | | PhotoShop I | IS | 228 | Internet Servers | | |
| IS | 209 | Internet Project | IS | 266 | Cooperative Education Seminar | | |
| IS 1C | 228 | Internet Servers | IS | 267 | Cooperative Education Work Experience | | |
| IS IS | 266 267 | Cooperative Education Seminar | | | Electives List C | | |
| 13 | 207 | Total | | | Total | | |
| 04 gradi | to are | required for this A.A.S. degree. | 94 credi | its are | required for this A.A.S. degree. | | |
| 94 Cleui | is are | required for this A.A.S. degree. | LIST A- | LEAD | ERSHIP APPROVED ELECTIVES: | | |
| Foren | sics | s/ Security Emphasis | BT | 260 | Administrative Office Management | | |
| SECON | | | GBUS | 105 | Principles of Leadership | | |
| | | | GBUS | 280 | Human Relations in Business | | |
| Fourth | | | HS | 136 | Improving Interpersonal Communication | | |
| IS | | Data Communications and Networks | HS | 238 | Group Effectiveness Training | | |
| IS IS | | Network Management | HSSUB | | Group Process in Chemical Dependency Treatment | | |
| IS | | Network Security I | IS | 250 | Introduction to E-commerce | | |
| 10 | 211 | Total | LIST B- | APPR | OVED ELECTIVES: | | |
| rifth O | | | BT | 160 | Job Preparation Techniques | | |
| Fifth Q | | | GENST | 115 | Internet Issues | | |
| IS IS | 236 | Computer and Naturals Support | SBM | 101 | How to Start a Small Business | | |
| IS | | Computer and Network Support | | | Any IS/CS class 2-5 | | |
| 13 | 243 | Total | LIST C- | TRAN | SFER APPROVED ELECTIVES: | | |
| 61.41.6 | | | Non-El | ective | Classes from AA distribution list. | | |
| Sixth Q | | | ¹ Web I | Develor | oment Option only. | | |
| CAPPS | | Outlook | | , | | | |
| IS IS | 238 247 | 1 | | | INTEGRATED BUSINESS | | |
| IS | | Cooperative Education Seminar | ΛN | n E | NTREPRENEURSHIP PROGRAM | | |
| IS | | Cooperative Education Work Experience | AIN | D E | NIKEPKENEUKSHIP PROUKAWI | | |
| 10 | 207 | Total | | | Certificate: SCC | | |
| 05 gradi | tc aro | required for this A.A.S. degree. | The IRI | Enroc | | | |
| 95 Cledi | is are | required for this A.A.S. degree. | | | gram offers a hands-on approach to training our futur ers and entrepreneurs. Students from all areas of study wi | | |
| Web | Dev | elopment Emphasis | | | a year-long business experience where they will create | | |
| SECON | D YE | AR | | | the ground up. College instructors and local business and | | |
| Fourth | Ouai | rter | | | aders guide student teams through the process of startin | | |
| GRDSN | | | | | g a business. Students will master academic material b | | |
| IS | 162 | Data Communications and Networks | produci | ing de | liverables in an authentic business environment created | | |
| IS | 164 | Network Management | on the S | SCC c | ampus. | | |
| IS | | Internet Programming I | Select s | tuden | ts enter the program after completing an application and | | |
| | | Total | intervie | w pro | cess facilitated by the IBE instructors. | | |
| Fifth Q | uarte | | First Q | uarte | r¹ | | |
| CAPPS | | | IBE | | Integrated Business and Entrepreneurship Principles I. 1 | | |
| IS | 212 | Internet Programming II | | | Total | | |
| IS | 216 | Applied XML | Second | d Oue | rter | | |
| IS | | Database Theory | IBE | - | | | |
| | | Total | IDE | ZUZ | Integrated Business and Entrepreneurship Principles II 10 Total 10 | | |
| Sixth Q | uart | | TLS.: 1 4 | 0 - ::f | | | |
| IS | 209 | Internet Project | Third (| • | | | |
| IS | 214 | Internet Programming III | IBE | 203 | Integrated Business and Entrepreneurship Principles III 1 | | |
| IS | 228 | Internet Servers | | | Total | | |
| IS | 266 | Cooperative Education Seminar | 30 credi | its are | required for a certificate. | | |
| IS | 267 | | ¹ Select | studen | ts enter the program after completing an application and interview | | |
| | | Total | proces | SS. | | | |
| 01 0001: | L o o m o | raquired for an A A S dogram | | | | | |

Transfer Emphasis

INTERIOR DESIGN

A.A.S. Degree, 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 (A.A.S.) 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 A.A.S. degree by completing an optional one-year program. These students will have their A.A.S. 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 broader 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 at least 165 hours of internship that will ease the transition from school to work. In order to be certified into the third year program, students must complete a review process upon completion of their second year.

Spokane Falls Community College and Washington State University have an articulation agreement offering interior design students the best of both worlds in education and career choices. The partnership allows students to begin at SFCC, earn a three-year professional diploma, then transfer with senior standing to WSU Spokane's Interdisciplinary Design Institute, where they can earn a four-year bachelor's degree. For more information, refer to the Interior Design-Transfer Track Career Planning Guide.

FIRST YEAR

| First Qu | uarte | r |
|---|---|--|
| HS INTDS INTDS INTDS | 136 105 170 173 | Improving Interpersonal Communication 5 Design Drawing 6 Elements of Interior Design 7 Architectural Graphics 1 Total 18 |
| Second | Qua | rter |
| ENG INTDS INTDS INTDS | 101 106 179 184 | English Composition 5 Sketching Techniques 4 History of Interiors I 3 Architectural Graphics II 4 |
| | | Total |
| Third Q | | |
| ENG SPCH ENG SPCH INTDS INTDS INTDS | 109 101 111 285 107 187 280 | Speech Composition AND Introduction to Speech Communication OR Composition For Speech AND Effective Speaking |
| Fourth | Quar | ter |
| GBUS MATH INTDS INTDS INTDS | 102 115 171 174 175 | Math Skills for Business OR Math for the Liberal Arts. 3-5 Interior Design Studio I. 6 Design Presentation 4 Materials of Interior Design 5 Total 18-20 |
| Fifth Q | uarte | |
| FMDSE IS INTDS INTDS INTDS | 180 120 172 180 186 | Retail Sales Techniques OR Business Computer Use |

| Sixth Q | uarto | er | |
|----------|--------|---------------------------------------|-----|
| INTDS | 176 | Special Environments | |
| INTDS | 181 | History of Interiors III | . 3 |
| INTDS | 185 | Architectural Space Systems | |
| | | Elective | |
| | | Total | 18 |
| 103-105 | credi | ts are required for an A.A.S. degree. | |
| Profe | ssio | nal Diploma | |
| First Q | uarte | r | |
| INTDS | 275 | Professional Practices | |
| INTDS | 281 | Commercial Design Studio I | |
| INTDS | 285 | Computer Aided Design I | |
| | | Elective | |
| | | Total | 17 |
| Second | l Qua | rter | |
| INTDS | 282 | Commercial Design Studio II | |
| INTDS | 286 | Computer Aided Design II | . 4 |
| INTDS | 287 | Digital Interior Design Technology | |
| | | Total | 14 |
| Third Q |)uart | er | |
| INTDS | 266 | Cooperative Education Seminar | . 2 |
| INTDS | 267 | Cooperative Education Work Experience | . 5 |
| INTDS | 268 | Design Portfolio | |
| | | Elective | . 5 |
| | | Total | 15 |
| 46 credi | ts are | required for a Professional Diploma. | |
| | | | |

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

¹ See department for list of suggested electives.

INTERNATIONAL BUSINESS

Certificate: SFCC

The international business certificate is designed to meet the growing demand for internationally related skills. It is offered as a stand-alone certificate for students and business people who need specific credentials in the international area OR as an internationally oriented training certificate for students with career goals and degrees in traditional business fields such as marketing, management, accounting, retailing and so on.

The program has two objectives:

- To introduce students to the world of global business, to expose them to intercultural implications involved in doing business internationally and to prepare them for entry-level positions.
- To prepare currently employed business people, who have specific job skills, for advancement to positions of greater responsibility with an international emphasis.

First Quarter

| BT | 107 | Business Communications | 3 |
|-------------|-----|--|---|
| GBUS | 102 | Math Skills for Business | 3 |
| GBUS | 120 | International Business | 5 |
| GBUS | 180 | Travel and Tourism | 3 |
| MMGT | 181 | Leadership Training-DEC | L |
| | | Total | |
| Second | Qua | rter | |
| ECON | 100 | Fundamentals of Economics | 5 |
| GBUS | 140 | International Marketing | 3 |
| GBUS | 185 | Travelography: Destinations for Business and Tourism 3 | |
| GENST | 291 | Educational Tour | 2 |
| MMGT | 182 | Leadership Training-DEC | L |
| | | Special Project1 | 1 |
| | | Special Project ¹ | L |

30 credits are required for a certificate.

¹ Special project may be in the form of a written report, seminar attendance, cooperative education work experience, directed study or internship.

INTERNET

Certificate: SFCC

The Internet certificate program provides students with the skills necessary to design implement and maintain World Wide Web sites in a professional manner.

Student learn Internet basics and web design principles; to effectively incorporate graphics and multimedia into web pages; to format pages using markup language; web programming; to incorporate programming into interactive pages; and the culture of how the internet works. Students also gain experience in combining all of these skills in real-

This certificate is designed to be either a stand-alone program or to be combined with the other programs or experience to add needed

The additional Networking option provides students with the skills required for dealing with the hardware and software used to maintain a Web server.

214 Internet Programming III 5

Approved Electives 5

Internet

IS

IS

First Ouarter

| GRDSN | 126 | Web Production |
|---------|------|-------------------------|
| | | PhotoShop I |
| | | Internet Programming I |
| 10 | 210 | Total14 |
| Second | | |
| CAPPS | 114 | Access ² |
| CAPPS | 132 | Frontpage |
| CS | 223 | VB.NET ³ |
| IS | 212 | Internet Programming II |
| | | Total14 |
| Third Q | uart | er |

41 credits are required for this certificate.

APPROVED ELECTIVES:

| CAPPS | 114 | Access ² | 2 |
|--------------|-----|-------------------------------|---|
| GRDSN | 166 | PhotoShop II | 2 |
| | | Introduction to E-commerce | |
| SBM | 101 | How to Start a Small Business | 5 |

- ¹ Concurrently enrolled on MATH 91 or higher placement.
- ² Access is a variable 5-credit course. Students may enroll in an additional 2 credits of Access to satisfy the elective component.
- ³ Concurrently enrolled on MATH 92 or higher placement.

Internet: Networking Option First Quarter

| CS | 101 | Computer Literacy ¹ |
|-------|-----|----------------------------------|
| GRDSN | 158 | PhotoShop I |
| | | Data Communications and Networks |
| IS | 210 | Internet Programming I |
| | | Total |

Second Quarter

| CAPPS | 114 | Access ² | | | | |
|---------|---------------|----------------------|--|--|--|--|
| CS | 223 | VB .NET ³ | | | | |
| IS | 164 | Network Management | | | | |
| | | Total12 | | | | |
| Third (| Third Quarter | | | | | |
| IS | 132 | Computer Ethics | | | | |
| IS | 209 | Internet Project | | | | |
| IS | 228 | Internet Servers | | | | |
| | | Approved Electives | | | | |

40 credits are required for this certificate.

APPROVED ELECTIVES:

| CAPPS | 114 | Access ² | 2 |
|-------|-----|-------------------------------|---|
| CAPPS | 132 | Frontpage | 1 |
| | | Internet Issues | |
| GRDSN | 166 | PhotoShop II | 2 |
| IS | 250 | Introduction to E-commerce | 5 |
| SBM | 101 | How to Start a Small Business | 5 |
| | | | |

- ¹ Concurrently enrolled on MATH 91 or higher placement.
- Access is a variable 5-credit course. Students may enroll in an additional 3 credits of Access to satisfy the elective component.
- ³ Concurrently enrolled on MATH 92 or higher placement.

INTERPRETER TRAINING PROGRAM/ **DEAFNESS**

A.A.S. Degree, Certificate: SFCC

Interpreter training program/deafness is an innovative program designed to train people to work with the hearing impaired. Graduates of the program have acquired the necessary skills to work with the hearing impaired in the following areas:

- Education—as an interpreter, interpreter tutor or teacher's assistant
- Community services—vocational rehabilitation, community service centers and other agencies
- Sign language teachers—setting up sign language courses in local areas
- Industrial settings—as interpreters in large companies to assist with on-the-job training and/or other designated positions

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 the hearing impaired to all areas of employment, social services and education.

151 College Reading and Study Skills...... 5

FIRST YEAR

First Quarter

HSEAR 251

Fifth Quarter

HSEAR 202

HSEAR 252

101 HLTH 174

HLTH

| HS | 136 | Improving Interpersonal Communication 5 |
|--------------|------|--|
| HSEAR | 101 | American Sign Language I ¹ 5 |
| HSEAR | 106 | |
| | | Total20 |
| Second | Qua | rter |
| HSEAR | 102 | American Sign Language II ¹ |
| HSEAR | 151 | Education of the Hearing Impaired ¹ 5 |
| | | Basic Skills Elective (Communication) 5 |
| | | Social Service Elective ² 5 |
| | | Total20 |
| Third Q | uart | er |
| HSEAR | | American Sign Language III ¹ 5 |
| HSEAR | 154 | Introduction to Interpreting ¹ 5 |
| | | Education Elective ² |
| | | Social Science Elective ² 5 |
| | | Total20 |
| SECON | D YE | AR |
| Fourth | Quar | ter |
| ENG | 109 | Speech Composition AND |
| SPCH | 101 | Introduction to Speech Communication 5 |
| HSEAR | | Voicing ¹ |
| | | - |

Science Elective²......5

Health and Wellness OR

Certificate

Sixth Quarter

Students applying for a certificate of completion must complete a specified 63-credit sequence of courses in the human services interpreter training program/deafness program.

| GBUS | 102 | Math Skills for Business |
|--------------|-----|--|
| HSEAR | 102 | American Sign Language II ¹ |
| HSEAR | 103 | American Sign Language III ¹ 5 |
| HSEAR | 106 | Introduction to Deaf Culture ¹ 5 |
| HSEAR | 151 | Education of the Hearing Impaired ¹ 5 |
| HSEAR | 154 | Introduction to Interpreting ¹ 5 |
| HSEAR | 201 | Voicing ¹ |
| HSEAR | 202 | Transliterating I ¹ |
| HSEAR | 203 | Transliterating II ¹ |
| HSEAR | 251 | ASL Interpreting I ¹ |
| HSEAR | 252 | ASL Interpreting II ¹ |
| HSEAR | 253 | ASL Interpreting III ¹ 5 |
| HSEAR | 281 | Interpreting Practicum I ¹ |
| | | Total |

116 credits are required for the A.A.S. degree and 63 credits are required for a certificate.

Students who have completed the above requirements may apply for the certificate by completing the Application for Education Certificate form, which is available in the human services department office.

- ¹ These courses are offered every quarter, except summer.
- ² Electives must be related to the student's declared field of interest and approved by the interpreter training program/deafness adviser.

INVASIVE CARDIOVASCULAR TECHNOLOGY

A.A.S. Degree: 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 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 quarter 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

Admission Prerequisite/Requirements:

- High school diploma or GED certificate
- MATH 099
- CHEM 161
- BIOL 101
- Appropriate scores in one of the following: ASSET or Compass

Admissions Recommendations:

- Computer skills
- Active email account

FIRST YEAR

| FIKS | I YEAK | | |
|--------------------------|-------------------|--------------------------------------|--------|
| First | t Quarte | r | |
| A-P CHE ICT NCT | 114 | Human Anatomy and Physiology | 5 4 |
| Seco | ond Qua | rter | |
| A-P ICT NCT PHY | 243 124 123 | Human Anatomy and Physiology | 4 |
| Thir | d Quart | | . 10 |
| ICT ICT NCT PHY | 134 138 133 | Invasive Cardiovascular Fundamentals | 3 5 |
| Fou | rth Quai | ter | |
| ICT | 144 OND YE | Cardiac Catheterization I | |
| | n Quarte | | |
| ICT | • | Cardiac Catheterization II | |
| Sixt | h Quarte | er | |
| ICT | 224 | Cardiac Catheterization III | |
| | | | |

107 credits are required for an A.A.S. degree.

Seventh Quarter

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.

LEGAL ADMINISTRATION

A.A.S. Degree: 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. Admission into the degree program requires the permission of the paralegal program coordinator and is dependent upon experience and training. Experience and/or training in administration, marketing, accounting, business management, or law is preferred, but is not a mandatory prerequisite.

FIRST YEAR

| First Quarter | | | |
|---------------|-----|--------------------------|----|
| ENG | 101 | English Composition | 5 |
| MATH | 099 | Intermediate Algebra | 5 |
| MMGT | 101 | Principles of Management | 5 |
| | | Total | 15 |

Second Quarter ACCT 101 Principles of Accounting 5 218 MMGT 211 Marketing...... 5 SPCH **Third Quarter** ACCT CATT 134 Presentation Graphics 5 Human Resource Management 5 MMGT 231 **SECOND YEAR Fourth Quarter ACCT** CIS Human Relations in Business...... 5 **GBUS** LA **Fifth Quarter** GBUS LA LA Special Issues Seminar 5 Supervised Legal Work Experience¹......4 LA **Sixth Quarter** CATT CATT LA I.A 92 credits are required for an A.A.S. degree. ¹ A total of 3 credits of MMGT 100 (Supervised Volunteer Experience) may be used to substitute a portion of LA 245.

LEGAL ADMINISTRATIVE ASSISTANT

A.A.S. Degree, 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.

FIRST YEAR

| First Q | uarte | r |
|-------------|-------|--|
| BT | 090 | Basic Grammar for Business II 5 |
| BT | 102 | Document Processing ¹ |
| BT | 151 | Business Student Preparation 5 |
| | | Total |
| Second | d Qua | rter |
| BT | 109 | Business Communications 5 |
| BT | 165 | Word Processing |
| CATT | 102 | Introduction to Outlook |
| GBUS | 103 | Basic Business Math and Electronic Calculators 5 |
| | | Total17.5 |
| Third (| Quart | er |
| BT | 160 | Job Preparation Techniques |
| BT | 231 | Office Procedures |
| BT | 235 | Machine Transcription |
| | | Elective (from list of suggested courses) ² |
| | | Total 18 |

SECOND YEAR3

| Fourth | Fourth Quarter | | | | |
|----------|----------------|--|--|--|--|
| BT | 272 | Business Correspondence 5 | | | |
| LSEC | 236 | Legal Terminology | | | |
| LSEC | 239 | Legal Formatting ⁴ | | | |
| LSEC | 249 | Legal Formatting Procedures ⁴ 5 | | | |
| | | Total20 | | | |
| Fifth Q | uarte | r | | | |
| LSEC | 216 | Legal Office Procedures ⁵ | | | |
| LSEC | 237 | Legal Terminology | | | |
| LSEC | 244 | Legal Machine Transcription ⁶ 5 | | | |
| | | Electives (from list of suggested courses) ² | | | |
| | | Total20 | | | |
| Sixth Q | uarto | er e | | | |
| BT | 250 | Information Technology | | | |
| LA | 105 | Washington Court Rules-State and Federal ⁷ | | | |
| LSEC | 233 | Legal Office Practice | | | |
| LSEC | 285 | Legal Office Internship | | | |
| | | Total | | | |
| 108.5 cr | edits a | are required with 2.0 grade or better in each class for an | | | |

108.5 credits are required with 2.0 grade or better in each class for ar A.A.S. degree.

The program includes a mentoring program where students have the option to be assigned to work with a practicing legal administrative assistant during the school year to receive additional training and on-the-job experience.

- 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 108.5 credits requirement for graduation.
- ² Electives must be taken from the following list of courses 10 credits total: ACCT 101 Principles of Accounting OR ACCT151 BT201 GBUS 204 GBUS 280 Human Relations in Business 5 MSEC 101 Medical Terminology and Anatomy 5 SPCH 102 Interpersonal Communication 5 Other unnamed 5-credit courses may be substituted with approval of the program coordinator.
- 3 To enter the second year of the A.A.S. degree program, students must pass competency tests in the following areas:
 - *Math (fractions, percentages, etc.)*
 - Writing (write a basic letter, memo, and/or e-mail with correct spelling, punctuation, grammar, etc.)
 - Format documents from unarranged copy in a timed situation (letters, memos, reports, tables) using MS Word
 - Keyboarding skills of 40 wpm.
- ⁴ 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 with a 2.0 grade or better, or with permission of the program coordinator.
- 5 LSEC 239 or 249 and enrollment in the legal administrative assistant program, or permission of the instructor.
- 6 BT 235 and LSEC 239 or 249 with a 2.0 grade or better or permission of the instructor.
- 7 LA 105 may be substituted with LA 223 (for students interested in seeking employment in Idaho).

Certificate¹ First Quarter

BT 109 Business Communications2 5 BT 231 Office Procedures3 5 LSEC 236 Legal Terminology 5 LSEC 239 Legal Formatting4 5 LSEC 249 Legal Formatting Procedures4 5 Total 25

Second Quarter

| 216 | Legal Office Procedures ⁵ 5 |
|------|---|
| 237 | Legal Terminology 5 |
| 244 | Legal Machine Transcription ⁶ |
| | Electives (see approved list) ⁷ |
| | Total20 |
| uart | er |
| 103 | Basic Business Math and Electronic Calculators 5 |
| 105 | Washington Court Rules-State and Federal ⁸ 3 |
| 233 | Legal Office Practice |
| 285 | Legal Office Internship |
| | Total |
| | 237 244 uart c 103 105 233 |

63 credits with a grade of 2.0 or better in each class are required for a certificate.

- ¹ To enter the certificate program, students must pass a keyboarding test with 40 wpm or more and pass a skills test using the word processing package utilized in the legal administrative assistant program.
- ² Must be taken during the first quarter concurrent with LSEC 239 and 249.
- ³ This course may be substituted with any related course, a combination of courses or prior office experience approved by the program coordinator.
- ⁴ 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 with a 2.0 grade or better, or with permission of the program coordinator.
- 5 LSEC 239 or 249 and enrollment in the legal administrative assistant program or permission of instructor.
- 6 BT 235 and LSEC 239 or 249 with a 2.0 grade or better or permission of instructor.
- ⁷ Electives must be taken from the following list of courses:

| ACCT : | 101 | Principles of Accounting OR | |
|----------|------|--|---|
| ACCT : | 151 | College Accounting I | 5 |
| BT 2 | 201 | Information Processing | 5 |
| GBUS 2 | | Introduction to Law | |
| GBUS 2 | 280 | Human Relations in Business | 5 |
| MSEC : | 101 | Medical Terminology and Anatomy | 5 |
| SPCH : | 102 | Interpersonal Communication | 5 |
| Other un | тате | ed courses may be substituted with approval of program | |
| coordina | tor. | | |
| | | | |

8 LA 105 may be substituted with LA 223 (for students interested in seeking employment in Idaho).

LEGAL INFORMATION PROCESSING

Certificate: SCC

This program prepares students for legal office positions where the primary duties are the operation of disk-controlled 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.

FIRST YEAR

| First Q | uarte | r e | |
|---------|-------|--|------|
| BT | 102 | Document Processing | 5 |
| BT | 109 | Business Communications | 5 |
| BT | 151 | Business Student Preparation | 5 |
| LSEC | 236 | Legal Terminology | 5 |
| | | Total | |
| Second | l Qua | rter | |
| BT | 231 | Office Procedures | |
| CATT | 102 | Introduction to Outlook | .2.5 |
| LSEC | 237 | Legal Terminology | 5 |
| LSEC | 239 | Legal Formatting ¹ | 5 |
| | | Total | 17.5 |
| Third Q | Quart | er | |
| BT | 201 | Information Processing | 5 |
| BT | 272 | Business Correspondence | 5 |
| GBUS | 103 | Basic Business Math and Electronic Calculators | 5 |
| LSEC | 216 | Legal Office Procedures | |
| | | Total | . 20 |
| | | | |

SECOND YEAR

| Fourth Quarter | | | | |
|----------------|-----|---------------------------------|-----|--|
| BT | 165 | Word Processing | . 5 | |
| BT | 202 | Advanced Information Processing | . 5 | |
| BT | 250 | Information Technology | . 5 | |
| LSEC | 285 | Legal Office Internship | . 3 | |
| | | Total | 10 | |

75.5 credits are required for a certificate with a minimum grade of 2.0 in each class.

¹ Prerequisites for enrollment in this class are BT 102, 109 and 165, and a keyboarding speed of 40 wpm, or permission of the program coordinator.

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 nationally ranked 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 A.A.S. 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 or 249 and a college-level computer course recommended to be selected from the BT, CIS or LSEC departments' offerings.

General Education Courses

| MA] | ΓH 111 | Pre-Calculus I OR higher ^{1,2} |
|-----|----------|---|
| | | Social Science course ¹ AND/OR |
| | | Humanities course ¹ 5 |
| | | Total |
| Oth | er Cours | es |
| GBU | JS 104 | Business Mathematics ² 0-5 |
| | | Total |
| Bas | ic Cours | es |
| LA | 100 | Legal Careers Orientation |
| LA | 102 | Introduction to Legal Nursing |
| LA | 105 | Washington Court Rules-State and Federal 3 |
| LA | 110 | Legal Research and Writing ³ 5 |
| LA | 118 | Instrument Drafting |
| LA | 120 | Law Office Computing ⁴ 5 |
| LA | 130 | Legal Ethics |
| LA | 135 | Professional Effectiveness |
| | | Total20 |
| Sup | ervised | Legal Work Experience |
| LA | 245 | Supervised Legal Work Experience ⁵ 8 |
| | | Total |

Specialty Courses⁶

| GBUS | 204 | Introduction to Law |
|------|-----|--|
| LA | 218 | Employment Law |
| LA | 219 | The Criminal Process |
| LA | 220 | Torts |
| LA | 225 | Trial Preparation and Procedures I |
| LA | 227 | Trial Preparation and Procedures II |
| LA | 230 | Insurance Law for Legal Assistants |
| LA | 240 | Special Issues Seminar ⁷ 1-10 |
| LA | 285 | Legal Office Internship ⁸ |
| | | Total24 |

62-67 credits (depending on the student's choice of math) with a grade of 2.0 or higher in each class (including prerequisites) are required for a certificate.

Prerequisites and substitutions for courses may be made and/or waived by the program coordinator.

Students must complete a minimum of 2 credits each in math, social science or humanities.

- ¹ See program coordinator for an additional list of courses.
- ² Only needed if the student chooses GBUS 104 as his/her math requirement. (Not required if MATH 111 or higher is chosen for the math requirement.)
- ³ Prerequisite is ENG 101.
- ⁴ Prerequisites are LSEC 239 or 249 and a college-level computer course recommended to be selected from the BT, CIS or LSEC departments' offerings.
- ⁵ Students must complete 8 credits.
- ⁶ Prerequisites for all Legal Specialty Courses: LA 100, 102, 110.
- ⁷ 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.
- ⁸ Maximum of 3 credits of internship may be applied toward this degree.

LEGAL RECEPTIONIST

Certificate: SCC

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 support professional field.

First Quarter ВТ 090 Basic Grammar for Business II OR

| BT | 109 | Business Communications 5 |
|-------------|-------|---|
| BT | 102 | Document Processing 5 |
| BT | 151 | Business Student Preparation |
| LSEC | 236 | Legal Terminology |
| | | Total20 |
| Second | l Qua | rter |
| BT | 165 | Word Processing |
| CATT | 102 | Introduction to Outlook |
| LSEC | 237 | Legal Terminology |
| LSEC | 239 | Legal Formatting ² |
| | | Total17.5 |
| Third C | Quart | er |
| BT | 231 | Office Procedures ¹ |
| GBUS | 103 | Basic Business Math and Electronic Calculators OR |
| GBUS | 104 | Business Mathematics |
| LSEC | 216 | Legal Office Procedures |
| LSEC | 285 | Legal Office Internship |
| | | Total 18 |

55.5 credits, with a minimum of 2.0 grade in each class, are required for a certificate.

- ¹ This course may be substituted with any related course, a combination of courses, or prior office experience approved by the program coordinator.
- ² Prerequisites for enrollment in this class are keyboarding speed of 40 wpm and BT 165 and 109 with a grade of 2.0 or better, or permission of the program coordinator.

LIBRARY TECHNICIAN

A.A.S. Degree: SFCC

The library technician program is a two-year associate in applied science degree program that prepares students for careers as paraprofessionals in the library field. Students are trained to work in any department in any type of library. While routines particular to each library will be learned on the job, the program gives students exposure to a broad range of responsibilities common to most libraries.

Students can enter the program in any quarter to take electives. Electives can be taken online or in a traditional classroom. Electives are required from computer skills, computation skills, communication skills, and leadership/human relations skills classes.

The recommended library course sequence begins with the fall quarter and library skills courses must be taken in sequence in order to complete the degree in six quarters. Library skills classes are hybrid classes; students engage in online learning activities and are required to attend seminar sessions for lecture and lab training sessions.

FIRST YEAR

| First Q | First Quarter | | |
|----------------|---------------|--|--|
| LMLIB LMLIB | 100 115 | Introduction to Library Organizations and Careers 3 Introduction to Library Organizational Systems 5 Computer Skills Electives 1 | |
| Second | Qua | rter | |
| LMLIB LMLIB | 116 125 | Introduction to Circulation Systems and Services 5 School Libraries and Media Centers 5 Computer Skills Electives 3 Communication Skills Elective 5 Total | |
| Third Q | uart | er | |
| LMLIB | 117 | Access Services, Customer Service and Collection Maintenance | |
| LMLIB | 135 | Children's Literature and Library Services.5Computer Skills Electives13Communication Skills Elective25Total18 | |
| | | | |
| SECON | | | |
| Fourth | - | | |
| LMLIB | 210 | Technical Services I: Acquisitions and Materials Processing | |
| Fifth Q | uarte | r | |
| LMLIB | 220 | Technical Services II: Cataloging5Leadership Skills Elective 4 3-5Other Electives of Student's Choice 5 5-7Total13-17 | |
| Sixth Q | uart | er | |
| LMLIB LMLIB | 222 225 | Reference Services and Outreach. 5 Supervised Work Experience. 10 Total 15 | |
| 92-98 cr | edits | are required for an A.A.S. degree. | |
| | | ng courses are approved electives. | |

Substitutions can be made with approval from instructor. Please consult the Library Technician instructor for online options for electives.

¹ Computer Skills- 18 to 22 credits are required. 7-17 credits must come from Group A and 1-9 credits must come from Group B.

Group A-Software and Internet Literacy

| CAPPS 102 | Introduction to Office |
|-----------|------------------------|
| CAPPS 104 | <i>Windows</i> |
| CAPPS 110 | <i>Word</i> |
| CAPPS 112 | Excel |
| CAPPS 114 | Access |
| CAPPS 116 | <i>PowerPoint</i> |
| CAPPS 118 | <i>WordPerfect</i> |
| | |

| | CAPPS | 120 | Outlook | |
|----------------|--------------|--------|--|-------|
| | GENST | Г 108 | Learning for the 21st Century | 5 |
| | GENST | Г115 | Internet Issues | |
| | IS | 160 | Internet Fundamentals | 1 |
| Gr | oup B-H | Hardu | vare and IT Literacy | |
| | BT | 100 | Keyboarding for Computers OR | |
| | BT | 101 | Keyboarding | . 1-5 |
| | BT | 250 | Information Technology | 5 |
| | IS | 120 | Business Computer Use | 3 |
| | IS | 142 | Hardware Fundamentals | 3 |
| | IS | 143 | Operating System Fundamentals | 2 |
| | IS | 144 | Programming Fundamentals | 3 |
| 2 (| Сотти | nicati | on Skills (Choose two courses) (10-11 credits) | |
| | BT | 231 | Office Procedures | 5 |
| | BT | 272 | Business Correspondence | 5 |
| | ENG | 101 | English Composition OR | |
| | BT | 107 | Business Communications AND | |
| | BT | 108 | Business Communications | . 5-6 |
| | ENG | 201 | Advanced English Composition | |
| | ENG | 205 | Technical Writing | 5 |
| 3 (| Comput | ation | Skills (Choose one course) (3-5 credits) | |
| | ACCT | 051 | Basic Accounting Procedures | |
| | GBUS | 102 | Math Skills for Business | |
| | GBUS | 103 | Basic Business Math and Electronic Calculators | 5 |
| | MATH | | Pre-Algebra | |
| 4 L | eadersh | ip Ski | ills/Human Relations (Choose one course) (3-5 crea | dits) |
| | GBUS | 105 | Principles of Leadership | |
| | GBUS | 280 | Human Relations in Business | |
| | HS | 136 | Improving Interpersonal Communication | |
| | MMGT | | Principles of Management | |
| | MMGT | | Human Resource Management | 5 |
| ⁵ 1 | Elective | | | |
| | ED | 202 | Survey of Education | |
| | ED | 204 | Introduction to Special Education | 5 |
| | <i>LMLIB</i> | 224 | Research Topics and Projects in Library Service | |
| | <i>LMLIB</i> | | Cooperative Education Seminar | |
| | <i>LMLIB</i> | | Cooperative Education Work Experience | . 1-8 |
| | Or othe | er com | puter skills electives | . 1-5 |
| | | | | |

MACHINIST/CNC TECHNOLOGY

A.A.S. Degree, Certificate: SCC

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 and procedures and quality control.

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

FIRST YEAR

| First Qu | First Quarter | | | | |
|--------------|---------------|---|--|--|--|
| APLED | 112 | Applied Mathematics ¹ | | | |
| MACH | 113 | Beginning Blueprint | | | |
| MACH | 114 | Introduction to Machine Shop I 5 | | | |
| MACH | 115 | Introduction to Machine Tools 5 | | | |
| MACH | 116 | Introduction to Machine Shop II 5 | | | |
| | | Total20 | | | |
| Second | Qua | rter | | | |
| CIS | 105 | Computer Fundamentals for Vocations I 2 | | | |
| ISFTY | 111 | Industrial First Aid | | | |
| MACH | 123 | Machine Tool Operations I 6 | | | |
| MACH | 124 | Blueprint II | | | |
| MACH | 125 | Machine Shop Math I | | | |
| MACH | 126 | Machine Tool Operations II | | | |
| | | Total | | | |
| | | | | | |

| inira Quarte | er |
|-----------------|--|
| APLED 121 | Applied Written Communication ¹ 4 |
| MACH 133 | Machine Tool Operations III |
| MACH 134 | Machine Shop Math II |
| MACH 135 | Blueprint III |
| MACH 136 | Machine Tool Operations IV |
| | Total |
| SECOND YE | AR |
| Fourth Quar | ter |
| AGGEN 157 | Arc Welding |
| APLED 123 | Leadership Skills for Business and Industry ¹ 3 |
| MACH 244 | Blueprint IV |
| MACH 247 | CNC Theory |
| MACH 248 | CNC Lab |
| MACH 262 | CNC Programming |
| | Total |
| Fifth Quarte | r |
| APLED 125 | Employment Preparation ¹ |
| MACH 249 | Quality Control |
| MACH 250 | CNC Production Theory 5 |
| MACH 251 | CNC Production Lab |
| MACH 254 | Blueprint V |
| | Total |
| Sixth Quarte | er |
| MACH 201 | Manufacturing Economics |
| MACH 202 | Manufacturing Resource Management |
| MACH 243 | Machine Tool Operations V ² 8 |
| MACH 246 | Machine Tool Operations VI ² |
| | Total |
| 120 credits are | e required for an A.A.S. degree. |
| | l Cartificata |

Machinist Certificate

This four-quarter evening machinist 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.

First Quarter

Third Ouarter

| MACH | 113 | Beginning Blueprint |
|---------|------|--|
| MACH | 114 | |
| MACH | 116 | Introduction to Machine Shop II 5 |
| | | Total12 |
| Second | Qua | rter |
| APLED | 121 | Applied Written Communication ¹ 4 |
| | | Machine Tool Operations I 6 |
| | | Blueprint II |
| | | Total 12 |
| Third Q | uart | er |
| APLED | 112 | Applied Mathematics ¹ |
| MACH | | |
| MACH | 135 | Blueprint III |
| | | Total 12 |
| Fourth | Quar | rter |
| MACH | 133 | Machine Tool Operations III ² |
| MACH | 136 | Machine Tool Operations IV ² |
| | | Total |
| | | |

50 credits are required for a machinist certificate.

- ¹ This related education requirement may be met by any course or combination of courses approved by the department dean.
- ² This course may be substituted with MACH 266 and 267 or 288 (no seminar).

CNC Certificate¹

This four-quarter CNC certificate evening program is designed for people currently in the machining industry or those who have completed the machinist certificate program. CNC theory, CNC programming and CNC application are integral elements of the program. Students must have the machinist certificate before obtaining a CNC certificate. Individual courses may be taken with permission of the instructor.

First Quarter

| CIS | 105 | Computer Fundamentals for Vocations I ² 5 | |
|----------------|-----|--|--|
| MACH | 244 | Blueprint IV | |
| | | CNC Theory | |
| | | Total | |
| Second Quarter | | | |
| MACH | 248 | CNC Lab | |

| MACH | 250 | CNC Production Theory |
|------|-----|-----------------------|
| | | Total |
| | | |

Third Quarter

| APLED | 123 | Leaderships Skills for Business and Industry ³ 3 |
|--------|----------------|---|
| APLED | 125 | Employment Preparation ¹ |
| | | CNC Production Lab |
| | | Total |
| Fourth | Fourth Quarter | |
| MACH | 243 | Machine Tool Operations V ⁴ 8 |
| MACH | 262 | CNC Programming ⁴ 6 |
| | | Total |

51 credits are required for a CNC certificate.

- ¹ The Machinist Certificate is required before students can obtain the CNC certificate due to related education requirements. Individual courses may be taken with permission of instructor.
- ² This course may be substituted with CIS 110.
- ³ This course may be substituted with any related course or a combination of courses approved by the instructional dean.
- ⁴ This course may be substituted with MACH 266 and 267 or 288 (no seminar).

MANAGEMENT

A.A.S. Degree, Certificate: SCC, SFCC

The challenge of management! It takes a special kind of person with a special knack to be a good business manager. Over 60 percent of the workforce in Spokane is employed in a distributive occupation. This creates a big demand for persons with training as middle managers or junior executives.

The management programs at SCC and SFCC are designed to give an individual on-the-job work experience while learning the basic principles of business management. Students are given credit for approved

Courses in the program include management, marketing, salesmanship, advertising and human relations. In addition to the academic courses, there is opportunity for team work and leadership experience through participation in Delta Epsilon Chi, an affiliate of Distributive Education Clubs of America. All of the 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 at SCC only. Students must also have a 2.0 cumulative minimum grade point average on all required courses in the program at SCC only.

A.A.S. Degree-SCC Outline

ACCT 151 College Associating Lor agriculant

Basic Business Core

| ACCI | 151 | College Accounting I or equivalent |
|-------------|-----|--|
| CIS | 110 | Introduction to Computer Applications ² |
| ECON | 100 | Fundamentals of Economics or higher 5 |
| ENG | 101 | English Composition |
| ENG | 109 | Speech Composition AND |
| SPCH | 101 | Introduction to Speech Communication OR |
| SPCH | 201 | Speech for Business and Professions 3-5 |
| ENG | 201 | Advanced English Composition OR |
| ENG | 205 | Technical Writing OR |
| BT | 272 | Business Correspondence ³ 5 |
| GBUS | 101 | Introduction to Business |
| | | |

| GBUS 104 Business Mathematics ⁴ 5 GBUS 280 Human Relations in Business 5 MMGT 100 Supervised Volunteer Experience 1 MMGT 101 Principles of Management 5 Total 49-51 Management Option Requirements CATT 241 Project Management Applications 2.5 GBUS 205 Business Law 5 MMGT 211 Marketing 5 MMGT 211 Human Resource Management 5 MMGT 242 Project Management 2.5 MMGT 288 Cooperative Education Work Experience (No Seminar) 9 Total 32 RECOMMENDED BUSINESS ELECTIVES: (CHOOSE FROM THE FOLLOWING LI | | | |
|--|----------|-------|--|
| GBUS 280 Human Relations in Business. 5 MMGT 100 Supervised Volunteer Experience 1 MMGT 101 Principles of Management 5 Total 49-51 Management Option Requirements CATT 241 Project Management Applications 2.5 GBUS 205 Business Law 5 MMGT 231 Human Resource Management 5 MMGT 242 Project Management 2.5 MMGT 242 Project Management 3 MMGT 242 Project Management 3 MAGT 242 Project Management 3 ACCT 152 College Accounting II 5 ECON 201 Introduction to Macroeconomics 5 ECON 202 I | CRUS | 104 | Business Mathematics4 |
| MMGT 100 Supervised Volunteer Experience 1 MMGT 101 Principles of Management 5 Total 49-51 Management Option Requirements CATT 241 Project Management Applications 2.5 GBUS 205 Business Law 5 MMGT 211 Marketing 5 MMGT 231 Human Resource Management 2.5 MMGT 242 Project Management 2.5 MMGT 266 Cooperative Education Seminar 3 MMGT 267 Cooperative Education Work Experience OR MMGT 288 Cooperative Education Work Experience (No Seminar) 9 Total 32 RECOMMENDED BUSINESS ELECTIVES: (CHOOSE FROM THE FOLLOWING LIST) ⁵ ACCT 152 College Accounting II 5 FOLLOWING LIST) ⁵ ACCT 152 College Accounting II 5 FOLLOWING LIST) ⁵ ACCT | | | |
| MMGT 101 Principles of Management | | | |
| Management | | | Principles of Management |
| Management Option Requirements CATT 241 Project Management Applications | MIMGI | 101 | |
| CATT 241 Project Management Applications | | | |
| GBUS 205 Business Law | | | • |
| MMGT 211 Marketing 5 MMGT 231 Human Resource Management 5 MMGT 242 Project Management 2.5 MMGT 266 Cooperative Education Seminar 3 MMGT 267 Cooperative Education Work Experience OR MMGT 288 Cooperative Education Work Experience (No Seminar) 9 Total 32 RECOMMENDED BUSINESS ELECTIVES: (CHOOSE FROM THE FOLLOWING LIST)* ACCT 152 College Accounting II 5 ECON 201 Introduction to Macroeconomics 5 ECON 201 Introduction to Microeconomics 5 ECON 202 Introduction to Electronic Calculators 1 GBUS 100 Money Management 3 GBUS 101 International Business 5 GBUS 101 International Business 5 GBUS 204 Introduction to Law 5 GBUS 217 Business Statistics 5 | | | |
| MMGT 242 Project Management | | | |
| MMGT 242 Project Management | | | |
| MMGT 266 Cooperative Education Seminar | | | Human Resource Management |
| MMGT 288 Cooperative Education Work Experience OR MMGT 288 Cooperative Education Work Experience (No Seminar) 9 Total | | | |
| RECOMMENDED BUSINESS ELECTIVES: (CHOOSE FROM THE FOLLOWING LIST)5 ACCT 152 College Accounting II | | | |
| RECOMMENDED BUSINESS ELECTIVES: (CHOOSE FROM THE FOLLOWING LIST)s ACCT 152 College Accounting II | | | |
| RECOMMENDED BUSINESS ELECTIVES: (CHOOSE FROM THE FOLLOWING LIST) ⁵ ACCT 152 College Accounting II | MMG1 | 288 | |
| FOLLOWING LIST)* ACCT 152 College Accounting II | | | |
| ACCT 152 College Accounting II | | | |
| ECON 201 Introduction to Macroeconomics 5 ECON 202 Introduction to Microeconomics 5 GBUS 100 Money Management 3 GBUS 107 Introduction to Electronic Calculators 1 GBUS 120 International Business 5 GBUS 204 Introduction to Law 5 GBUS 217 Business Statistics 5 MMGT 181 Leadership Training-DEC OR MMGT 182 Leadership Training-DEC OR MMGT 191 Leadership Training-DEC OR MMGT 192 Leadership Training-DEC OR MMGT 193 Leadership Training-DEC OR MMGT 193 Leadership Training-DEC OR MMGT 205 Small Business Planning 5 MMGT 212 Retailing 5 MMGT 214 Fundamentals of Advertising 5 MMGT 245 Introduction to Consulting 2 General Elective 5 Total 9 90-92 credits are required for an A.A.S. degree. Certificate First Quarter GBUS 101 Introduction to Business 5 | | | , |
| ECON 202 Introduction to Microeconomics 5 GBUS 100 Money Management 3 GBUS 107 Introduction to Electronic Calculators 1 GBUS 120 International Business 5 GBUS 204 Introduction to Law 5 GBUS 217 Business Statistics 5 MMGT 181 Leadership Training-DEC OR MMGT 182 Leadership Training-DEC OR MMGT 183 Leadership Training-DEC OR MMGT 191 Leadership Training-DEC OR MMGT 192 Leadership Training-DEC OR MMGT 193 Leadership Training-DEC OR MMGT 193 Leadership Training-DEC OR MMGT 205 Small Business Planning 5 MMGT 212 Retailing 5 MMGT 218 Fundamentals of Advertising 5 MMGT 218 Fundamentals of Advertising 5 MMGT 245 Introduction to Consulting 2 General Elective 5 Total 9 90-92 credits are required for an A.A.S. degree. Certificate First Quarter GBUS 101 Introduction to Business 5 | | | |
| GBUS 100 Money Management 3 GBUS 107 Introduction to Electronic Calculators 1 GBUS 120 International Business 5 GBUS 204 Introduction to Law 5 GBUS 217 Business Statistics 5 MMGT 181 Leadership Training-DEC OR MMGT 182 Leadership Training-DEC OR MMGT 183 Leadership Training-DEC OR MMGT 191 Leadership Training-DEC OR MMGT 192 Leadership Training-DEC OR MMGT 193 Leadership Training-DEC OR MMGT 205 Small Business Planning 5 MMGT 212 Retailing 5 MMGT 218 Fundamentals of Advertising 5 MMGT 245 Introduction to Consulting 2 General Elective 5 Total 9 90-92 credits are required for an A.A.S. degree. Certificate First Quarter GBUS 101 Introduction to Business 5 | | | |
| GBUS 107 Introduction to Electronic Calculators 1 GBUS 120 International Business 5 GBUS 204 Introduction to Law 5 GBUS 217 Business Statistics 5 MMGT 181 Leadership Training-DEC OR MMGT 182 Leadership Training-DEC OR MMGT 191 Leadership Training-DEC OR MMGT 192 Leadership Training-DEC OR MMGT 193 Leadership Training-DEC OR MMGT 193 Leadership Training-DEC OR MMGT 205 Small Business Planning 5 MMGT 212 Retailing 5 MMGT 218 Fundamentals of Advertising 5 MMGT 245 Introduction to Consulting 2 General Elective 5 Total 9 90-92 credits are required for an A.A.S. degree. Certificate First Quarter GBUS 101 Introduction to Business 5 | | | |
| GBUS 120 International Business 5 GBUS 204 Introduction to Law 5 GBUS 217 Business Statistics 5 MMGT 181 Leadership Training-DEC OR MMGT 182 Leadership Training-DEC OR MMGT 183 Leadership Training-DEC OR MMGT 191 Leadership Training-DEC OR MMGT 192 Leadership Training-DEC OR MMGT 193 Leadership Training-DEC OR MMGT 205 Small Business Planning 5 MMGT 212 Retailing 5 MMGT 218 Fundamentals of Advertising 5 MMGT 245 Introduction to Consulting 2 General Elective 5 Total 9 90-92 credits are required for an A.A.S. degree. Certificate First Quarter GBUS 101 Introduction to Business 5 | | | |
| GBUS 204 Introduction to Law. 5 GBUS 217 Business Statistics . 5 MMGT 181 Leadership Training-DEC OR MMGT 182 Leadership Training-DEC OR MMGT 183 Leadership Training-DEC OR MMGT 191 Leadership Training-DEC OR MMGT 192 Leadership Training-DEC OR MMGT 193 Leadership Training-DEC OR MMGT 210 Small Business Planning . 5 MMGT 212 Retailing . 5 MMGT 218 Fundamentals of Advertising . 5 MMGT 245 Introduction to Consulting . 2 General Elective . 5 Total 9 90-92 credits are required for an A.A.S. degree. Certificate First Quarter GBUS 101 Introduction to Business . 5 | | | |
| GBUS 217 Business Statistics | | | |
| MMGT 181 Leadership Training-DEC OR MMGT 182 Leadership Training-DEC OR MMGT 183 Leadership Training-DEC OR MMGT 191 Leadership Training-DEC OR MMGT 192 Leadership Training-DEC OR MMGT 193 Leadership Training-DEC | | | |
| MMGT 182 Leadership Training-DEC OR MMGT 183 Leadership Training-DEC OR MMGT 191 Leadership Training-DEC OR MMGT 192 Leadership Training-DEC OR MMGT 193 Leadership Training-DEC | | | |
| MMGT 183 Leadership Training-DEC OR MMGT 191 Leadership Training-DEC OR MMGT 192 Leadership Training-DEC OR MMGT 193 Leadership Training-DEC . 1 MMGT 205 Small Business Planning . 5 MMGT 212 Retailing . 5 MMGT 218 Fundamentals of Advertising . 5 MMGT 245 Introduction to Consulting . 2 General Elective . 5 Total . 9 90-92 credits are required for an A.A.S. degree. Certificate First Quarter GBUS 101 Introduction to Business . 5 | | | |
| MMGT 191 Leadership Training-DEC OR MMGT 192 Leadership Training-DEC OR MMGT 193 Leadership Training-DEC 1 MMGT 205 Small Business Planning 5 MMGT 212 Retailing 5 MMGT 218 Fundamentals of Advertising 5 MMGT 245 Introduction to Consulting 2 General Elective 5 Total 9 90-92 credits are required for an A.A.S. degree. Certificate First Quarter GBUS 101 Introduction to Business 5 | | | |
| MMGT 192 Leadership Training-DEC OR MMGT 193 Leadership Training-DEC 1 MMGT 205 Small Business Planning 5 MMGT 212 Retailing 5 MMGT 218 Fundamentals of Advertising 5 MMGT 245 Introduction to Consulting 2 General Elective 5 Total 9 90-92 credits are required for an A.A.S. degree. Certificate First Quarter GBUS 101 Introduction to Business 5 | | | |
| MMGT 193 Leadership Training-DEC 1 MMGT 205 Small Business Planning 5 MMGT 212 Retailing 5 MMGT 218 Fundamentals of Advertising 5 MMGT 245 Introduction to Consulting 2 General Elective 5 Total 9 90-92 credits are required for an A.A.S. degree. Certificate First Quarter GBUS 101 Introduction to Business 5 | | | |
| MMGT 205 Small Business Planning. 5 MMGT 212 Retailing . 5 MMGT 218 Fundamentals of Advertising . 5 MMGT 245 Introduction to Consulting . 2 General Elective . 5 Total . 9 90-92 credits are required for an A.A.S. degree. Certificate First Quarter GBUS 101 Introduction to Business . 5 | | | |
| MMGT 212 Retailing | MMGT | 205 | Small Business Planning |
| MMGT 218 Fundamentals of Advertising 5 MMGT 245 Introduction to Consulting 2 General Elective 5 Total 9 90-92 credits are required for an A.A.S. degree. Certificate First Quarter GBUS 101 Introduction to Business 5 | MMGT | 212 | Retailing |
| MMGT 245 Introduction to Consulting | MMGT | 218 | |
| General Elective 5 Total 9 90-92 credits are required for an A.A.S. degree. Certificate First Quarter GBUS 101 Introduction to Business 5 | MMGT | 245 | |
| 90-92 credits are required for an A.A.S. degree. Certificate First Quarter GBUS 101 Introduction to Business | | | |
| Certificate First Quarter GBUS 101 Introduction to Business | | | Total9 |
| First Quarter GBUS 101 Introduction to Business | 90-92 cr | edits | are required for an A.A.S. degree. |
| First Quarter GBUS 101 Introduction to Business | Certif | icat | e |
| GBUS 101 Introduction to Business | _ | | |
| | • | | |
| | GBUS | 103 | Basic Business Math and Electronic Calculators 5 |
| MMGT 266 Cooperative Education Seminar ⁶ 1-2 | | | |

| | | Electives Group A, B, or C | |
|------|-----|--|-----|
| MMGT | 266 | Cooperative Education Seminar ⁶ | 1-2 |
| GBUS | 103 | Basic Business Math and Electronic Calculators | . 5 |
| GBUS | 101 | Introduction to Business | . 5 |

Second Quarter

| | | Total | 16_17 |
|------|-----|--|-------|
| MMGT | 266 | Cooperative Education Seminar ⁶ | 1-2 |
| SPCH | 101 | Introduction to Speech Communication | 5 |
| ENG | 109 | Speech Composition AND | |
| CIS | 110 | Introduction to Computer Applications ² | 5 |
| ACCT | 151 | College Accounting I or equivalent | 5 |

Third Quarter

| BT | 101 | Keyboarding OR |
|----------|-------|--|
| | | Business Elective |
| BT | 272 | Business Correspondence ³ OR |
| ENG | 101 | English Composition |
| MMGT | 101 | Principles of Management |
| MMGT | 266 | Cooperative Education Seminar ⁶ 1-2 |
| | | Electives Group A, B, or C |
| | | Total 19-22 |
| 51-56 cr | edits | are required for a certificate |

GROUP A-MARKETING:

| CATT | 241 | Project Management Applications | .2 | 5 |
|------|-----|---------------------------------|----|---|
| | | Marketing | | |
| | | Fundamentals of Advertising | | |
| | | Project Management | | |

| GROUP B-MANAGEMENT: BT 260 Administrative Office Management | May substitute ENG 101 for BT 107 and 108. May substitute GBUS 217. |
|---|---|
| CATT 120 Microsoft Word I. 2 GBUS 205 Business Law 5 | May substitute GBUS 105 for MMGT 181, 182, 183. May substitute ACCT 103 and 104. |
| MMGT205Small Business Planning5MMGT231Human Resource Management5 | Certificate |
| GROUP C-FINANCE: | First Quarter |
| ACCT 152 College Accounting II | GBUS 101 Introduction to Business |
| 3 BT 109 is a prerequisite. | Total |
| 4 GBUS 103 or proficiency test is required. | Second Quarter |
| Other business courses may be selected with approval of the department adviser. Additional credits can be earned by concurrent enrollment in a work experience position for 1 credit or in an approved cooperative education work experience position for 3 credits when enrolled in a mid-management seminar. Students will be allowed to take either cooperative education seminar and/or supervised volunteer experience. | ACCT 101 Principles of Accounting¹ 5 ENG 109 Speech Composition AND SPCH 101 Introduction to Speech Communication 5 GBUS 108 eBusiness 2 MMGT 112 Mid-Management Seminar 1 Electives Group A, B or C 4 Total 17 |
| A.A.S. Degree-SFCC Program Outline | Third Quarter |
| FIRST YEAR | BT 272 Business Correspondence |
| First Quarter BT 107 Business Communications ¹ | MMGT 101 Principles of Management 5 Elective Group A, B or C 5 Elective Group D 1 Total 16 |
| MMGT 181 Leadership Training-DEC ³ | 50 credits are required for a certificate. |
| Total15 | CERTIFICATE ELECTIVES MAY BE CHOSEN FROM: |
| Second Quarter | GROUP A-MARKETING: |
| ACCT 101 Principles of Accounting ⁴ | FMDSE 150 Principles of Retail Merchandising5 |
| BT 108 Business Communications ¹ | FMDSE 224 Principles of Retail Promotion |
| GBUS 108 eBusiness | MMGT 211 Marketing |
| MMGT 111 Mid-Management Seminar OR MMGT 112 Mid-Management Seminar OR | MMGT 220 Professional Sales |
| MMGT 113 Mid-Management Seminar OR | GROUP B-MANAGEMENT |
| MMGT 267 Cooperative Education Work Experience 2 | BT 255 Business Productivity Tools |
| MMGT 182 Leadership Training-DEC ³ | BT 260 Administrative Office Management. 5 GBUS 280 Human Relations in Business . 5 MMCT 231 Human Resource Management 5 |
| | MMGT 231 Human Resource Management |
| Third Quarter BT 272 Business Correspondence | GROUP C-FINANCE: |
| GBUS 280 Human Relations in Business | CRMGT 110Introduction to Finance3CRMGT 150Introduction to Investments2GBUS 100Money Management3 |
| Total | GROUP D-COMPUTER ELECTIVES: |
| SECOND YEAR | CAPPS 102 Introduction to Office |
| Fourth Quarter ECON 100 Fundamentals of Economics | CAPSS 112 Excel 1 CAPPS 114 Access 1 |
| ENG 100 Fundamentals of Economics | CAPPS 114 Access |
| SPCH 101 Introduction to Speech Communication | ¹ ACCT 103 and 104 may substitute for ACCT 101. |
| Total15 | MANICURIST |
| Fifth Quarter | |
| CRMGT 140 Financial Statement Analysis | Certificate: SCC |
| MMGT 223 Customer Service | Students enrolling in the manicuring certificate program will receive |
| MMGT 231 Human Resource Management | 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 |
| Sixth Quarter | successful completion of the coursework, the student will be prepared |
| CRMGT 110 Introduction to Finance | to take the Washington State Examination in Manicuring. First Quarter |
| Business Electives | COS 113 Manicuring Concepts I |
| Total | COS 114 Manicuring Applications I |
| 90 credits are required for an A.A.S. degree. Keyboarding proficiency of 35 wpm expected. | COS 119 Advanced Manicuring Concepts 1 ISFTY 111 Industrial First Aid 2 Total 17 |

Second Quarter

| | | Total | |
|-----|-----|------------------------------------|--|
| COS | 129 | Advanced Manicuring Applications 2 | |
| COS | 116 | Manicuring Applications II | |
| COS | 115 | Manicuring Concepts II | |

33 credits are required for a certificate.

MANUFACTURING TECHNOLOGY

A.A.S. Degree: SCC

The manufacturing technology program prepares students to transfer to Eastern Washington University's mechanical engineering technology program or to work in large and small manufacturing firms.

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 techniques, but also get "hands-on" practical experience by learning fabrication processes used in industry. Coursework includes shop practice techniques of welding, machining, shop safety and assembly techniques. The course of study includes such basic disciplines of engineering technology as math, physics, statics, strength of materials and materials science.

FIRST YEAR

First Quarter APLED 121 Applied Written Communication¹......4 MET MET Computer Fundamentals for Engineering...... 5 MET MFT **Second Ouarter** APLED 123 Leadership Skills for Business and Industry¹............ 3 MET MET 124 Technical Engineering Graphics II 4 MET MET Computer Aided Design Fundamentals 5 **Third Quarter** APLED 125 MET MET MET 137 MET 139 **SECOND YEAR Fourth Quarter** MET MET Engineering Design Fundamentals 5 MET MET 245 247 MET **Fifth Quarter** MET 250 MET MET 253 MET Approved Elective 5 **Sixth Quarter** 261 Project Design 5 MET MET Electrical Theory for Engineering 5 MET

114 are credits required for an A.A.S. degree.

APPROVED ELECTIVES:

Choose a maximum of one from each group or all math or all physics series for a maximum of 15 credits.

| HUMAN101 | | Introduction to Humanities 5 |
|-----------|-------|--|
| MATH | 111 | Pre-Calculus I |
| MATH | 202 | Survey of Calculus |
| PHIL | 101 | Introduction to Philosophy |
| PHIL | 201 | Introduction to Logic |
| PHIL | 210 | Ethics |
| PHYS | 101 | General Physics 5 |
| PHYS | 102 | General Physics 5 |
| PHYS | 103 | General Physics 5 |
| SOC | 101 | Introduction to Sociology 5 |
| SOC | 221 | Race and Ethnic Relations |
| SPCH | 121 | Job Communication Skills |
| SPCH | 127 | Leadership Development 5 |
| For the r | nanuf | acturing technology degree, all electives must be approved |

d by a mechanical engineering technology instructor.

- ¹ This related education requirement may be met by any course or combination of courses approved by the instructional dean.
- ² May be substituted with approved elective with permission of MET instructor.

MARKETING

A.A.S. Degree: SCC, SFCC

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 project management. Students are also required to gain work experience as part of the program. There is opportunity for teamwork and leadership experience through participation in Delta Epsilon Chi, an affiliate of Distributive Education Clubs of America. 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 at SCC only. Students must also have a 2.0 cumulative minimum grade point average on all required courses in the program at SCC only.

A.A.S. Degree-SCC Outline

Basic Business Core

| ACCT | 151 | College Accounting I or equivalent ¹ |
|-------------|-----|--|
| CIS | 110 | Introduction to Computer Applications ³ |
| ECON | 100 | Fundamentals of Economics or higher 5 |
| ENG | 101 | English Composition |
| ENG | 109 | Speech Composition AND |
| SPCH | 101 | Introduction to Speech Communication OR |
| SPCH | 201 | Speech for Business and Professions 3-5 |
| ENG | 201 | Advanced English Composition OR |
| ENG | 205 | Technical Writing OR |
| BT | 272 | Business Correspondence ² 5 |
| GBUS | 101 | Introduction to Business 5 |
| GBUS | 104 | Business Mathematics ⁴ 5 |
| GBUS | 280 | Human Relations in Business 5 |
| MMGT | 100 | Supervised Volunteer Experience |
| MMGT | 101 | Principles of Management 5 |
| | | Total |

Marketing Ontion Paguiroments

| Maire | illig C | phion requirements |
|-------|---------|--|
| CATT | 241 | Project Management Applications |
| GBUS | 205 | Business Law 5 |
| MMGT | 211 | Marketing 5 |
| MMGT | 212 | Retailing |
| MMGT | 218 | Fundamentals of Advertising 5 |
| MMGT | 242 | Project Management |
| | | Cooperative Education Seminar |
| MMGT | 267 | Cooperative Education Work Experience OR |
| MMGT | 288 | Cooperative Education Work Experience (No Seminar) 9 |
| | | Total 37 |

RECOMMENDED BUSINESS ELECTIVES: (CHOOSE FROM THE FOLLOWING LIST)⁵ GBUS 100 Money Management

| GDUS | 100 | Money Management |
|------|-----|----------------------------|
| GBUS | 120 | International Business |
| GBUS | 204 | Introduction to Law |
| MMGT | 181 | Leadership Training-DEC OR |
| MMGT | 182 | Leadership Training-DEC OR |
| MMGT | 183 | Leadership Training-DEC OR |
| MMGT | 191 | Leadership Training-DEC OR |
| MMGT | 192 | Leadership Training-DEC OR |
| MMGT | 193 | Leadership Training-DEC |
| | | General Elective |
| | | Total |
| | | |

90-92 credits are required for an A.A.S. degree.

- ¹ ACCT 101 may be taken in place of ACCT 151.
- ² BT 109 is a prerequisite.
- ³ Keyboarding skills required.
- ⁴ GBUS 103 or proficiency test is required.
- ⁵ Other business courses may be selected with approval of the department

A.A.S. Degree-SFCC Program Outline

| A.A.S. Degree-SPCC Program Outline | | | |
|------------------------------------|------------|---|--|
| FIRST Y | | | |
| First Qu | | | |
| ACCT BT | 101 107 | Principles of Accounting ¹ | |
| GBUS | 107 | Introduction to Business | |
| GBUS | 108 | e-Business | |
| GDCD | 100 | Computer Elective (Information Systems) | |
| | | Total | |
| Second | Опа | | |
| BT | 108 | Business Communications ² | |
| CRMGT | | Financial Statement Analysis | |
| GBUS | 103 | Basic Business Math and Electronic Calculators OR | |
| GBUS | 217 | Business Statistics | |
| GBUS | 205 | Business Law | |
| MMGT | 111 | Mid-Management Seminar OR | |
| MMGT | 112 | Mid-Management Seminar OR | |
| MMGT | 113 | Mid-Management Seminar OR | |
| MMGT | 267 | Cooperative Education Work Experience | |
| | | Total | |
| Third Q | uart | er | |
| BT | 272 | Business Correspondence 5 | |
| CRMGT | 110 | Introduction to Finance | |
| GBUS | 280 | Human Relations in Business ³ 5 | |
| MMGT | 211 | Marketing 5 | |
| | | Total 18 | |
| SECON | D YE | AR | |
| Fourth | Quai | rter | |
| ENG | 109 | Speech Composition AND | |
| SPCH | 101 | Introduction to Speech Communication 5 | |
| FMDSE | 150 | Principles of Retail Merchandising | |
| FMDSE | 224 | Principles of Retail Promotion 5 | |
| | | Total | |
| Fifth Q | uarte | | |
| ECON | 100 | Fundamentals of Economics ⁴ 5 | |
| GBUS | 140 | International Marketing | |
| MMGT | 181 | Leadership Training-DEC ⁵ OR | |
| MMGT | 182 | Leadership Training-DEC ⁵ OR | |
| MMGT | 183 | Leadership Training-DEC ⁵ | |
| MMGT | 220 | Professional Sales | |
| | | Total | |
| Sixth Q | uart | | |
| MMGT | 101 | Principles of Management | |
| MMGT | 223 | Customer Service | |
| | | Computer Electives (Information Systems) | |
| | | Total 10 | |
| 91 credi | ts are | required for an A.A.S. degree. | |

Keyboarding proficiency of 35 WPM required.

- ¹ May substitute ACCT 103 AND ACCT 104.
- ² May substitute ENG 101 for BT 107 AND 108.
- ³ May substitute HS 136.
- ⁴ May substitute ECON 201.
- ⁵ May substitute GBUS 105 for MMGT 181, 182, 183.

MASSAGE THERAPY

A.A.S. Degree, Certificate: SCC

Massage therapists provide relief and improved health and well-being to clients through the application of manual techniques for manipulating skin, muscles and connective tissues.

Massage safety, client counseling, practice management, applicable regulations and professional standards and ethics are presented.

Students must earn a grade of 2.0 or higher in each class in order to proceed to the next quarter.

The massage program begins in summer quarter.

Program Prerequisites:

- Washington State Patrol Background Check
- Ability to lift 50 pounds
- Computer literacy or CIS 110
- Appropriate scores in one of the following tests: ASSET or Compass

Admission Prerequisites:

Any transfer courses must be from accredited educational institutions, and must have been taken within the last five years, with a grade of 2.0 or better.

FIRST YEAR

| First Q | uarte | r |
|--------------|------------|--|
| GBUS | 102 | Math Skills for Business |
| HED | 108 | Human Anatomy 5 |
| MASS | 110 | Introduction to Massage Therapy |
| | | Total |
| Second | l Qua | rter |
| HED | 125 | Medical Terminology 5 |
| ISFTY | 111 | Industrial First Aid |
| MASS | 120 | Massage Technique I 4 |
| MASS | 122 | Body Mechanics I |
| MASS | 124 | Kinesiology I |
| MASS | 126 | Hydrotherapy I |
| SPCH SURG | 102 105 | Interpersonal Communication |
| SUKG | 105 | Total21 |
| Thind o | | |
| Third C | - | |
| ENG | 101 | English Composition |
| HED HED | 109 132 | Human Physiology and Disease5Ethics and Professionalism in Health2 |
| MASS | 130 | Massage Technique II |
| MASS | 132 | Body Mechanics II |
| MASS | 134 | Kinesiology II |
| MASS | 136 | Hydrotherapy II |
| MASS | 138 | Student Clinic I |
| | | Total20 |
| Fourth | Quai | rter |
| MASS | 140 | Massage Technique III |
| MASS | 142 | Anatomy/Physiology/Pathology5 |
| MASS | 144 | Business Practices for the Massage Therapist 5 |
| MASS | 146 | Seminar |
| MASS | 148 | Student Clinic II |
| | | Total |
| 71 credi | ts are | required for a certificate. |
| A.A.S | . De | gree Option |
| BIOL | 101 | General Biology |
| CHEM | 161 | General Chemistry for Health Sciences 5 |
| ENG | 109 | Speech Composition AND |

SPCH 101 Introduction to Speech Communication 5

| PSYCH 101 | Introduction to Psychology |
|-----------|-----------------------------|
| | Introduction to Sociology 5 |
| | Math/Science Elective |
| | Communications OR |
| | Humanities Electives |
| | Social Science Elective |
| | Total |

116 credits are required for an AAS degree and 71 credits are required for a certificate.

Note: All electives must be numbered 100 or above.

MECHANICAL ENGINEERING **TECHNOLOGY**

A.A.S. Degree: SCC

The mechanical engineering technology program prepares students for 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 with this degree may also transfer to Eastern Washington University's mechanical engineering technology B.A. degree program.

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, engineering competitions, and by learning fabrication processes used in industry. Coursework includes shop practice techniques, shop safety as well as design and assembly techniques. The course of study includes such basic disciplines of engineering technology as math, physics, statics, and materials science.

FIRST YEAR

| First Qu | uarte | r' |
|----------|-------|--|
| APLED | 112 | Applied Mathematics ^{1, 2} 5 |
| APLED | 121 | Applied Written Communication ¹ 4 |
| MET | 101 | Introduction to Engineering |
| MET | 105 | Basic Blueprint Reading |
| MET | 114 | Engineering Graphics 1 |
| | | Total |
| Second | Qua | rter |
| APLED | 123 | Leadership Skills for Business and Industry ¹ 3 |
| MET | 123 | Applied Technical Mathematics ³ |
| MET | 124 | Engineering Graphics 2 |
| MET | 127 | Manufacturing Processes |
| MET | 129 | Computer Aided Drafting |
| | | Total |
| Third Q | uart | er |
| APLED | 125 | Employment Preparation ¹ |
| MET | 132 | Engineering Graphics 3 |
| MET | 133 | Introductory Applied Physics ⁴ |
| MET | 137 | Applied Technical Mathematics II ³ |
| MET | 139 | Hydraulics/Pneumatics ⁴ |
| | | Total |
| SECON | D YE | AR |
| Fourth | Quar | rter |
| MET | 241 | CAD Solid Modeling |
| MET | 242 | Mechanical Design Fundamentals 4 |
| MET | 244 | Tolerancing Systems |
| MET | 245 | Applied Physics ⁴ |
| MET | 247 | Shop Practices |
| | | Total |
| Fifth Qu | uarte | r |
| MET | 250 | Strength of Materials |
| MET | 252 | Advanced CAD5 |
| MET | 253 | Materials Science |
| MET | 254 | Statics |

| MET | 255 | Technical Applications I ⁴ 4 |
|-------|-------|--|
| | | Total |
| Sixth | Quart | er |
| MET | 135 | Schematics |
| MET | 261 | Project Design 5 |
| MET | 262 | Electrical Theory for Engineering 5 |
| MET | 263 | Machine Controls |
| MET | 264 | Technical Applications II ⁴ 4 |
| | | Total |

115 credits are required for an A.A.S. degree.

- ¹ This related education requirement may be met by any course or combination of courses approved by the instructional dean.
- This course may be substituted with MET 115 if approved by the division dean.
- This course may be substituted with MATH 100 if offered with permission of the division dean.
- This course may be substituted with MET 266 and 267 or MET 288. Also, may be substituted for approved electives for students wanting to transfer to EWU's mechanical engineering technology B.A. degree.

MEDICAL ASSISTANT

A.A.S. Degree, 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 assisting 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.

Admission Requirements:

- Computer Skills
- CIS 110 or equivalent
- Appropriate scores in one of the following: ASSET or Compass

| FIRST | <u>YEAR</u> | |
|-------------|-------------|--|
| First Q | uarte | r |
| GBUS | 102 | Math Skills for Business |
| HED | 108 | Human Anatomy |
| MA | 101 | Administrative Medical Assistant I 5 |
| MA | 102 | Clinical Medical Assistant I |
| | | Total |
| Secon | d Qua | rter |
| ENG | 101 | English Composition |
| HED | 125 | Medical Terminology |
| MA | 111 | Administrative Medical Assistant II |
| MA | 112 | Clinical Medical Assistant II 5 |
| | | Total 18 |
| Third (| Quart | er |
| HED | 109 | Human Physiology and Disease5 |
| MA | 120 | Medical Assistant Coding and Reimbursement 3-5 |
| MA | 122 | Clinical Medical Assistant III 5 |
| MA | 125 | Ambulatory Care Setting Pharmacology 5 |
| | | Total 18-20 |

| Fourth | Quai | |
|---------|-------|--|
| MA | 131 | Practice Finances and Management |
| MA | 132 | Clinical Medical Assistant IV |
| MA | 141 | Medical Assistant Seminar |
| MA | 142 | Medical Assistant Externship |
| | | Total |
| SECON | D YE | AR |
| Fifth Q | uarte | r¹ |
| MMGT | 101 | Principles of Management |
| PSYCH | 101 | Introduction to Psychology |
| SOC | 101 | Introduction to Sociology OR |
| SOC | 240 | Social Problems |
| | | Total |
| Sixth Q | uarto | er¹ |
| ENG | 201 | Advanced English Composition |
| GBUS | 280 | Human Relations in Business |
| SPCH | 220 | Intercultural Communication |
| | | Total |
| Sevent | h Qua | |
| ACCT | 101 | Principles of Accounting |
| PSYCH | 210 | Developmental Psychology |
| SPCH | 102 | Interpersonal Communication |
| | | Total |
| Certif | icat | Δ |
| First Q | | |
| GBUS | 102 | Math Skills for Business |
| HED | 108 | Human Anatomy |
| MA | 101 | Administrative Medical Assistant I |
| MA | 102 | Clinical Medical Assistant I |
| | | Total |
| Second | Qua | rter |
| ENG | 101 | English Composition |
| HED | 125 | Medical Terminology |
| MA | 111 | Administrative Medical Assistant II |
| MA | 112 | Clinical Medical Assistant II |
| | | Total |
| Third Q | uart | |
| HED | 109 | 9 |
| MA | 120 | Medical Assistant Coding and Reimbursement 3-5 |
| MA | | Clinical Medical Assistant III |
| MA | 125 | Ambulatory Care Setting Pharmacology |
| | | Total 18-20 |
| Fourth | Quar | |
| MA | 131 | Practice Finances and Management |
| MA | 132 | Clinical Medical Assistant IV |
| MA | 141 | Medical Assistant Seminar |
| MA | 142 | Medical Assistant Externship |

A minimum of 112 credits are required for an A.A.S. degree and a minimum of 67 credits are required for a certificate.

Liberal Arts Curriculum (Optional A.A.S. Degree)

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 assisting 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.

Departmentally approved electives numbered 100 or above may be substituted for courses required for the A.A.S. degree.

MEDICAL OFFICE BILLLING 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 plentiful in medical clinics, medical insurance companies and private physicians' offices.

Admission Requirements:

Keyboarding skills: 30 wpm with six or fewer errors completed at the SCC testing center or enrollment in BT 101 or 102, current first aid/CPR card or successful completion of ISFTY 111 or equivalent. Students with ASSET scores below 30 or Compass test scores below 43 must successfully complete BT 151 during the first quarter.

FIRST YEAR

| First Q | uarte | r |
|-------------|-------|---|
| ВТ | 090 | Basic Grammar for Business II 5 |
| MSEC | 101 | Medical Terminology and Anatomy 5 |
| MSEC | 108 | Medical Office Computing 5 |
| | | Total |
| Second | l Qua | rter |
| ACCT | 151 | College Accounting I |
| BT | 231 | Office Procedures ¹ 5 |
| MSEC | 102 | Medical Terminology and Anatomy ² 5 |
| | | Total |
| Third (| Quart | er |
| GBUS | 103 | Basic Business Math and Electronic Calculators 5 |
| MSEC | 121 | Medical Office Reception ³ |
| MSEC | 123 | Medical Office Coding ⁴ |
| | | Total |
| SECON | ID YE | AR |
| Fourth | Quai | rter |
| MSEC | 124 | Medical Office Insurance Billing ⁵ 5 |
| MSEC | 125 | Medical Office Bookkeeping ⁶ 5 |
| MSEC | 223 | Medical Office Coding II ⁷ 5 |
| | | Total15 |
| Fifth Q | uarte | r |
| BT | 160 | Job Preparation Techniques |
| MSEC | 120 | Human Relations/Communications for Medical Office |
| | | Personnel |
| MSEC | 284 | Medical Internship Seminar |
| MSEC | 285 | Medical Office Reception Internship ⁸ 2 |
| MSEC | 286 | Medical Insurance Billing Internship ⁸ 2 |
| | | Total |
| | | |

73 credits are required for a certificate.

Students must complete all classes with a 2.0 grade or higher.

- ¹ BT 090, keyboarding proficiency.
- ² MSEC 101.
- $^{\rm 3}$ BT 231or concurrent enrollment with BT 231.
- ⁴ MSEC 101, 102, or concurrent enrollment with 102.
- ⁵ Concurrent enrollment with MSEC 125.
- ⁶ ACCT 151, GBUS 103, and concurrent enrollment with MSEC 124.
- ⁷ MSEC 123.
- 8 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 maximum opportunities for employment. Positions are plentiful in medical clinics, medical insurance companies and private physicians' offices.

Admission Requirements:

Keyboarding skills: 30 wpm with six or fewer errors completed at the SCC testing center or enrollment in BT 101 or 102, current first aid/CPR card or successful completion of ISFTY 111 or equivalent. Students with ASSET scores below 30 or Compass test scores below 43 must successfully complete BT 151 during the first quarter.

First Quarter

| BT | 090 | Basic Grammar for Business II 5 |
|--------|-----|--|
| MSEC | 101 | Medical Terminology and Anatomy 5 |
| MSEC | 108 | Medical Office Computing 5 |
| | | Total |
| Second | Qua | rter |
| BT | 231 | Office Procedures ¹ 5 |
| MSEC | 102 | Medical Terminology and Anatomy ² 5 |
| MSEC | 121 | Medical Office Reception ³ 5 |
| | | Total |
| | | |

Third Quarter

| BT | 160 | Job Preparation Techniques |
|------|-----|---|
| MSEC | 120 | Human Relations/Communications for Medical Office |
| | | Personnel |
| MSEC | 284 | Medical Internship Seminar |
| MSEC | 285 | Medical Office Reception Internship ⁴ |
| | | Total 12 |

42 credits are required for a certificate.

Students must complete all classes with a 2.0 grade or higher.

- ¹ BT 090, keyboarding proficiency
- ² MSEC 101
- $^{3}\,$ 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

A.A.S. Degree: SCC

This program prepares individuals for employment in medical offices. Spokane is a major regional center for medical care offering maximum opportunities for employment. Positions are plentiful in medical clinics, medical insurance companies and private physicians' offices.

Admission Requirements:

Keyboarding skills: 30 wpm with six or fewer errors completed at the SCC testing center or enrollment in BT 101 or 102, current first aid/CPR card or successful completion of ISFTY 111 or equivalent. Students with ASSET scores below 30 or Compass test scores below 43 must successfully complete BT 151 during the first quarter.

FIRST YEAR

| MSEC | 101 | Medical Terminology and Anatomy 5 |
|--------|-------|--|
| MSEC | 108 | Medical Office Computing 5 |
| | | Total |
| Second | l Qua | rter |
| ACCT | 151 | College Accounting I |
| BT | 102 | Document Processing 5 |
| MSEC | 102 | Medical Terminology and Anatomy ¹ 5 |

Third Quarter

| BT GBUS MSEC | 231 103 120 | Office Procedures ² | 5 |
|------------------------------------|---------------------------------|---|------------------|
| MSEC | 123 | Medical Office Coding ³ | 5 |
| SECON | | | _ |
| Fourth | Quar | ter | |
| MSEC MSEC MSEC | 121 223 240 | Medical Office Reception ⁴ | 5 5 |
| | | Total | 5 |
| Fifth Q | uarte | r | |
| BT MSEC MSEC MSEC | 160 124 125 241 | Job Preparation Techniques Medical Office Insurance Billing ⁷ Medical Office Bookkeeping ⁸ Medical Office Transcription ⁹ | 5 5 5 |
| | | Total | 8 |
| Sixth Q | ()uart | er | |
| BT MSEC MSEC MSEC MSEC | 260 180 284 285 287 | Administrative Office Management. Basic Medical Assisting | 5 1 2 2 |
| | | Total | 5 |

98 credits are required for an A.A.S. degree.

Students must complete all classes with a 2.0 grade or higher.

- 1 MSEC 101
- ² BT 090, keyboarding proficiency.
- ³ MSEC 101, 102 or concurrent enrollment with 102.
- ⁴ BT 231 or concurrent with BT 231.
- ⁵ MSEC 123.
- ⁶ Typing test 40 wpm.
- ⁷ Concurrent enrollment with MSEC 125.
- ⁸ ACCT 151, GBUS 103 and concurrent enrollment with MSEC 124.
- ⁹ MSEC 240.
- ¹⁰ All of the courses listed above must be completed before enrolling in an internship. Cooperative Education may be substituted.

MEDICAL TRANSCRIPTION

Certificate: 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. The final quarter offers practical application of medical transcription in a hospital, clinic or medical transcription service environment.

First Quarter

| - | | |
|---------|------|--|
| BT | 090 | Basic Grammar for Business II OR |
| BT | 109 | Business Communications 5 |
| ENG | 153 | Vocabulary Development 5 |
| MSEC | 101 | Medical Terminology and Anatomy 5 |
| MSEC | 190 | Fundamentals of Medical Word Processing4 |
| | | Total19 |
| Second | Qua | rter |
| MSEC | 102 | Medical Terminology and Anatomy 5 |
| MSEC | 146 | Medical Transcription I |
| SPCH | 102 | Interpersonal Communication OR |
| SPCH | 201 | Speech for Business and Professions |
| | | Total 18-20 |
| Third Q | uart | er |
| GBUS | 103 | Basic Business Math and Electronic Calculators 5 |
| MSEC | 103 | Disease Processes |
| MSEC | 147 | Medical Transcription II |
| | | |

BT 160 Job Preparation Techniques 3 MSEC 150 Medical Transcription Practicum 8 MSEC 284 Medical Internship Seminar 1 Total 12

69-71 credits are required for a certificate.

Students must achieve at least a 2.0 grade point in all courses.

MULTI-OCCUPATIONAL TRADES

A.A.S. Degree: SCC

The primary function of the multi-occupational trade 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.

Related Education¹

Fourth Quarter

| APLED | 121 | Applied Written Communication 4 |
|----------|------------------|---|
| APLED | 123 | Leadership Skills for Business and Industry 3-4 |
| APLED | 125 | Employment Preparation |
| | | Total 13-15 |
| ELECTI\ | /ES ² | |
| CIS | 110 | Introduction to Computer Applications 5 |
| MMGT | 205 | Small Business Planning |
| 11111101 | 200 | ontan business i taraming |

23-25 credits are required for an A.A.S. degree.

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 meet the 30-hour residency requirements of A.A.S. degree candidates.

- ¹ These related education requirements may be met by any course or combination of courses approved for substitution by the instructional dean.
- ² These are recommended electives. Substitutions must be approved by the JATC.

NATURAL RESOURCES

A.A.S. Degree: SCC

FORESTRY

PARKS AND RECREATION

SOILS

WILDLIFE/FISHERIES

The associate in applied science degree in natural resources prepares students to work in one of four resource areas: forestry, parks and recreation, soils or wildlife/fisheries. The forestry option is recognized by the Society of American Foresters.

Students must obtain a minimum ASSET score of 108 with a writing score of at least 37 to enter the program.

FIRST YEAR: ALL OPTIONS

| First Q | uarte | r |
|---------|-------|--|
| ENVSC | 110 | Plant Biology 5 |
| NATRS | 112 | Natural Resources Mathematical Applications 5 |
| NATRS | 120 | Basic Computer Applications in Natural Resources OR |
| CIS | 105 | Computer Fundamentals for Vocations I 2 |
| NATRS | 202 | Dendrology5 |
| NATRS | 225 | Natural Resources Occupational Experience 2 |
| | | Total |
| Second | Qua | rter |
| ENG | 120 | Applied Technical Writing for Vocations ¹ |
| NATRS | 122 | Natural Resources Trigonometric Applications 5 |
| NATRS | 215 | Forest Measurements |

| NIATDO | 220 | Introduction to Congraphic Information Systems for |
|---|---|--|
| NATRS | 220 | Introduction to Geographic Information Systems for Natural Resources |
| NATRS | 225 | Natural Resources Occupational Experience |
| Third Q | uarte | |
| ENVSC | | Advanced Wildlife Biology ⁴ OR |
| NATRS | 130 | Chainsaw Operation, Maintenance and Safety ³ 3-4 |
| NATRS | 201 | Forest Protection |
| NATRS | 204 | Maps and Aerial Photo Interpretation |
| NATRS | 205 | Surveying |
| NATRS | 225 | Natural Resources Occupational Experience 1 |
| CECON | D VE | Total 19-20 AR: EACH STUDENT SELECTS A NATURAL |
| | | OPTION. |
| | | Option |
| Fourth | - | |
| NATRS | | Forest Harvesting and Products |
| NATRS | 209 | Silviculture |
| NATRS | 216 | Forest Inventory |
| NATRS | 225 | Natural Resources Occupational Experience |
| -16-1 - | _ | Total |
| Fifth Qu | | |
| ENVSC | 101 | Environmental Conservation |
| ENVSC | 210 | Environmental Soil Science |
| NATRS | 225 | Natural Resources Occupational Experience |
| NATRS | 230 | Global Positioning Systems |
| Sixth Q | uarte | |
| ENVSC | | Wildlife Biology |
| ENVSC | 218 | Environmental Science Conservation Planning 3 |
| NATRS | 208 | Outdoor Recreation and Interpretation 5 |
| NATRS | 221 | Applications in Geographic Information Systems 5 |
| | | Total 18 |
| Parks | An | d Recreation Option |
| Fourth | | |
| ENVSC | - | Environmental Conservation |
| NATRS | 209 | Silviculture |
| NATRS | 225 | Natural Resources Occupational Experience 1 |
| | | Elective ² |
| | | Total |
| Fifth Qu | uarte | r |
| ENVSC | 210 | Environmental Soil Science |
| NATRS | 225 | Natural Resources Occupational Experience 1 |
| NATRS | 230 | Global Positioning Systems |
| | | |
| | | Elective ² |
| | | |
| Sixth Q | uarte | Total |
| Sixth Q ENVSC | | Total |
| | 207 | Total |
| ENVSC | 207 218 | Total |
| ENVSC ENVSC NATRS | 207 218 208 | Total |
| ENVSC ENVSC | 207 218 208 | Total |
| ENVSC ENVSC NATRS NATRS | 207 218 208 221 | Total 14 Per Wildlife Biology |
| ENVSC ENVSC NATRS | 207 218 208 221 Opt | Total |
| ENVSC ENVSC NATRS NATRS | 207 218 208 221 Opt | Total 14 Per Wildlife Biology |
| ENVSC ENVSC NATRS NATRS Soils Fourth NATRS NATRS | 207 218 208 221 Opt Quar 209 225 | Total |
| ENVSC ENVSC NATRS NATRS Soils Fourth NATRS | 207 218 208 221 Opt Quar 209 225 | Total |
| ENVSC ENVSC NATRS NATRS Soils Fourth NATRS NATRS | 207 218 208 221 Opt Quar 209 225 | Total |
| ENVSC ENVSC NATRS NATRS Soils Fourth NATRS NATRS WATER | 207 218 208 221 Opt Quar 209 225 109 | Total 14 Per Wildlife Biology |
| ENVSC ENVSC NATRS NATRS Soils Fourth NATRS NATRS WATER | 207 218 208 221 Opt Quar 209 225 109 | Total 14 Per Wildlife Biology |
| ENVSC ENVSC NATRS NATRS Soils Fourth NATRS NATRS WATER Fifth Qu ENVSC | 207 218 208 221 Opti Quar 209 225 109 | Total |
| ENVSC ENVSC NATRS NATRS Soils Fourth NATRS WATER Fifth Qu ENVSC ENVSC | 207 218 208 221 Opt Quar 209 225 109 | Total |
| ENVSC ENVSC NATRS NATRS Fourth NATRS WATER Fifth Qu ENVSC ENVSC NATRS | 207 218 208 221 Opt Quar 209 225 109 101 210 225 | Wildlife Biology |
| ENVSC ENVSC NATRS NATRS Soils Fourth NATRS WATER Fifth Qu ENVSC ENVSC | 207 218 208 221 Opt Quar 209 225 109 101 210 225 | Total |

| Sixth QuENVSC | | Wildlife Biology |
|-------------------|--------|--|
| ENVSC | 218 | Environmental Science Conservation Planning 3 |
| NATRS | | Applications in Geographic Information Systems 5 Elective ² 5 |
| | | Total |
| | | Fisheries Option |
| Fourth | - | |
| ENVSC | | Field Sampling Techniques |
| NATRS | | Silviculture |
| | | Freshwater Fisheries Biology |
| NATRS | 225 | Natural Resources Occupational Experience 1 Total |
| riful. o. | | |
| Fifth Qu ENVSC | | |
| NATRS | | Environmental Soil Science |
| NATRS | | Natural Resources Occupational Experience |
| WATER | | Water Quality |
| WILLI | 20) | Total |
| Sixth Q | uarte | 2 r |
| - | | Wildlife Biology 5 |
| ENVSC | | Environmental Science Conservation Planning 3 |
| NATRS | 208 | Outdoor Recreation and Interpretation 5 |
| NATRS | 221 | Applications in Geographic Information Systems 5 |
| | | Total |
| 104-106 | credi | ts are required for an A.A.S. degree. |
| 1 Approx | ed w | ritten communications course at the level appropriate for the |
| student | - | |
| 2 Elective | es mus | st be approved by the Natural Resources Department. |

- Electives must be approved by the Natural Resources Department.
- ³ Required option for all programs except Wildlife/Fisheries.
- ⁴ Required option only for Wildlife/Fisheries.

NETWORK DESIGN AND ADMINISTRATION

A.A.S. Degree, Certificate: SCC

The network design and administration program prepares students as local- and wide-area network administrators. Successful completion of the program provides students with the essential skills of network administration including network design, implementation, maintenance, optimization, and troubleshooting, utilizing a variety of network operating systems, and hardware platforms and protocols. These include but are not limited to Microsoft, Cisco and UNIX. Upon completion, students have covered objectives leading toward professional certification. Effective oral and written communications are emphasized throughout the program.

Degree Prerequisites/Requirements:

- Prior completion of BT 100 and CIS 110 or permission of the program
- 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.

FIRST YEAR First Quarter

| | | = |
|--------|-----|--|
| CIS | 205 | Advanced Operating Systems 5 |
| CIS | 240 | Introduction to Networks 5 |
| ENG | 101 | English Composition |
| | | Total |
| Second | Qua | rter |
| CIS | 244 | Windows 2003 Server |
| CIS | 250 | Cisco Networking 5 |
| CIS | 271 | Server and Introduction to Wireless Technologies 5 |
| | | Math Elective ¹ |
| | | Total20 |
| | | |
| | | |

Third Quarter

| CIS | 206 | Introduction to UNIX 5 |
|-----|-----|--|
| CIS | 236 | Windows 2003 Network Infrastructure 5 |
| CIS | 251 | Cisco Network Routing |
| | | Communications Elective ² 5 |
| | | Total20 |
| | | |

SECOND YEAR Fourth Quarter

| CIS | 213 | Advanced UNIX | . 5 |
|---------|-------|--------------------------------|-----|
| CIS | 234 | Network Scripting | |
| CIS | 252 | Cisco LAN Design | |
| MMGT | | | |
| | | Total | |
| Fifth Q | uarte | r | |
| BT | 160 | Job Preparation Techniques | . 3 |
| CIS | 247 | Systems Management | . 5 |
| CIS | 253 | Cisco WAN Design | |
| CIS | 263 | Exchange Server Administration | . 5 |
| | | Total | 18 |
| Sixth Q | uarto | er | |
| CIS | 270 | Principles of Network Security | . 5 |
| CIS | 275 | Networking Capstone | |
| CIS | 286 | | |
| | | Total | 15 |
| | | | |
| Certif | icat | e | |

First Quarter

CIS

| CIS | 240 | Introduction to Networks |
|--------|-----|--|
| ENG | 101 | English Composition |
| | | Total15 |
| Second | Qua | rter |
| CIS | 244 | Windows 2003 Server |
| CIS | 250 | Cisco Networking 5 |
| CIS | 271 | Server and Introduction to Wireless Technologies 5 |
| | | Math Elective ¹ |

205 Advanced Operating Systems.....

Third Quarter

| | | Total | 30 |
|-----|-----|--------------------------------------|----|
| | | Communications Elective ² | 5 |
| CIS | 251 | Cisco Network Routing | 5 |
| CIS | 236 | Windows 2003 Network Infrastructure | 5 |
| CIS | 206 | Introduction to UNIX | 5 |

103.5 credits are required for an A.A.S. degree and 55 credits are required for a certificate.

- ¹ Select from the following math electives: GBUS 217, MATH 111, 115, 201,
- ² Select from the following communications electives: ENG 120, 205, GBUS 280, SPCH 102, 220, 250, 286.

NONINVASIVE CARDIOVASCULAR **TECHNOLOGY**

A.A.S. Degree: SCC

Noninvasive cardiovascular technology 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 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 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.

Admission Prerequisites/Requirements:

- High school diploma or GED certificate
- MATH 0991
- CHEM 1611
- BIOL 1011
- Interview with cardiovascular technology instructor
- Appropriate scores in one of the following: ASSET or Compass

Admission Recommendations:

- Computer skills
- Active email account

A 2.0 grade must be maintained quarterly in every course before proceeding to the next quarter.

FIRST YEAR

First Quarter A-P 242 Human Anatomy and Physiology 5 Organic and Biochemistry for the Health Sciences. . . . 5 **CHEM** 120 ICT 114 NCT **Second Quarter** A-P 243 Human Anatomy and Physiology 5 ICT Cardiovascular II 4 NCT 123 Fundamentals of Medical Physics 5 **PHYS** 120 **Third Quarter** 134 Invasive Cardiovascular Fundamentals 5 ICT **ICT** NCT Noninvasive Cardiovascular Fundamentals 5 **PHYS Fourth Quarter NCT** Noninvasive Cardiovascular Clinical 4 NCT **NCT** Noninvasive Cardiovascular Clinical Observation 6 **SECOND YEAR Fifth Quarter NCT** Echocardiography Clinical I 4 **NCT** 253 **Sixth Quarter** NCT NCT **Seventh Quarter** 273 NCT

109 credits are required for an A.A.S. degree.

Students may repeat a noninvasive course once, but it must be repeated within two years.

NURSING PROGRAM (RN, LPN)

A.A.S. Degree, Certificate: SCC

The purpose of the nursing program, consistent with the mission and objectives of Community Colleges of Spokane, is to prepare men and women to assume entry-level positions as Licensed Practical Nurses (LPN) and Registered Nurses (RN) in the community. Program goals are integrated into the philosophy, conceptual framework, terminal objectives and course objectives for the program. Program of study includes both nursing and general education courses. Supervised clinical experience is provided in selected nursing areas.

After the second quarter, the student is eligible to take the Washington state exam for the Nursing Assistant Certified (NAC). At the completion of the first four quarters, the student is eligible to write the NCLEX Practical Nursing examination. At the completion of seven quarters of the nursing curriculum, the graduate may write the NCLEX exam for Registered Nurse. The program is approved by the Washington State Nursing Care Quality Assurance Commission and is accredited by the National League for Nursing Accrediting Commission.

Admission Prerequisites/Requirements:1

- High school graduate with a 2.5 GPA or GED
- BIOL 101
- CHEM 161
- MATH 96
- Physical examination/immunizations/drug screening (completed after acceptance into the nursing program-forms available in the SCC Admissions Office)
- The Science Department requires entering students to complete A-P 242 and 243, and MBIOL 231 within five years of finishing BIOL 101, CHEM 161 and MATH 96.
- 2.0 GPA or better must be maintained in all prerequisites and all subjects required for a degree. Any course in which a student earns below 2.0 GPA must be repeated before progressing in the program.
- LPNs and transfer students applying for advanced standing will be evaluated on an individual basis — Challenge tests may be offered.
- Students may repeat a nursing class once: a maximum of two nursing courses may be repeated.
- Once the student starts NURS 116, he/she must complete the first year within three years. Once the student starts NURS 215, he/she must complete the second year within three years.

A.A.S. Degree (RN) **FIRST YEAR**

| First Q | First Quarter | | | |
|---------|---------------|--|--|--|
| A-P | 242 | Human Anatomy and Physiology 5 | | |
| NURS | 116 | Nursing Foundations9 | | |
| PSYCH | 101 | Introduction to Psychology5 | | |
| | | Total | | |
| Second | Qua | rter | | |
| A-P | 243 | Human Anatomy and Physiology 5 | | |
| NURS | 125 | Introduction to Medical/Surgical Nursing | | |
| NURS | 131 | Intravenous Therapy Concepts | | |
| | | Total14 | | |
| Third Q | uart | er | | |
| ENG | 101 | English Composition | | |
| HED | 121 | Cultural Diversity in Health Care | | |
| NURS | 135 | Parental and Perinatal Nursing5 | | |
| NURS | 136 | Mental Health Nursing 6 | | |
| | | Total | | |
| Fourth | Quar | rter | | |
| NURS | 141 | Professional Relationships | | |
| NURS | 145 | Medical Surgical Nursing Concepts | | |
| PSYCH | 210 | Developmental Psychology5 | | |

Upon completion of the first four quarters of the nursing program, the student is eligible to write the NCLEX Practical Nursing Exam

¹ All math and science courses must be within the last five years and must have been completed with a 2.0 grade or better.

SECOND YEAR

| Fifth Q | uarte | r | |
|---------|-------|-------------------------------------|------|
| MBIOL | 231 | General Microbiology | 5 |
| NURS | 215 | Advanced Nursing Concepts I | 10 |
| | | Total | 15 |
| Sixth Q | uarto | er | |
| NURS | 225 | Advanced Nursing Concepts II | 10 |
| NURS | 226 | Health Care Management ² | |
| | | Elective ³ | 5 |
| | | Total | 5-17 |
| Sevent | h Qua | arter | |
| NURS | 226 | Health Care Management ² | 2 |
| NURS | 235 | Advanced Nursing Concepts III | 11 |
| | | Elective ³ | 5 |
| | | Total | 6-18 |
| | | | |

116 credits are required for an A.A.S. degree and 68 credits are required for a certificate.

Upon completion of seven quarters of the nursing program, the student is eligible to write the NCLEX Registered Nursing Exam.

- ¹ The nursing program incorporates a selective process for admission. This admission process uses a point system based on relevant coursework completed at the time of application. Entry into the nursing program will be determined by this point system. Please be aware that because of the number of applicants for this program, the completion of all prerequisites does not ensure admission into the program.
- ² May be taken either 6th or 7th quarter.
- ³ Any course numbered 100 or above.

OFFICE ASSISTANT

Certificate: SFCC

The office assistant certificate, a three-quarter program of study, prepares students for entry-level office positions. Students receiving this certificate possess skills in keyboarding and formatting, computer software applications, records management, beginning bookkeeping procedures, and business communications.

Students are prepared to greet customers, make and receive telephone calls, format correspondence and reports, maintain business files, and perform general office duties as assigned.

Students have the opportunity to bridge the gap between the classroom and the working world by participating in cooperative work-classroom experience.

First Quarter

| B.L. | 101 | Keyboarding ¹ 5 | | | |
|----------------|-----|--------------------------------------|--|--|--|
| BT | 107 | Business Communications ² | | | |
| GBUS | 102 | Math Skills for Business | | | |
| GENST | 106 | College Success | | | |
| IS | 160 | Internet Fundamentals | | | |
| | | Total | | | |
| Second Quarter | | | | | |
| ACCT | 103 | Fundamental Bookkeeping Procedures | | | |
| | | | | | |

| BT | 102 | Document Processing |
|----|-----|--------------------------------------|
| BT | 108 | Business Communications ² |

CAPPS 116 PowerPoint OR

CAPPS 120

| Third | Third Quarter | | |
|-------|---------------|---------------------------------------|--|
| BT | 155 | Records Information Management | |
| BT | 160 | Job Preparation Techniques | |
| BT | 231 | Office Procedures | |
| BT | 266 | Cooperative Education Seminar | |
| BT | 267 | Cooperative Education Work Experience | |
| BT | 272 | Business Correspondence 5 | |

47 credits are required for a certificate.

knowledge of business document formatting. Permission of instructor is recom-

² ENG 101 may be substituted.

OFFICE ASSISTANT

Certificate: SCC

The office assistant certificate is a two-quarter program preparing students for entry-level positions. Students completing this program are prepared to format correspondence and reports; write routine letters, emails and memos; and perform a variety of duties depending on the office situations.

First Quarter

| BT | 090 | Basic Grammar for Business II | 5 |
|--------|-------|--|-------|
| BT | 101 | Keyboarding | 5 |
| BT | 151 | Business Student Preparation | 5 |
| | | Total | . 15 |
| Second | l Qua | rter | |
| BT | 102 | Document Processing ¹ | 5 |
| BT | 109 | Business Communications | 5 |
| BT | 160 | Job Preparation Techniques | 3 |
| CATT | 102 | Introduction to Outlook | . 2.5 |
| GRUS | 103 | Basic Business Math and Electronic Calculators | 5 |

35.5 credits are required for a certificate.

OFFICE CLERK

Certificate: SCC

The office clerk certificate is a one-quarter program preparing students for entry-level positions. Students completing this program are prepared to format correspondence and reports, greet callers, make and receive telephone calls in a professional way, use e-mail effectively, maintain electronic calendars, and perform a variety of duties depending on the office situations.

| | | Total | 12 | 7 E |
|------|-----|----------------------------------|----|-----|
| CATT | 102 | Introduction to Outlook | | 2.5 |
| BT | 231 | Office Procedures | | . 5 |
| BT | 102 | Document Processing ¹ | | . 5 |
| BT | 090 | Basic Grammar for Business II | | . 5 |

17.5 credits required for a certificate.

OFFICE INFORMATION SYSTEMS

A.A.S. Degree: SCC

The office information systems program combines training in information processing, information systems, and office administration to give students the diversified training and background needed to hold positions of responsibility in business offices. Students are trained to use word processing, spreadsheet, database, presentation, web page development and project management software. Because using computer systems to manage information is the fundamental role of administrative office professionals, this program gives students a technical overview of office information systems, basic computer hardware and network administration. Advanced classes provide students with office procedures, project management and office management training.

FIRST YEAR

First Quarter

| I II 3 C Q | inst Quarter | | |
|-------------|--------------|--|--|
| BT | 090 | Basic Grammar for Business II 5 | |
| BT | 102 | Document Processing | |
| BT | 151 | Business Student Preparation 5 | |
| GBUS | 103 | Basic Business Math and Electronic Calculators 5 | |
| | | Total | |

¹ Students may take BT 102 if they possess keyboarding skills at 35 wpm and

¹ Keyboarding proficiency of 30 wpm for three minutes with no more than six errors is a prerequisite for BT 102.

¹ Keyboarding proficiency of 30 wpm for three minutes with no more than six errors is a prerequisite for BT 102.

| Second | Qua | rter |
|----------------------------------|---------------------------------|--|
| BT BT CATT MMGT | 109 165 102 223 | Business Communications5Word Processing.5Introduction to Outlook2.5Customer Service.3Total15.5 |
| Third Q | uart | er¹ |
| ACCT ACCT BT BT | 101 151 160 231 | Principles of Accounting OR 5 College Accounting I 5 Job Preparation Techniques 3 Office Procedures 5 Elective3 5 Total 18 |
| SECON Fourth | | |
| BT BT BT CIS | 201 250 272 240 | Information Processing 5 Information Technology 5 Business Correspondence 5 Introduction to Networks 5 Total 20 |
| Fifth Q | uarte | r |
| BT BT CATT CATT CATT | 202 260 172 222 223 | Advanced Information Processing5Administrative Office Management5Introduction to FrontPage2.5Advanced Microsoft Access I2.5Advanced Microsoft Access II2.5Total17.5 |
| Sixth Q | uarto | er |
| BT BT CATT CATT MMGT | 263 285 128 241 242 | Integrated Office Applications5Administrative Professional Internship2Desktop Publishing5Project Management Applications2.5Project Management2.5Total17 |
| 108 cred | lits ar | e required for an A.A.S. degree. |
| 1 | .1 . | |

- ¹ To enter the third quarter of this program, students must pass competency tests in the following areas:
 - Math (fractions, percentages, etc.)
 - Writing (write a basic letter, memo, and/or e-mail with correct spelling, punctuation, grammar, etc.)
 - Format documents from unarranged copy in a timed situation (letters, memos, reports, tables) using Word.
 - Keyboarding proficiency of 40 wpm.
- ² This elective may be ACCT 141, GBUS 204, 205, 280 or SPCH 102.

OFFICE SOFTWARE SPECIALIST

Certificate: SCC

Students enrolled in this four-quarter certificate program are trained to use word processing, spreadsheet, database and presentation software; students also format and proofread manuscripts, tables, reports, correspondence and other documents. Computers have become an integral part of every office. The ability to learn and apply software functions is important for all office workers.

FIRST YEAR

| First Q | First Quarter | | | |
|---------|---------------|--|--|--|
| BT | 090 | Basic Grammar for Business II 5 | | |
| BT | 102 | Document Processing | | |
| BT | 151 | Business Student Preparation | | |
| | | Total | | |
| Second | l Qua | rter | | |
| BT | 109 | Business Communications 5 | | |
| BT | 165 | Word Processing | | |
| CATT | 102 | Introduction to Outlook | | |
| GBUS | 103 | Basic Business Math and Electronic Calculators 5 | | |
| | | Total17.5 | | |
| | | | | |

| BT | 231 | Office Procedures5 | , |
|--------------|------|---------------------------------|---|
| MMGT | 223 | Customer Service | 5 |
| | | Total | į |
| SECON | D YE | AR | |
| Fourth | Quar | ter | |
| BT | 202 | Advanced Information Processing | , |
| | | Information Technology5 | |
| CATT | 128 | Desktop Publishing | , |
| | | Total 15 | |

160 Job Preparation Techniques.....

201 Information Processing 5

63.5 credits are required for a certificate.

- ¹ To enter the third quarter of this program, students must pass competency tests in the following areas:
- *Math (fractions, percentages, etc.)*

Third Quarter¹

BT

- Writing (write a basic letter, memo, and/or e-mail with correct spelling, punctuation, grammar, etc.)
- Format documents from unarranged copy in a timed situation (letters, memos, reports, tables) using Word.
- Keyboarding proficiency of 40 wpm.

OPHTHALMIC DISPENSING

Certificate: SCC

This program is designed to provide students with skills necessary to begin in the optical industry career route to become a licensed dispensing optician. The certified ophthalmic dispenser fills and dispenses eyeglass and contact lens prescriptions in a variety of locations including optical, eye clinics and medical offices. This program is designed to follow the Washington State Dispensing Optician Skills Standards verified statewide by state licensed opticians.

First Quarter

| VCT | 110 | Ophthalmic Optics |
|-------|-------|---------------------------------|
| VCT | 111 | Ocular Anatomy and Physiology 5 |
| VCT | 112 | Introduction to Pretesting4 |
| VCT | 130 | Mechanical Optics |
| | | Total 17 |
| Secon | d Qua | rter |
| VCT | 123 | Ophthalmic Dispensing 5 |
| VCT | 126 | Contact Lenses |
| | | Total |

27 credits are required for a certificate with a 2.0 or better.

All courses are currently offered within the SCC Vision Care Specialist Certificate.

ORTHOTIC-PROSTHETIC TECHNICIAN

A.A.S. Degree, 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 thermoplastic, 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.

Prosthetics Certificate Program

| One year | ar of t | wo-year A.A.S. degree in orthotic-prosthetic technician |
|-------------------------------------|-------------------|--|
| program | | |
| First Qu OR-PR OR-PR OR-PR | 111 112 114 | Prosthetic Tools and Materials 4 Related Human Anatomy 3 Below Knee Prosthetics 10 General Education Requirement 1-5 Total 18-22 |
| Second | Оца | |
| OR-PR OR-PR OR-PR | 122 124 126 | Related Anatomy of the Above Knee Amputation 3 Advanced Below Knee Prosthetics 4 Above-the-Knee Prosthetics 10 General Education Requirement 1-5 Total 18-22 |
| Third Q | uart | er |
| OR-PR OR-PR OR-PR | 132 134 136 | Related Anatomy (Upper Extremity)2Below Elbow Prosthetics8Above Elbow Prosthetics7General Education Requirement1-5Total18-22 |
| Fourth | Ouar | rter |
| OR-PR | | Clinical Prosthetics 6 Total 6 |
| Ortho | tics | Certificate Program |
| | ar of t | wo-year A.A.S. degree in orthotic-prosthetic technician |
| First Qu | uarte | r |
| OR-PR OR-PR OR-PR | 141 142 144 | Orthopedic Equipment and Materials |
| Second | Qua | rter |
| OR-PR OR-PR OR-PR | 152 154 156 | Foot and Ankle Skeletal Structures 3 Orthotic Shoe Fabrications 4 Ankle-Foot Orthosis 10 General Education Requirement 1-5 Total 18-22 |
| Third Q | uart | er |
| $\bigcirc D$ DD | 160 | Polated Anatomy for the Above Vnee Orthotics 1 |

| inira Q | Inira 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 | |
| | | General Education Requirement 1-5 | |
| | | Total 18-22 | |
| Fourth Ouarter | | | |

132 credits are required for an A.A.S. degree and 66 credits are required

GENERAL EDUCATION COURSE REQUIREMENTS:

for a certificate.

| _ |
|---|
| 3 |
| 5 |
| 3 |
| 5 |
| 1 |
| 2 |
| |

OUTPATIENT MEDICAL CODER

Certificate: SCC

This program offers a one-year certificate and prepares students to work with health information in a range of settings including physicians' offices, nursing facilities, ambulatory care clinics and health insurance agencies. Training in realistic work environments include coding and

abstracting clinical data, managing computer databases, health-related legal principles and policies, and knowledge of the Heath Insurance Portability and Accountability Act (HIPAA) regulations. Upon completion of the program, students are eligible to take the national Certified Coding Associate (CCA) certification exam offered by the American Health Information Management Association (AHIMA).

First Quarter

| I II St Q | uaite | | |
|-----------|-------|--|------|
| HIT | 104 | Introduction to Health Information | 3 |
| HIT | 160 | Computer Theory in Health Information | 3 |
| HUC | 108 | Human Anatomy | 5 |
| HUC | 125 | Medical Terminology | 5 |
| SPCH | 102 | Interpersonal Communication | |
| | | Total | . 21 |
| Second | l Qua | rter | |
| HED | 109 | Human Physiology and Disease | 5 |
| HIT | 101 | Health Records Systems | 5 |
| HIT | 161 | Health Management Information Systems | |
| HIT | 212 | Acute Care Coding | 5 |
| | | Total | . 18 |
| Third (| Quart | er | |
| HIT | 129 | Pathophysiology | 5 |
| HIT | 162 | Electronic Health Record Systems | |
| HIT | 214 | Ambulatory Care Coding | 5 |
| HIT | 216 | Reimbursement Strategies for HIM Professionals | |
| HUC | 105 | Legal Concepts in Health | |
| | | Total | . 21 |
| Fourth | Quar | rter | |
| GBUS | 103 | Basic Business Math and Electronic Calculators | 5 |
| HIT | 203 | Clinical Practice | 3 |
| SPCH | 220 | Intercultural Communication | |
| | | Total | . 13 |
| | | | |

73 credits are required for a certificate.

PARALEGAL

A.A.S. Degree, Certificate: SCC

A paralegal/legal assistant is qualified through education, training or work experience to perform substantive legal work that requires knowledge of legal concepts and is customarily, but not exclusively, performed by a lawyer. This person may be retained or employed by a lawyer, law office, governmental agency, or other entity or may be authorized by administrative, statutory or court authority to perform this work. This definition includes those individuals who, with administrative, statutory or court authority, perform substantive legal work directly to the public [National Federation of Paralegal Associations (NFPA)].

This nationally ranked ABA approved program consists of basic and specialty courses designed to prepare students for employment in the legal services field. An A.A.S. degree is awarded after completion of 94-99 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 4-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.

Program Requirements:

Prior to acceptance into the course of study leading to the A.A.S. degree in paralegal studies, students must either achieve a 60 percentile/42 scaled score or better on the written section of the college's assessment test or receive a 2.0 grade or better in Business Communications, BT 109.

Students working toward the A.A. degree for transfer to a four-year institution should consult individually with an adviser or counselor for planning the A.A. degree program. For information on A.A. 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.A.S. Degree:

The degree requires 27 credits of general education courses, 5 credits of other courses (depending on the student's choice of math requirement under the general education courses), 31 credits of basic courses, 8 credits of supervised legal work experience and 28 credits of specialty courses. In the general education courses, at least 15 credits must be distributed among three of the four areas: social science area, humanities area, communication area and math area. The remaining 12 credits may be taken in any combination within these three areas to satisfy the general education courses requirement. All general education courses must be from the paralegal program's approved list.

Students should begin early to meet the prerequisites for LA 120 which are LSEC 239 or 249 and a college-level computer course recommended to be selected from the BT, CIS or LSEC departments' offerings.

Core Curriculum

General Education Courses

| ENG MATH | 101 111 | English Composition or other communications course ¹ 5 Pre-Calculus I OR higher ^{1,2} 0-5 Social Science course1 AND/OR |
|-------------|------------|---|
| | | Humanities course ¹ 5-10 |
| | | General electives ¹ |
| Other (| Cours | es |
| GBUS | 104 | Business Mathematics ² 0-5 |
| | | Total 27-32 |
| Basic C | cours | es |
| GBUS | 204 | Introduction to Law |
| LA | 100 | Legal Careers Orientation |
| LA | 101 | Introduction to Paralegalism |
| LA | 105 | Washington Court Rules-State and Federal 3 |
| LA | 110 | Legal Research and Writing ³ 5 |
| LA | 118 | Instrument Drafting |
| LA | 120 | Law Office Computing ⁴ |
| LA | 125 | Advanced Law Office Computing 5 |
| LA | 130 | Legal Ethics |
| LA | 135 | Professional Effectiveness |
| | | Total |
| Superv | ised | Legal Work Experience |
| LA | 245 | Supervised Legal Work Experience ⁵ 8 |
| | | Total |
| Special | ltv Co | ourses ⁶ |
| ACCT | 101 | Principles of Accounting OR |
| ACCT | 151 | College Accounting I |
| LA | 201 | Introduction to Probate |
| LA | 207 | Community Property and Domestic Relations I 3 |
| LA | 211 | Debtor-Creditor and Bankruptcy |
| LA | 212 | Administrative Law |
| LA | 215 | Commercial Transaction |
| LA | 217 | Business Organizations |
| LA | 218 | Employment Law |
| LA | 219 | The Criminal Process |
| LA | 220 | Torts |
| LA | 221 | Property and Real Estate Transactions I |
| LA | 223 | Idaho Civil and Criminal Court Rules |
| LA | 225 | Trial Preparation and Procedures I |
| LA | 227 | Trial Preparation and Procedures II |
| LA | 230 | Insurance Law for Legal Assistants |
| LA LA | 240 285 | Special Issues Seminar ⁷ . 1-10 Legal Office Internship ⁸ |
| MSEC | 101 | Medical Terminology and Anatomy |
| MSEC | 101 | Medical Terminology and Anatomy |
| IVIOLIC | 102 | Total |
| 04.00 | 11. | |
| 94-99 ci | reaits | minimum (depending on the student's choice of math) |

94-99 credits minimum (depending on the student's choice of math) with a grade of 2.0 or better in each class (including prerequisites) are required for an A.A.S. degree.

A list of curriculum specialties can be found following the certificate program.

Prerequisites and substitutions for courses may be made and/or waived by the program coordinator.

- ¹ See department program coordinator for additional list of courses.
- ² If the student chooses GBUS 104 as a math requirement, student must complete an additional five credits from the list of communications, social science, or humanities electives.
- ³ Prerequisites are ENG 101 and LA 101.
- ⁴ Prerequisites are LSEC 239 or 249 and a college-level computer course recommended to be selected from the BT, CIS, or LSEC departments' offerings.
- Students must complete 8 credits.
- ⁶ Prerequisites for all Legal Specialty Courses: LA 100, 101, 110.
- ⁷ Because each course is different, LA 240 may be repeated as frequently as desired and all credits received may be applied toward the 28 specialty credit requirements for degree.
- ⁸ Maximum of 3 credits of internship may be applied toward this degree.

Certificate

This nationally ranked ABA approved program consists of basic and specialty courses designed to prepare students for employment in the legal services field. A paralegal certificate is awarded after completion of 68-73 credits of required coursework (depending on the math requirement). If full class loads are taken each quarter, the program requires 4-6 quarters to complete. Most specialty classes are taught early morning or evening. The supervised legal work experience required for graduation or internship must be approved by the program coordinator. Ask a counselor or faculty adviser about transfer articulation agreements with 4-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.

Program Requirements:

To enter the paralegal certificate program, students must have completed an A.A. degree or an A.A.S. degree in the Legal Administrative Assistant studies that includes 27 quarter hours or 18 semester hours of acceptable general education and/or a B.A. degree and/or B.S. degree from an accredited college and/or university. Substitutions for prerequisites and program courses may be made and/or waived by the program coordinator.

The certificate requires 10 credits of general education courses and 26 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 or 249 and a college-level computer course recommended to be selected from the BT, CIS or LSEC departments' offerings.

Core Curriculum

General Education Courses

| MATH | 111 | Pre-Calculus I OR higher ^{1, 2} |
|---------|-------|--|
| | | Total |
| Other (| Cours | es |
| GBUS | 104 | Business Mathematics ² 0-5 |
| | | Total |
| Basic C | Cours | es |
| LA | 100 | Legal Careers Orientation |
| LA | 101 | Introduction to Paralegalism |
| LA | 105 | Washington Court Rules-State and Federal 3 |
| LA | 110 | Legal Research and Writing ³ 5 |
| LA | 118 | Instrument Drafting |
| LA | 120 | Law Office Computing ⁴ |
| LA | 125 | Advanced Law Office Computing 5 |
| LA | 130 | Legal Ethics |
| LA | 135 | Professional Effectiveness |
| | | Total |

MSEC

Total8 **Specialty Courses⁶ ACCT** 101 Principles of Accounting⁷ OR ACCT 151 **GBUS** LA LA 207 Community Property and Domestic Relations I..... 3 LA LA LA LA I.A LA LA 221 Property and Real Estate Transactions I.................. 3 LA LA LA LA 227 T.A T.A LA **MSEC** 101 Medical Terminology and Anatomy 7...... 5

Supervised Legal Work Experience

68-73 credits (depending on the student's choice of math) with a grade of 2.0 or higher in each class (including prerequisites) are required for

Total24

A list of curriculum specialties can be found following the certificate program.

Prerequisites and substitutions for courses may be made and/or waived by the program coordinator.

The curriculum is intentionally designed to provide a broad education across several practice areas. Students may wish to narrow their education around a specialty. For those students wishing to do so, the following are some recommendations from among the specialty classes:

- Litigation Specialist: LA 220, 223, 225, 227, 230, 240; MSEC 101,102.
- General Office Specialist: LA 201, 207, 211, 212, 215, 220, 221, 230.
- Business Specialist: ACCT 101, 151; GBUS 205; LA 211, 212, 215, 217, 218, 220, 230, 240.
- Criminal Specialist: LA 219, 220, 223, 225, 227, 240; MSEC 101, 102.

Students are encouraged to confer with college counselors and/or program coordinator with respect to tailoring a course of study most suitable to that student's circumstances, skills and goals. In most situations, a broad education across several practice areas is most appropriate.

- ¹ See department for additional list of courses.
- ² Only needed if the student chooses GBUS 104 as his/her math requirement. (Not required if MATH 111 or higher is chosen for the math requirement.)
- ³ Prerequisite is ENG 101 and LA 101.
- 4 Prerequisites are LSEC 239 or 249 and a college-level computer course recommended to be selected from the BT, CIS or LSEC departments' offerings.
- ⁵ Students must complete 8 credits.
- ⁶ Prerequisites for all Legal Specialty Courses: LA 100, 101, 110.
- Students may use only three of these courses, 15 credits total, toward the 24 Specialty elective credits.
- ⁸ 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 requirements for the degree.
- ⁹ Maximum of 3 credits of internship may be applied toward this degree.

PHARMACY TECHNICIAN

A.A.S. Degree, 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.

Admission Prerequisite/Requirements:

- High school diploma or GED certificate
- Washington State Patrol (WSP) background check
- Drug Screening
- Typing test with a score of 35-40 wpm or completion of BT 101 within the last 5 years
- Interview with pharmacy technician instructor
- 2-hour observation in the pharmacy technician lab
- 3 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.

SOC

SPCH

101

102

| First Quart | er |
|-------------------|------------------------------------|
| HED 108 | Human Anatomy |
| HED 125 | |
| PHARM 101 | |
| PHARM 115 | |
| PHARM 119 | |
| | Total 21 |
| Second Qu | arter |
| ENG 189 | Writing for Vocational Students |
| PHARM 122 | Advanced Pharmacology5 |
| PHARM 123 | |
| PHARM 124 | |
| PHARM 131 | |
| SPCH 127 | Leadership Development |
| | Total 21 |
| Third Quar | ter |
| PHARM 130 | Entering the Work Environment |
| PHARM 132 | |
| PHARM 133 | |
| | Total |
| Liberal A | Arts Curriculum (Optional) |
| | ourses for Optional A.A.S. Degree: |
| CIS 110 | • |
| ENG 101 | |
| PSYCH 101 | |

SPCH Intercultural Communication 5

| OPTIONAL ELECTIVES TO CONSIDER: | | | |
|---------------------------------|-----|------------------------------|---|
| ENG | 201 | Advanced English Composition | 5 |
| GBUS | 101 | Introduction to Business | 5 |
| GBUS | 280 | Human Relations in Business | 5 |
| MATH | 115 | Math for the Liberal Arts | 5 |
| MMGT | 101 | Principles of Management | 5 |
| SOC | 211 | Marriage and the Family | 5 |
| 00 1: | | : 16 AAC 1 156 19 | , |

Introduction to Sociology 5

Interpersonal Communication 5

93 credits are required for an A.A.S. degree and 56 credits are required for a certificate.

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

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 30 credit hours of required courses and 7 hours of department approved electives numbered 100 or above in addition to the one-year professional curriculum. A grade point of 2.0 or better must be maintained in all classes.

PHOTOGRAPHY

A.A.S. Degree: 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 illustration, corporate communications, photojournalism and portraiture, 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 technology.

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.

FIRST YEAR

| FIRST TEAR | |
|----------------|--|
| First Quarte | r |
| GBUS 103 | Basic Business Math and Electronic Calculators 5 |
| PHOTO 101 | Introduction to Photography 5 |
| PHOTO 102 | Photographic Appreciation |
| PHOTO 126 | Digital Photography I 5 |
| | Total |
| Second Qua | rter |
| BT 107 | Business Communications 1 |
| PHOTO 111 | Studio Photography I 4 |
| PHOTO 112 | Photographic Design |
| PHOTO 115 | Photography Lab II |
| | Photography Elective |
| | Total |
| Third Quarte | er |
| ART 105 | Color and Design |
| BT 108 | Business Communications 1 |
| PHOTO 121 | Location Photography I |
| PHOTO 125 | Photography Lab III |
| | Photography Elective |
| | Total |
| SECOND YE | AR |
| Fourth Quar | |
| HS 136 | Improving Interpersonal Communication OR |
| GBUS 280 | Human Relations in Business 5 |
| PHOTO 200 | Photography Media |
| PHOTO 205 | Photography Lab IV |
| 111010 200 | Photography Electives |
| | Total 15-18 |
| Fifth Quarte | |
| GENST 109 | Applied Critical Thinking |
| PHOTO 215 | Photography Lab V |
| PHOTO 227 | Business of Photography |
| 111010 227 | Photography Electives |
| | Total15-17 |
| Sixth Quarte | |
| PHOTO 225 | Photography Lab VI |
| PHOTO 266 | Cooperative Education Seminar |
| PHOTO 267 | Cooperative Education Work Experience 2-5 |
| | Photography Electives 8-10 |
| | Total |
| 96-106 credits | s are required for an A.A.S. degree. |
| | |

PHOTOGRAPHY APPROVED ELECTIVES:

| ART | 127 | Visual Arts Special Workshops 1-15 |
|--------------|-----|---|
| ART | 189 | Printmaking |
| ART | 191 | Screen Printing |
| ART | 192 | Printmaking, Intaglio4 |
| ART | 193 | Lithography (Printmaking) 4 |
| GRDSN | 155 | FreeHand I |
| GRDSN | 156 | Illustrator I |
| GRDSN | 157 | QuarkXPress I |
| GRDSN | 158 | PhotoShop I |
| GRDSN | 160 | Director |
| GRDSN | 162 | MacIntosh OS X |
| GRDSN | 163 | InDesign I |
| GRDSN | 164 | Illustrator II |
| GRDSN | 165 | QuarkXpress II |
| GRDSN | 166 | PhotoShop II |
| GRDSN | 167 | Fireworks |
| GRDSN | 168 | InDesign II |
| GRDSN | 171 | Flash |
| GRDSN | 172 | Dreamweaver |
| GRDSN | 173 | Flash II |
| GRDSN | 174 | Dreamweaver II |
| GRDSN | 200 | Graphic Design Workshop |
| PHOTO | 120 | Photographic Arts |
| PHOTO | 131 | Introduction to Photojournalism |
| PHOTO | 132 | Advanced Black and White Photography 3 |
| PHOTO | 133 | Color Lab |
| PHOTO | 231 | Studio Photography II |
| PHOTO | 232 | Portraiture |
| PHOTO | 233 | Location Photography II |
| PHOTO | 234 | Digital Photography II |
| PHOTO | 235 | Nature and Landscape Photography 5 |
| PHOTO | 236 | Photography Workshop1-4 |
| PHOTO | 237 | Introduction to Documentary DV Production 3 |
| PHOTO | 267 | Cooperative Education Work Experience 1-5 |
| PHOTO | 291 | Independent Study 1-5 |
| PHOTO | 292 | Independent Study 1-5 |
| PHOTO | 293 | Independent Study |
| | | |

¹ ENG 101 or ENG 105 may be substituted for BT 107 and 108.

PHYSICAL THERAPIST ASSISTANT

A.A.S. Degree: SFCC

SFCC offers a two-year program to prepare physical therapist assistants for immediate employment in physical therapy facilities. The program 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. The technical courses for the physical therapist assistant program are not designed to transfer to four-year schools.

Physical therapist assistants work under the supervision of a physical therapist in the delivery of physical therapy services. Their duties include assisting the physical therapist in implementing treatment programs according to the plan of care, training patients in exercises and activities of daily living, conducting treatments, using special equipment, administering modalities and other treatment procedures, and reporting to the physical therapist on the patient's responses.

Physical therapy practitioners work with the entire spectrum of the patient population and are employed in a wide variety of settings, including hospitals and medical centers, rehabilitation centers, pediatric facilities or school systems, private physical therapy clinics, home health care agencies, convalescent centers and extended care facilities.

Admission Prerequisites/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 the fall quarter of entry into the program.
- COMPASS/ASSET score placement into ENG 101 OR transcript showing completion of a 5-credit college-level English composition

¹ Departmentally approved elective numbered 100 or above.

course

- COMPASS/ASSET score placement in MATH 92 OR MATH 96 OR transcript showing completion of college-level elementary/introductory algebra OR successful completion of a prerequisite course for placement into MATH 92 OR MATH 96
- Completion of five quarter-credits of a laboratory course of anatomy and physiology within the past five years (A-P 242). Coursework older than five years will be evaluated on a case-by-case basis.1
- GPA of 2.0 in all prerequisites and all subjects required for the degree
- Documentation of either paid or volunteer experience in a medical setting (prefer physical therapy)
- Current immunizations, and passing of physical examination, drug screening and Washington State Patrol criminal background check
- 1)The PTA program incorporates a selective process for admission. This admission process uses a point system based on relevant coursework completed at the time of application and verification of paid or volunteer experience in a medical setting. Please be aware that the completion of all prerequisites does not ensure admission to the program.
- 2) It is strongly recommended that students take the other general education requirements prior to entering the program. These include Psychology 101, MATH 92 or MATH 96 or equivalent intermediate algebra, and English 101 or equivalent English composition.
- 3) For the complete Physical Therapist Assistant Instruction Booklet, please contact the SFCC Career Center.

FIRST YEAR

| First Qu | uarte | r |
|------------|------------|---|
| PTA | 101 | Introduction to Physical Therapy |
| PTA | 102 | Physical Therapy Terminology |
| PTA | 106 | Regional Human Anatomy and Physiology 5 |
| PTA | 110 | PTA Procedures I: Basic PT Procedures |
| | | |
| Second | | |
| PTA PTA | 103 104 | Applied Anatomy |
| PTA | 104 | Introduction to Neuroscience |
| 1 17 1 | 105 | Total |
| Third Q | luart | |
| PTA | 111 | PTA Procedures II: PT Modalities |
| PTA | 112 | PTA Procedures III: Functional Restoration |
| PTA | 151 | Clinical Experience I |
| | | Total |
| Summe | er Qu | arter (Admission preference is given to students who |
| | | se courses before entry) |
| ENG | 101 | English Composition 5 |
| MATH | 092 | Elementary Algebra II OR |
| MATH | 096 | Introductory Algebra |
| PSYCH | 101 | Introduction to Psychology |
| | | |
| SECON | | |
| Fourth | - | |
| PTA | 202 | Introduction to Orthopedics |
| PTA | 210 | PTA Procedures IV: Therapeutic Exercise |
| PTA PTA | 212 251 | Clinical Experience II |
| 1 171 | 201 | Total |
| Fifth Q | uarto | |
| PTA | 201 | Issues in Physical Therapy and Health Care |
| PTA | 211 | PTA Procedures V: Rehabilitation Applications 7 |
| PTA | 252 | Clinical Experience III |
| | | Total |
| Sixth Q | uarte | er |
| PTA | 253 | PTA Clinical Affiliation |
| | | Total |
| 102 cred | lits re | quired for an A.A.S. degree. |
| | | a prerequisite for A-P 242 or permission of instructor. |

RADIOLOGY TECHNOLOGY

A.A.S. Degree: 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).

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 quarter. All clinicals must be completed with a grade of 2.5 or better.

Admission Requirements:

- Radiology courses are limited to students of the Radiology Technology program.
- A Washington State Patrol (WSP) background check is required.
- A minimum score of 41 on the ASSET test is required in each session
- 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.
- Physical examination, immunizations, and drug screening are required (after being accepted into the radiology technology program). Forms are available in the SCC registration office.
- A-P 242 Human Anatomy and Physiology1
- A-P 243 Human Anatomy and Physiology1
- CIS 110 Introduction to Computer Applications or documented equivalent.
- MATH 099 Intermediate Algebra2
- PHYS 100 Introductory Physics

All math and science prerequisites must have been completed within the last five years with a grade of 2.0 or better.

FIRST YEAR

| 111721 | | | |
|---------|--------|--------------------------------------|----|
| First C | Quarte | er | |
| RAD | 111 | Radiographic Positioning I | |
| RAD | 112 | Medical Terminology for Radiology I | 1 |
| 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 | 7 |
| | | Total | 20 |
| Secon | d Qua | rter | |
| RAD | 121 | Radiographic Positioning II | 3 |
| RAD | 122 | Medical Terminology for Radiology II | |
| 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 | 8 |
| RAD | 127 | Mobile/Surgical Procedures | 1 |
| | | Total | 20 |

| Third | Quart | er |
|-------|---------|-------------------------------------|
| RAD | 131 | Radiographic Positioning III |
| RAD | 132 | Radiation Physics |
| RAD | 134 | Radiographic Image Evaluation III 2 |
| RAD | 136 | Clinical Education III |
| | | Total |
| Fourt | h Quar | rter |
| RAD | 141 | Radiographic Positioning IV 2 |
| RAD | 144 | Radiographic Image Evaluation IV |
| RAD | 145 | Fuch's Radiographic Principles III |
| RAD | 146 | Clinical Education IV |
| | | Total |
| SECO | ND YE | AR |
| Fifth | Quarte | r |
| RAD | 211 | Radiographic Positioning V |
| RAD | 212 | Quality Management |
| RAD | 213 | Various Modalities |
| RAD | 214 | Radiographic Image Evaluation IV |
| RAD | 215 | Radiation Biology and Protection |
| RAD | 216 | Clinical Education V |
| | | Total 17 |
| Sixth | Quart | er |
| ENG | 101 | English Composition ² |
| RAD | 223 | Radiation Pathology |
| RAD | 224 | Radiographic Image Evaluation V |
| RAD | 225 | Skull and GI Review |
| RAD | 226 | Clinical Education VI |
| | | Total |
| Sever | nth Qua | |
| RAD | 235 | Pharmacology/Venipuncture |
| RAD | 236 | Clinical Education VII |
| RAD | 237 | Review and Registration Preparation |
| | | Total |
| 440 | 111 | . 16 |

117 credits are required for an A.A.S. degree.

- ¹ This course has a prerequisite of BIOL 101.
- ² This related education requirement may be met by any course or combination of courses approved by the instructional dean.

RESPIRATORY CARE

A.A.S. Degree: 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 operates under the essentials established by the Committee on Allied Health Education Programs (CAHEP) in collaboration with the Committee on Accreditation for Respiratory Therapy Care (COARC).

Upon completion of the program, the graduate qualifies for an associate in applied science degree and is eligible to apply to take the national entry-level (CRT certification) and advanced practitioner (RRT registry) examinations offered by the National Board for Respiratory Care (NBRC). Additionally, graduates are qualified to sit for the NBRC specialty exams for pulmonary diagnostics and neonatal pediatric specialty.

Admission Prerequisites/Requirements:

- High school diploma or GED certificate
- MATH 099¹
- CHEM 1611
- BIOL 101¹
- Interview with respiratory care instructor
- Four-hour observation in the clinical setting to be arranged by respiratory care faculty

■ Appropriate scores in one of the following: ASSET or Compass

Admission Recommendations:

- Computer skills
- Active email account
- American Heart Association: HCP CPR card (within six months)

FIRST YEAR

| First Qu | uarte | r |
|----------------|-------|--|
| A-P | 242 | Human Anatomy and Physiology 5 |
| NCT | 113 | Electrophysiology I |
| RT | 110 | Physical Science for Respiratory Care |
| RT | 111 | Respiratory Care Fundamentals I |
| RT | 112 | Pharmacology and Medical Terminology I 1 |
| | | Total |
| Second Quarter | | |
| A-P | 243 | Human Anatomy and Physiology 5 |
| NCT | 123 | Electrophysiology II 4 |
| RT | 120 | Respiratory Care Fundamentals II 4 |

Interpersonal Communication 5

Third Quarter

RT SPCH

| MBIOL | 231 | General Microbiology ² | 5 |
|-------|-----|--|----|
| RT | 130 | Fundamentals of Spirometry and Blood Gas Analysis. | 3 |
| RT | 131 | Cardiopulmonary Anatomy and Physiology | 1 |
| RT | 132 | Respiratory Care Fundamentals III | 4 |
| RT | 133 | Pharmacology and Medical Terminology II | 3 |
| RT | 134 | Respiratory Care Clinical I | 1 |
| | | Total | 17 |
| | | | |

Fourth Quarter

| RT | 140 | Respiratory Care Fundamentals IV | 2 |
|----|-----|--|---|
| RT | 141 | Medical/Surgical Respiratory Care | 1 |
| RT | | Computer Applications for Respiratory Care | |
| RT | 143 | Respiratory Care Clinical II | 5 |
| | | Total | 9 |

SECOND YEAR

| | Fifth Quarter | | | |
|---|---------------|-----|--|--|
|] | RT | 210 | Critical Care I 6 | |
|] | RT | 211 | Advanced Cardiac Life Support 2 | |
|] | RT | 212 | Respiratory Care Clinical III 5 | |
|] | RT | 213 | Pulmonary Volumes, Diffusion and Instrumentation 3 | |
|] | RT | 214 | Pulmonary Diagnostics Clinical I | |

Sixth Quarter

RT

| RT | 220 | Critical Care II |
|----|-----|--|
| RT | 221 | Perinatal Respiratory Care |
| RT | 222 | Respiratory Care Clinical IV 4 |
| RT | 223 | Advanced Pulmonary Diagnostics 4 |
| RT | 224 | Advanced Pulmonary Diagnostics Clinical II 1 |
| | | Total |

Seventh Quarter

| | | Total | 14 |
|----|-----|---|-----|
| RT | 234 | Respiratory Care Clinical V | . 5 |
| RT | 233 | Fundamentals of Management in Health Care | . 2 |
| RT | 232 | Sub-Acute/Rehabilitation Respiratory Care | . 2 |
| RT | 231 | Patient Management and Problem Solving | . 3 |
| RT | 230 | Current Trends in Respiratory Care | . 2 |

109 credits are required for an A.A.S. degree.

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

Students may repeat/re-enter the program one time (space permitting), but must complete the program within three years. All returning students must interview with program instructor and a health science counselor.

- All math and science courses must have been taken within the last five years and must have been completed with a 2.0 grade or better.
- ² MBIOL 231 can be taken spring or summer quarter.

RETAIL MANAGEMENT

A.A.S. Degree, Certificate: SFCC

Retail management is a two-year specialized management program designed to prepare both men and women for responsible managerial careers in retail merchandising. Closely allied with the fashion merchandising program, emphasis is placed on inventory control procedures and techniques, in-store promotion, budgeting, buying techniques and retail salesmanship.

FIRST YEAR

| First Qu | ıarte | r | |
|--------------|---------------|--|--|
| BT | 107 | Business Communications ¹ | |
| FMDSE | 111 | Fashion Merchandising Seminar ² | |
| FMDSE | 267 | Cooperative Education Work Experience ² | |
| GBUS | 101 | Introduction to Business 5 | |
| GBUS | 103 | Basic Business Math and Electronic Calculators 5 | |
| MMGT | 181 | Leadership Training-DEC | |
| | | Total16 | |
| Second | Qua | rter | |
| ENG | 109 | Speech Composition AND | |
| SPCH | 101 | Introduction to Speech Communication 5 | |
| FMDSE | 112 | Fashion Merchandising Seminar ² | |
| FMDSE | 150 | Principles of Retail Merchandising 5 | |
| FMDSE | 180 | Retail Sales Techniques | |
| FMDSE | 267 | Cooperative Education Work Experience ² | |
| MMGT | 182 | Leadership Training-DEC | |
| | | Total16 | |
| Third O | Third Ouarter | | |

| IIIIIu Quai | .ei |
|-------------|--|
| BT 108 | Business Communications ¹ |
| BT 272 | Business Correspondence 5 |
| FMDSE 113 | Fashion Merchandising Seminar ² |
| FMDSE 267 | Cooperative Education Work Experience ² |
| IS 120 | Business Computer Use |
| MMGT 183 | Leadership Training-DEC |
| | Electives Group A, B, or C |
| | Total |

SECOND YEAR

| | | Total |
|------|-----|---|
| | | Elective Group C |
| | | C 5 |
| | | Courses from requirements or electives Group A, B, or |
| MMGT | 211 | Marketing 5 |
| MMGT | 218 | Fundamentals of Advertising 5 |

FMDSE 224 Principles of Retail Promotion OR

Fifth Ouarter

| ACCT | 101 | Principles of Accounting ³ 5 |
|------|-----|---|
| | | Introduction to Macroeconomics 5 |
| GBUS | 280 | Human Relations in Business OR |
| MMGT | 231 | Human Resource Management 5 |
| | | Total |
| | | |

Sixth Quarter

| FMDSE 210 | Merchandising Management 5 |
|-----------|--|
| | Courses from requirements or electives Group A, B, or C 12 |
| | Total 17 |

Sufficient elective credits from Group A, B and C below must be obtained throughout the two-year program for graduation requirements of 96 credits.

GROUP A-BUSINESS ELECTIVES:

| ACCT | 102 | Principles of Accounting 5 |
|-------------|-----|----------------------------------|
| BT | 101 | Keyboarding 5 |
| ECON | 202 | Introduction to Microeconomics 5 |
| ENG | 095 | Reading Lab |
| GBUS | 100 | Money Management |
| GBUS | 205 | Business Law |
| GBUS | 217 | Business Statistics |
| | | |

| GBUS | 280 | Human Relations in Business5 |
|------|-----|--|
| MMGT | 101 | Principles of Management 5 |
| MMGT | 231 | Human Resource Management 5 |
| MMGT | 270 | Conference Preparation Techniques 1-5 |
| SBM | 101 | How to Start a Small Business 5 |
| | | OR Other Business Course approved by the |
| | | management adviser. |

GROUP B-ELECTIVES:

| ART | 105 | Color and Design |
|--------------|-----|---|
| FMDSE | 161 | Merchandise Trends |
| INTDS | 170 | Elements of Interior Design 5 |
| INTDS | 179 | History of Interiors I |
| INTDS | 180 | History of Interiors II |
| | | Or Other Home Economics or Art Course approved by |
| | | the management adviser. |

GROUP C-COMPUTER SOFTWARE ELECTIVES:

| CAPPS | 102 | Introduction to Office | 1 |
|-------|-----|------------------------|---|
| CAPPS | 110 | Word | 1 |
| CAPPS | 112 | Excel | 1 |
| CAPPS | 114 | Access | 1 |

- ¹ May substitute ENG 101.
- ² Three credits of work experience are required. Must be taken concurrently with seminar.
- ³ ACCT 103 and 104 may be substituted for ACCT 101.

Retail Management Certificate

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).

First Quarter

| BT FMDSE GBUS | | Business Communications ² |
|---------------------|-----|--|
| IS 120 | | Business Computer Use |
| | | Total |
| Second | Qua | rter |
| ACCT | 101 | Principles of Accounting 5 |
| ENG | 109 | Speech Composition AND |
| SPCH | 101 | Introduction to Speech Communication 5 |
| BT | 108 | Business Communications ² |
| MMGT | 231 | Human Resource Management 5 |
| | | Total 18 |

Third Quarter

| MMGT | 101 | Principles of Management | 5 |
|------|-----|-----------------------------|---|
| MMGT | 211 | Principles of Marketing | 5 |
| | | Human Relations in Business | |
| | | - 4 4 | _ |

49 credits are required for a certificate.

- ¹ May substitute Math 91 or above
- ² May substitute English 101

SMALL BUSINESS MANAGEMENT

A.A.S. Degree: SFCC

The objectives of this program are to educate students in the techniques and principles of owning, operating and managing a small business, and to make current small business owners more effective and efficient in their operations. This program provides support courses for

other vocational programs by concentrating on specific small business knowledge and skills.

FIRST YEAR

| FIRST Y | <u>EAR</u> | |
|----------|------------|--|
| First Qu | uarte | r |
| ACCT | 101 | Principles of Accounting ¹ |
| BT | 107 | Business Communications ² |
| GBUS | 101 | Introduction to Business |
| MMGT | 111 | Mid-Management Seminar |
| | | Computer Elective (Information Systems) |
| | | Total |
| Second | Oua | rter |
| BT | 108 | Business Communications ² |
| CRMGT | | Financial Statement Analysis |
| GBUS | 105 | Principles of Leadership ³ |
| GBUS | 280 | Human Relations in Business 5 |
| MMGT | 112 | Mid-Management Seminar |
| | | Total |
| Third Q | uart | er |
| ACCT | 107 | Accounts Receivable Procedures |
| GBUS | 103 | Basic Business Math and Electronic Calculators 5 |
| GBUS | 108 | eBusiness |
| MMGT | 211 | Marketing 5 |
| | | Computer Elective (Information Systems) |
| | | Total |
| SECON | D YE | AR |
| Fourth | Quar | ter |
| ACCT | 115 | Accounting for Current Liabilities |
| BT | 272 | Business Correspondence 5 |
| FMDSE | 224 | Principles of Retail Promotion 5 |
| GBUS | 205 | Business Law |
| | | Total |
| Fifth Q | uarte | r' |
| ACCT | 121 | Payroll Procedures |
| ECON | 100 | Fundamentals of Economics ⁴ 5 |
| SBM | 101 | How to Start a Small Business 5 |
| SBM | 105 | Targeting Your Market |
| | | Total |
| Sixth Q | uarto | |
| ACCT | 122 | Business Tax Accounting |
| CRMGT | | Introduction to Finance |
| ENG | 109 | Speech Composition AND |
| SPCH | 101 | Introduction to Speech Communication 5 |
| MMGT | 101 | Principles of Management |
| | | Computer Elective (Information Systems) |
| | | Total |
| | | |

90 credits are requires for an A.A.S. degree.

Keyboarding proficiency of 35 wpm expected.

- ¹ ACCT 103 and 104 may be substituted for ACCT 101.
- ² May substitute ENG 101 for BT 107 and 108.
- ³ May substitute MMGT 181, 182, 183 for GBUS 105.
- ⁴ May substitute ECON 201 for ECON 100.

SOCIAL SERVICES

A.A.S. Degree: SFCC

The social service program is designed for those who plan to seek employment in social services upon completion of the two-year program, or who wish to transfer to a four-year institution and complete a bachelor's degree.

The social service program leads to:

- 1. An associate of arts (A.A.) degree that is for those who wish to transfer to a four-year college and complete a bachelor's degree, or
- 2. An associate in applied science (A.A.S.) degree designed for those who plan to seek employment in social services upon completion of the two-year program.

Those who have completed the A.A.S. program will have acquired the necessary skills to work in various public and private social services programs.

FIRST YEAR

| First Qu | arte | r |
|----------------------|--------------------------|---|
| HS HS HSSUB | 102 136 131 | Introduction to Human Services. 5 Improving Interpersonal Communication 5 Survey of Chemical Dependency 3 Elective ¹ 5 Total 18 |
| Second | Qua | rter |
| HS HSGER HSGER | | Child Abuse .5 Introduction to Social Gerontology .5 Death, Loss and Grief .5 Total .15 |
| Third Q | uarto | er |
| HS HSSOC HS | 115 115 221 115 | Social Policy OR Social Policy OR Treatment Theories in Human Services |
| SECONE |) YE | AR |
| Fourth (| Quar | ter |
| GBUS | 103 | Basic Business Math and Electronic Calculators OR |
| HS | 281 | Other Math. 5 Practicum I 5 Elective1 5 |
| =15:1 | | Total |
| Fifth Qu HS | 1 arte 282 | Practicum II OR |
| HSGER | | Elective |
| Sixth Qu | uarte | |
| - | 283 | Practicum III OR HS Elective |

93 credits are required for an A.A.S. degree.

SOFTWARE DEVELOPMENT

A.A.S. Degree, Certificate: SCC

The software development program trains students in current web and application development technologies as well as acclimating to change and life-long learning. Software development is constantly changing, so people must be able to adapt quickly and find answers through reading, problem solving, researching techniques and applying existing technology. Graduates from this program have the skills to continue learning, adapt to change and find answers that may not exist upon graduation. Inherent in software development are problem-solving techniques, responsibility, ethics, and, by its nature, global awareness and constant communication with people in our community and around the world.

Admission Prerequisite Requirements:

CIS 110 Introduction to Computer Applications or permission of instructor

Students must maintain a grade of 2.0 in each class.

¹ Elective specified from Transfer Track Elective or HS electives as specified and recommended by advisor.

| FIRST Y | EAR | |
|----------------|-----------------|--|
| First Q | uarte | r |
| CIS | 111 | XHTML Basics |
| CIS | 112 | Graphic Design for the Web 5 |
| CIS | 146 | Introduction to Programming |
| ENG | 101 | English Composition ¹ |
| LIVO | 101 | Total |
| Second | l Oua | |
| CIS | 126 | DBMS/SQL5 |
| CIS | 130 | Website Design. 5 |
| CIS | 282 | Beginning Java |
| CIO | 202 | Total |
| Third Q |)uart | |
| CIS | 114 | JavaScript5 |
| CIS | 283 | Advanced Java |
| MATH | 115 | Math for the Liberal Arts ¹ 5 |
| 1412 11111 | 110 | Total |
| SECON | D VE | |
| SECON | | |
| Fourth | - | |
| CATT | 241 | Project Management Applications |
| CIS | 256 | .Net Application Development |
| CIS | 284 | Ruby on Rails |
| MMGT | 242 | Project Management |
| | | Total |
| Fifth Q | uarte | |
| CIS | 147 | Emerging Technology ¹ |
| CIS | 258 | ASP.NET |
| CIS | 272 | Agile Software Development 5 |
| | | Total |
| Sixth Q | uarto | er |
| ВТ | 160 | Job Preparation Techniques ¹ |
| CIS | 276 | Software Development Capstone 5 |
| SPCH | 102 | Interpersonal Communication ¹ 5 |
| | | Total 13 |
| 93 credi | ts are | required for an A.A.S. degree. |
| 1 This re | elated (| education course may be substituted with any course or courses |
| approt | ped by | the instructional dean. |
| Web | Desi | ign Certificate |
| CIS | | XHTML Basics |
| CIS | 112 | Graphic Design for the Web 5 |
| CIS | 130 | Website Design |
| | | Total |
| 15 credi | ts are | required for a certificate. |
| | | • |
| | | eloper Certificate |
| CIS | 126 | |
| CIS | 256 | .Net Application Development |
| CIS | 258 | ASP.NET |
| | | Total |
| 15 credi | ts are | required for a certificate. |
| C | 4 | v Calaman Cartificate |
| _ | | r Science Certificate |
| CIS | 146 | Introduction to Programming |
| CIS | 282 | Beginning Java |
| CIS | 283 | Advanced Java |
| | | Total15 |
| 15 credi | ts are | required for a certificate. |
| Web | Dev | eloper Certificate |
| CIS | 114 | JavaScript |
| CIS | 258 | ASP.NET |
| CIS | 272 | Agile Software Development |
| CIS | 284 | Ruby on Rails |
| C10 | 20 4 | Total |
| • • • | | |
| 20 credi | ts are | required for a certificate. |

SURGICAL TECHNOLOGY

A.A.S. Degree: 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 responsibility expected of the surgical technologist as a beginning staff employee in the operating room. Upon completion of the program, students will be eligible to write the National Certifying Examination for Surgical Technologists for qualification as a certified surgical technologist (CST).

The surgical technology program is accredited through Commission on Accreditation of Allied Health Education Programs (CAAHEP). 1361 Park Street, Clearwater, FL 33756; Phone: (727) 210-2350; Website: www.caahep.org.

Admission Prerequisites/Requirements:

- High school diploma or GED certificate
- MATH 92 or 96 or a passing score on the assessment test
- Appropriate scores in one of the following: ASSET or Compass

Program Requirements:

- 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 threeyear period.
- Students can enter into the third or fourth quarter 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.

Program Recommendations:

- Computer Skills
- Active email account

FIRST YEAR

| First Q | First Quarter | | | |
|---------|---------------|---|--|--|
| BIOL | 101 | General Biology | | |
| SPCH | 102 | Interpersonal Communication 5 | | |
| SURG | 100 | Introduction to Surgical Technology | | |
| SURG | 125 | Medical Terminology | | |
| | | Total | | |
| Second | l Qua | rter | | |
| A-P | 242 | Human Anatomy and Physiology 5 | | |
| CIS | 110 | Introduction to Computer Applications 5 | | |
| ENG | 101 | English Composition | | |
| SURG | 120 | Disease Transmission and Control | | |
| | | Total | | |
| Third Q | Quart | er | | |
| A-P | 243 | Human Anatomy and Physiology 5 | | |
| MATH | 100 | Vocational Technical Mathematics | | |
| SURG | 101 | Surgical Procedures | | |
| SURG | 104 | Central Service Clinical | | |
| SURG | 111 | Technical Skills I | | |
| | | Total 17 | | |
| SECON | D YE | AR | | |
| Fourth | Quar | ter | | |
| SURG | 105 | Blood-borne Pathogens and HIV/AIDS | | |
| SURG | 202 | Surgical Procedures | | |

| SURG | 254 | Operating Room Practicum |
|---------|---------|--------------------------------------|
| | | Total12 |
| Fifth Q | uarte | r |
| SURG | 132 | Ethics and Professionalism in Health |
| SURG | 203 | Surgical Procedures |
| SURG | 206 | Perioperative Care of the Patient 4 |
| SURG | 255 | Operating Room Practicum 5 |
| | | Total |
| Sixth Q | uarto | er |
| SURG | 250 | Surgical Seminar |
| | | Operating Room Practicum |
| | | Total |
| 00 1: | 10 0 00 | magning of far an A A C dagree |

92 credits are required for an A.A.S. degree.

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.

First Ouarter

| CIS | 110 | Introduction to Computer Applications |
|--------|-------|--|
| CJ | 209 | Human Relations |
| ENG | 101 | English Composition |
| SPCH | 102 | Interpersonal Communication 5 |
| | | Total |
| Second | l Qua | rter |
| CATT | 122 | Microsoft Access I |
| CATT | 123 | Microsoft Access II |
| CJ | 150 | Criminal Justice Report Writing 5 |
| CJ | 212 | Professional Development |
| CJ | 266 | Cooperative Education Seminar AND |
| CJ | 267 | Cooperative Education Work Experience OR 6 |
| CJ | 288 | Cooperative Education Work Experience (No Seminar) 7 |
| | | Total |
| | | |

36 credits are required for a certificate.

VASCULAR TECHNOLOGY

A.A.S. Degree: 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.

Students may change programs one time within related imaging programs with permission of the faculty. Students must earn a grade of 2.0 or higher in each class in order to proceed to the next quarter.

Program Prerequisites:

- Anatomy and Physiology 242 and 243:
- Math 099
- Chemistry 161
- Biology 101
- All math and science prerequisites must have been completed within the last five years with a grade of 2.0 or better.
- Students may repeat a professional class once, but it must be repeated within two years.

Related Education Courses

FIRST YEAR

| FIK51 1 | EAK | |
|---------|-------|---|
| First Q | uarte | r |
| CHEM | 120 | Organic and Biochemistry for the Health Sciences 5 |
| ICT | 114 | Cardiovascular I |
| NCT | 113 | Electrophysiology I |
| VASC | 112 | Vascular Fundamentals |
| | | Total 17 |
| Second | l Qua | rter |
| ICT | 124 | Cardiovascular II |
| NCT | 123 | Electrophysiology II |
| PHYS | 120 | Fundamentals of Medical Physics 5 |
| SPCH | 127 | Leadership Development |
| VASC | 122 | Vascular Procedures |
| | | Total20 |
| Third Q | Quart | er |
| ICT | 134 | Invasive Cardiovascular Fundamentals 5 |
| NCT | 133 | Noninvasive Cardiovascular Fundamentals 5 |
| PHYS | 121 | Medical Physics II |
| VASC | 132 | Cardiovascular Physiology 5 |
| | | Total |
| Fourth | Quai | rter |
| NCT | 141 | Computers for the CV Technologist |
| NCT | 142 | Noninvasive Cardiovascular Clinical 4 |
| VASC | 143 | Noninvasive Cardiovascular Clinical Observation \dots 6 |
| | | Total |
| SECON | D YE | AR |
| Fifth Q | uarte | r |
| ENG | 101 | English Composition |
| VASC | 252 | Advanced Vascular Techniques 9 |
| | | Total |
| Sixth Q | uart | er |
| VASC | 262 | Vascular Clinical I |
| | | Total |
| Sevent | h Qua | arter |
| VASC | 272 | Vascular Clinical II |
| | | Total |
| | | |

109 credits are required for an A.A.S. degree.

A 2.0 grade point must be maintained quarterly in each course before proceeding to the next quarter.

VISION CARE

A.A.S. Degree, Certificate: SCC

VISION CARE TECHNOLOGY VISION CARE SPECIALIST

A career in vision care offers a variety of job opportunities within the health care field. The one-year certificate program provides graduates with the skills necessary to assist practitioners of optometry, ophthalmology and opticianry to provide a full scope of vision care. The aging population needs have stimulated technical advancements in ophthalmic lens materials, new contact lens design and increased medical/surgical treatment procedures. This factor provides a special opportunity for those individuals who enjoy the challenge of keeping abreast of change.

Students may earn a vision care specialist certificate by taking the three-quarter professional vision care curriculum. Graduates are prepared to sit for the nationally recognized Assistants Registry Exam (AOA). Those students wishing to pursue a vision care technology A.A.S. degree may take the additional three quarters of liberal arts curriculum.

Admission Prerequisites/Requirements:

- High school diploma or GED certificate
- Appropriate ASSET or Compass scores

Admissions Recommendations:

- BIOL 101
- CHEM 161
- MATH 99
- Computer Skills
- Active email account

FIRST YEAR

First Quarter

| Second Ouarter | | |
|----------------|-----|--|
| | | Total22 |
| VCT | 130 | Mechanical Optics |
| VCT | 112 | Introduction to Pretesting4 |
| VCT | 111 | Ocular Anatomy and Physiology 5 |
| VCT | 110 | Ophthalmic Optics 5 |
| ENG | 120 | Applied Technical Writing for Vocations5 |
| ENG | | English Composition OR |

Second Quarter

| VCT | 123 | Ophthalmic Dispensing | | |
|---------------|-----|-------------------------|--|--|
| VCT | | Ocular Pharmacology | | |
| VCT | 125 | Advanced Pretesting 6 | | |
| VCT | 126 | Contact Lenses | | |
| | | Total | | |
| Third Quarter | | | | |
| VCT | 137 | Vision Care Specialties | | |

| т 11. | | d 1 1 1 1 1 C1 1 C Cd |
|-------|-----|--------------------------------|
| | | Total |
| VCT | 139 | Ophthalmic Business Management |
| VCT | 138 | Vision Care Practicum |

In addition to the above listed classes, successful completion of the following classes is required in order to receive the A.A.S. degree. They may be taken at any time outside of the regular hours required for the vision care program. It is the student's responsibility to schedule these classes.

Each required course for the degree and/or the certificate must be completed with a 2.0 grade or better before proceeding to the next quarter.

Liberal Arts Curriculum (Optional)

SECOND YEAR

| Require | Required Courses | | | | | |
|--------------|------------------|--|--|--|--|--|
| CIS | 110 | Introduction to Computer Applications ¹ | | | | |
| ISFTY | 111 | Industrial First Aid ¹ | | | | |
| MATH | 099 | Intermediate Algebra ¹ | | | | |
| SPCH | 102 | Interpersonal Communication ¹ 5 | | | | |
| Studen | ts ma | ay choose one of the following courses | | | | |
| BIOL | 101 | General Biology ¹ | | | | |
| CHEM | 100 | Survey of Chemistry ¹ | | | | |
| CHEM | 161 | General Chemistry for Health Sciences ¹ | | | | |
| PHYS | 101 | General Physics ¹ | | | | |
| PHYS | 120 | Fundamentals of Medical Physics ¹ | | | | |
| Studen | ts ma | ay choose one of the following courses | | | | |
| ACCT | 101 | Principles of Accounting ¹ | | | | |
| ACCT | 151 | College Accounting I ¹ | | | | |
| MMGT | 205 | Small Business Planning ¹ 5 | | | | |
| Studen | ts ma | ay choose one of the following courses | | | | |
| PHIL | 101 | Introduction to Philosophy ¹ 5 | | | | |
| PSYCH | 101 | Introduction to Psychology ¹ 5 | | | | |
| SOC | 101 | Introduction to Sociology ¹ 5 | | | | |
| SPCH | 220 | Intercultural Communication ¹ 5 | | | | |

Students may choose 8 credits of electives numbered 100 or above

92 credits are required for an A.A.S. degree and 52 credits are required for a certificate.

Students may repeat a vision technology course once, but it must be repeated within two years.

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

WATER RESOURCES TECHNOLOGY

A.A.S. Degree: 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.

FIRST YEAR

First Quarter¹

| AGGEN 151 | Agriculture Shop Skills 4 |
|---------------------|---|
| NATRS 112 | Natural Resources Mathematical Applications ² 5 |
| WATER 109 | Introduction to Water Resources 5 |
| WATER 120 | Hydrologic Technical and Field Reports ² |
| WATER 128 | Occupational Preparation and Experience ² |
| | Total20 |
| Second Qua | rter |
| NATRS 122 | Natural Resources Trigonometric Applications ² 5 |
| NATRS 220 | Introduction to Geographic Information Systems for |
| | Natural Resources ³ 4 |
| WATER 129 | Occupational Preparation and Experience 2 |
| WATER 132 | Hydrologic Field Projects ¹ |
| WATER 208 | Water Data and Records Analysis5 |
| | Total |
| Third Quarte | er |
| NATRS 204 | Maps and Aerial Photo Interpretation 5 |
| WATER 133 | Hydrologic Field Projects ^{1,2} |
| WATER 205 | Surveying ⁴ |
| WATER 210 | Hydrologic Measurement |
| | Total 17 |

SECOND YEAR

Fourth Quarter

| | 8, | | | |
|--------------|---|--|--|--|
| WATER 110 | Hydrogeology5 | | | |
| WATER 212 | Water Rights and Laws | | | |
| WATER 214 | Advanced Hydrologic Records 5 | | | |
| WATER 228 | Occupational Preparation and Experience | | | |
| WATER 231 | Hydrologic Field Projects ¹ | | | |
| | Total23 | | | |
| Fifth Quarte | r | | | |
| NATRS 230 | Global Positioning Systems | | | |
| WATER 111 | Groundwater Systems | | | |
| WATER 209 | Water Quality | | | |
| WATER 218 | Hazardous Materials | | | |
| WATER 229 | Occupational Preparation and Experience 2 | | | |
| WATER 232 | Hydrologic Field Projects ¹ | | | |
| | Total | | | |
| Sixth Quarte | Sixth Quarter | | | |
| | | | | |

| NATRS 221 | Applications in Geographic Information Systems 5 |
|-----------|--|
| WATER 213 | Advanced Water Quality 5 |
| | Watershed Restoration 5 |
| WATER 233 | Hydrologic Field Projects ¹ |
| | Total |

119 credits are required for an A.A.S. degree.

WATER 131 may be taken in the first quarter. Students are required to complete a minimum of five of the six field projects: WATER 131, 132, 133, 231, 232, 233

- ² These related education requirements may be met by any course or combination of courses approved by the instructional dean.
- ³ Students must pass a competency test.
- ⁴ May be substituted with NATRS 205.

WEB DESIGN

A.A.S. Degree: SFCC

The web design program is a two-year course based upon the graphic design program. Students study the fundamentals of design, drawing, typography, color and form, problem solving, critical thinking and 3D and 2D animation. The use of computers and their operating systems is emphasized. Competency is achieved on the predominant graphics programs.

Specific to the Internet, students design interfaces and structure information to create Web pages and sites. Graphics imagery and animations tailored to the Web will be constructed, paying close attention to file formats, color control and compression techniques. Web pages will be programmed using HTML (hypertext markup language). An introduction to several programming languages designed for the Internet aid in designing functions and interactivity in Web sites.

FIRST YEAR

| First Qu | ıarte | r |
|----------------|--------------------|-------------------------------|
| GRDSN | | Design Process I |
| GRDSN | 102 | Design Technology I |
| GRDSN | 103 | Design Projects I |
| GRDSN | | Design Lab I |
| GRDSN | | Drawing for Graphic Designers |
| GRDSN | | History of Design 4 |
| GRDSN | | Illustrator I |
| GRDSN | 163 | InDesign I |
| | | Total |
| Second | - | |
| ART | 105 | Color and Design 5 |
| GRDSN | | Design Process II |
| GRDSN | | Design Technology II |
| GRDSN | | Design Projects II |
| GRDSN | | Design Lab II |
| GRDSN GRDSN | | Drawing for Communication |
| GRDSN | | PhotoShop I |
| GKD3IN | 1/2 | Total |
| Third Q | | |
| ENG | uaru 105 | Pro/Tech: Basic Writing |
| GBUS | 103 | Math Skills for Business |
| GRDSN | | Design Process III |
| GRDSN | | Design Technology III |
| GRDSN | | Design Projects III |
| GRDSN | 124 | Design Lab III |
| GRDSN | 125 | Computer Drawing |
| | | Total |
| SECON | D YE | AR |
| Fourth | | |
| GENST | - | Applied Critical Thinking |
| GRDSN | | Web Production |
| GRDSN | 167 | Fireworks |
| GRDSN | 171 | Flash |
| GRDSN | 238 | 3-D Modeling and Animation I |
| IS | 143 | Operating System Fundamentals |
| IS | 210 | Internet Programming I |
| | | Total |

| Fifth Quarte | er |
|---------------------|---|
| GRDSN 215 | Web Process V |
| GRDSN 216 | Web Technology V |
| GRDSN 217 | Web Projects V |
| GRDSN 218 | Web Lab V |
| GRDSN 235 | Multimedia Technology I |
| HS 136 | Improving Interpersonal Communication5 |
| | Total |
| Sixth Quart | er |
| GRDSN 225 | Web Process VI |
| GRDSN 226 | Web Projects VI |
| GRDSN 227 | Web LabVI |
| GRDSN 266 | Cooperative Education Seminar |
| GRDSN 267 | Cooperative Education Work Experience 3-5 |
| | Elective ¹ |
| | Total 14-18 |
| 101 10E and | its and magnined for an A. A. C. dagnes |

101-105 credits are required for an A.A.S. degree.

¹ See department for listing of approved electives.

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.

First Quarter

| - | | | |
|--------------|------|--|-----|
| APLED | 121 | Applied Written Communication ¹ | |
| WELD | 113 | Welding Math | |
| WELD | 114 | Introduction to Blueprint Reading | |
| WELD | 115 | Introduction to Fabrication | |
| WELD | 116 | Shielded Metal Arc Welding Theory | |
| WELD | 117 | Shielded Metal Arc Welding Applications | . 7 |
| | | Total | 20 |
| Second | Qua | rter | |
| APLED | 125 | Employment Preparation ¹ | . 3 |
| WELD | 123 | Intermediate Blueprint Reading | . 2 |
| WELD | 124 | Advanced Shielded Metal Arc Welding Theory | . 2 |
| WELD | 125 | Advanced Shielded Metal Arc Welding Applications . | |
| WELD | 126 | Intermediate Fabrication | . 5 |
| | | Total | 18 |
| Third Q | uart | er | |
| ISFTY | 111 | Industrial First Aid | . 2 |
| WELD | 133 | Advanced Blueprint Reading | . 2 |
| WELD | 134 | Specialty Welding Theory | |
| WELD | 135 | Specialty Welding Applications | |
| WELD | 136 | Advanced Fabrication | . 2 |
| | | Total | 18 |
| | | | |

56 credits are required for a certificate.

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