

**AUDIO 217**  
**SYSTEM SETUP AND MAINTENANCE**  
**COURSE OUTLINE**

- I. **Digital audio/MIDI system components**
  - A. **Identifying individual hardware components and their functions.**
  - B. **Software and compatibility issues**
  
- II. **Desktop computer bus systems internal and external**
  - A. **SCSI**
  - B. **USB**
  - C. **Firewire**
  - D. **PCI**
  - E. **PCI express**
  
- III. **Hardware connection types**
  - A. **Digital audio interconnection standards**
    - 1. **AES/EBU**
    - 2. **S/PIDIF**
    - 3. **ADAT lightpipe**
    - 4. **USB**
    - 5. **Firewire**
    - 6. **PCI**
  - B. **MIDI connections**
  - C. **Word clock connections**
  
- IV. **Configuring software applications**
  - A. **MIDI yokes**
  - B. **Audio/MIDI drivers**
  - C. **Configuring plug-ins**
  - D. **System optimization**
  
- V. **Component synchronization**
  - A. **Word clock**
  - B. **SMPTE**
  - C. **MTC**
  
- VI. **Troubleshooting MIDI problems.**
  
- VII. **Troubleshooting Audio problems.**
  
- VIII. **The combination digital/analog studio and it problems**
  
- IX. **Troubleshooting Studio equipment synchronization problems.**

#### WORKLOAD EXPECTATION STATEMENT

The average student will spend 33 hours in classroom lecture. The student is also expected to spend approximately 66 hours studying written materials in preparation for classes, labs, exams and other forms of student learning evaluation.