RECORDING TECHNOLOGY
(REC)

REC 100
Survey of Entertainment Technology
4 Units (AA/AS; CSU)
72 lecture hours
Grade Mode: Standard Letter
Strongly recommended: ENGL 101.
This course is an introduction to conventional and online entertainment technology. Includes exploring the content and creation of recorded music, television, radio, live theatre, film, video and electronic gaming: lecture, demonstration, field trips and guest professionals; media creation.

REC 102
Record Production Basics
4 Units (AA/AS; CSU)
36 lecture hours, 108 lab hours
Grade Mode: Standard Letter
This is a course in the study and implementation of production techniques for the music industry. Students will develop a selected project from an initial concept to a finished product.

REC 103
Introduction to Audio Engineering
4 Units (AA/AS; CSU)
54 lecture hours, 54 lab hours
Grade Mode: Pass/No Pass
Strongly recommended: ENGL 101.
This course is an introduction to the current technology, terminology and techniques used in audio engineering for recorded music, video and online media. Includes the history of audio, basic audio electronics, microphones, consoles, computer-based production systems and related signal processors.

REC 105
Fundamentals of Audio Technology
4 Units (AA/AS; CSU)
54 lecture hours, 72 lab hours
Grade Mode: Standard Letter
Prerequisite(s): REC 100, 103, 140.
This course is an introduction to audio technologies and recording techniques. Units include computer basics for audio production, the production console, microphones, digital recording systems, signal processing, studio techniques.

REC 106
Introduction to Touring Technology
4 Units (AA/AS)
54 lecture hours, 54 lab hours
Grade Mode: Pass/No Pass, Standard Letter
A course designed for musicians to prepare concerts, touring for concerts and other special events with recording arts technology needs. Audio basics, lighting basics, communications, touring and safety are covered.

REC 115
Recording Studio Workshop I
4 Units (AA/AS; CSU)
54 lecture hours, 72 lab hours
Grade Mode: Standard Letter
Prerequisite(s): REC 100, 103, 140.
This applied workshop course provides an introduction to basic audio hardware, software and recording techniques. Units include digital audio workstation set-up and operation, basic microphone techniques, software and hardware-based recording and mixing.

REC 125
Digital Audio Technology I
3 Units (AA/AS; CSU)
54 lecture hours, 36 lab hours
Grade Mode: Standard Letter
Prerequisite(s): REC 100, 103, 140.
Strongly recommended: SPCH 100 or have passed a Multiple Measures Skills assessment.
This course is the study and implementation of MIDI technology in the audio recording industry. The course covers standard software sequencers, controllers, modules, soft-synths and applications of the technology in the industry.

REC 135
Live Sound Reinforcement
4 Units (AA/AS; CSU)
54 lecture hours, 72 lab hours
Grade Mode: Standard Letter
Co-Requisite(s): REC 105 or THEA 120.
This course focuses on the essential elements of sound reinforcement: acoustics, sound equipment and mixing techniques. Major subject areas are acoustics, microphones, live sound consoles, speakers, placement, mixing and the cumulative effects to the final sonic product.

REC 140
Music Theory for Engineers
3 Units (AA/AS; CSU)
54 lecture hours
Grade Mode: Standard Letter
An introductory course in music theory for the Recording Technology major. A study of the elements of music including melody, rhythm, chords, musical forms, and related concepts. Music notation, terminology and score reading are emphasized.

REC 145
Critical Listening Skills for Engineers
3 Units (AA/AS; CSU)
54 lecture hours
Grade Mode: Standard Letter
Prerequisite(s): REC 100, 103, 140, and have passed a Multiple Measures Skills assessment.
Co-Requisite(s): REC 105, 115, 125, 135.
A course in aural skills development for recording engineers. This class will focus on music, acoustic and electronic timbres, general instrument ranges and sonic properties, blend, balance, equalization, panning, reverb, compression, limiting and other tools used in the recording process.
REC 205
Advanced Audio Technology
4 Units (AA/AS; CSU)
54 lecture hours, 72 lab hours
Grade Mode: Standard Letter
Prerequisite(s): REC 105, 115, 125, 135, 145.
Co-Requisite(s): REC 215, 225, 235, 245.
This course is an advanced study of new technologies and techniques in
multi-track recording, editing and mixing, as well as surround recording
and mixing for post-production.

REC 215
Recording Studio Workshop II
4 Units (AA/AS; CSU)
54 lecture hours, 72 lab hours
Grade Mode: Standard Letter
Prerequisite(s): REC 105, 115, 125, 135, 145.
Co-Requisite(s): REC 205, 225, 235, 245.
This course is a project-based course intended to solidify the core
principles of audio. Projects will include recording, mixing and mastering,
post-production and surround mixing techniques.

REC 225
Digital Audio Technology II
4 Units (AA/AS; CSU)
54 lecture hours, 72 lab hours
Grade Mode: Standard Letter
Prerequisite(s): REC 105, 115, 125, 135, 145.
Co-Requisite(s): REC 205, 215, 235, 245.
This course focuses on the detailed workings of digital audio
workstations as a whole, and specifically on the ProTools platform. This
is a detailed class in all aspects of digital audio inclusive of tracking,
mixing, troubleshooting, and plug-ins.

REC 235
Acoustics for Engineers
3 Units (AA/AS; CSU)
54 lecture hours
Grade Mode: Standard Letter
Prerequisite(s): REC 105, 115, 125, 135, 145.
Co-Requisite(s): REC 205, 215, 225, 245.
This course is a study of Acoustics principles and the physics of
sound. It includes sound propagation, hearing and sound perception,
room resonances, acoustic calculations, studio design and acoustical
treatments.

REC 245
Music Business/ Audio Careers
3 Units (AA/AS; CSU)
54 lecture hours
Grade Mode: Standard Letter
Prerequisite(s): REC 105, 115, 125, 135, 145.
Co-Requisite(s): REC 205, 215, 225, 235.
This is a survey focusing on the practices and procedures of record
companies, publishing companies, performing rights societies, and
unions. The course will also study the processes of record and film
production, as well as, career opportunities in these fields. Also includes
an introduction to further courses of study in a targeted audio field.

REC 255
Live Sound Workshop
4 Units (AA/AS; CSU)
54 lecture hours, 72 lab hours
Grade Mode: Standard Letter
Prerequisite(s): REC 135.
Strongly recommended: ENGL 101.
This course focuses on further concepts in sound reinforcement; mixing
skills, system troubleshooting, sound system design for different types of
venues, audio editing for live applications and live recording.