

A.F.A. Music.

C. Course transferability: Although this course has not yet been posted for transfer evaluation by njtransfer.org website, Audio Production will most likely transfer to most four-year Universities as an elective in the Arts or as a free elective.

V. Outline of Course Content

- A. Introduction to acoustics
 - 1. Frequency
 - 2. Amplitude
 - 3. Wavelength
- B. Digital audio
 - 1. Sampling Rate
 - 2. Bit Depth
 - 3. Nyquist theorem
- C. Microphones
 - 1. Mic elements (condenser, dynamic, ribbon)
 - 2. Pick-up patterns
 - 3. Special purpose microphones
 - 4. Phantom power
 - 5. Mic accessories
- D. Recording
 - 1. Studio vs. field recording
 - 2. Concerns for film, music, and radio
- E. Mixing
 - 1. Equalization
 - 2. Compression
 - 3. Reverb
 - 4. Outboard effects
 - 5. Correcting errors made during recording
- F. Mastering
 - 1. Preparing audio for various media

VI. Educational Goals and Learning Outcomes

A. Educational Goals

Students will:

- 1. utilize industry-standard audio software and hardware (GE-RVCC 3; NJ 4)
- 2. create complex spatialized multi-track recordings (GE-RVCC 1,2,3; NJ 4)
- 3. produce mixed audio content for film, music, web, and radio (GE-RVCC 1, 3; NJ 4, 6)
- 4. increase their ability to analyze what they are hearing (NJ 6)
- 5. critique one's own work and classmates' work using critical analysis and constructive comments. (GE-RVCC 2; NJ 1,6)

B. Learning Outcomes

Upon completion of this course, the student will be able to:

- 1. list key principles and techniques used in audio production.
- 2. choose the correct microphone for a recording situation

3. apply acoustic theory while setting up a session in order to create an optimal recording
4. mix a multi-track recording using industry standard software for a variety of media
5. create audio CDs, MP3s, DVD-audio, and audio for video

VII. Modes of Teaching and Learning

- A. Lecture/discussion
- B. Listening sessions
- C. Readings
- D. Tutorials
- E. Group projects
- F. Studio work time
- G. Class critiques

VIII. Papers, Examinations, and other Assessment Instruments

- A. Recording projects
- B. Written Essays/Responses
- C. Exercises
- D. Exams
- E. Quizzes
- F. Discussions
- G. Critiques

IX. Grade Determinants

- A. Recording projects
- B. Written Essays/Responses
- C. Quizzes
- D. Critiques
- E. Studio Participation

X. Text and Materials

Suggested Textbook: Alten, Stanley. *Audio in Media (8th edition)*. Wadsworth Publishing. 2007

Information is disseminated through the following means:

- A. Web sites
- B. Tutorials
- C. Readings
- D. College web portal

(Please Note: The course outline is intended only as a guide to course content and resources. Do not purchase textbooks based on this outline. The RVCC Bookstore is the sole resource for the most up-to-date information about textbooks.)

XI. Resources

- A. Computer stations with current sound-editing software, in a studio such as A09B
- B. One computer with multi-track recording hardware
- C. Microphones
- D. Portable audio recorder
- E. Recording accessories (mic stands, cables, pop filters, etc.)