FTMA M140: BEGINNING AUDIO PRODUCTION

Originator
clarson

Co-Contributor(s)

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College
Moorpark College

Discipline (CB01A)
FTMA - Film, Television, Media Arts

Course Number (CB01B)
M140

Course Title (CB02)
Beginning Audio Production

Banner/Short Title
Beginning Audio Production

Credit Type
Credit

Start Term
Fall 2023

Formerly
RT M07A - Audio Production
FTVM M40 - Beginning Audio Production

Catalog Course Description
Introduces the theory and practice of audio production for radio, television, film and digital recording applications. Focuses on the fundamentals of sound design and aesthetics, microphone use, and digital recording equipment. Provides hands-on experience recording, editing, mixing and mastering audio.

Taxonomy of Programs (TOP) Code (CB03)
0604.00 - *Radio and Television

Course Credit Status (CB04)
D (Credit - Degree Applicable)

Course Transfer Status (CB05) (select one only)
B (Transferable to CSU only)

Course Basic Skills Status (CB08)
N - The Course is Not a Basic Skills Course

SAM Priority Code (CB09)
C - Clearly Occupational

Course Cooperative Work Experience Education Status (CB10)
N - Is Not Part of a Cooperative Work Experience Education Program

Course Classification Status (CB11)
Y - Credit Course

Educational Assistance Class Instruction (Approved Special Class) (CB13)
N - The Course is Not an Approved Special Class

Course Prior to Transfer Level (CB21)
Y - Not Applicable

Course Noncredit Category (CB22)
Y - Credit Course

Funding Agency Category (CB23)
Y - Not Applicable (Funding Not Used)

Course Program Status (CB24)
1 - Program Applicable

General Education Status (CB25)
Y - Not Applicable

Support Course Status (CB26)
N - Course is not a support course

Field trips
Will not be required

Grading method
(L) Letter Graded

Alternate grading methods
(O) Student Option- Letter/Pass
(P) Pass/No Pass Grading

Does this course require an instructional materials fee?
No

Repeatable for Credit
No

Is this course part of a family?
No

Units and Hours

Carnegie Unit Override
No

In-Class

Lecture
Minimum Contact/In-Class Lecture Hours
35
Maximum Contact/In-Class Lecture Hours
35

Activity
Minimum Contact/In-Class Activity Hours
0

Maximum Contact/In-Class Activity Hours
0

Laboratory
Minimum Contact/In-Class Laboratory Hours
52.5
Maximum Contact/In-Class Laboratory Hours
52.5

Total in-Class

Total in-Class
Total Minimum Contact/In-Class Hours
87.5
Total Maximum Contact/In-Class Hours
87.5

Outside-of-Class

Internship/Cooperative Work Experience

Paid
Minimum Paid Internship/Cooperative Work Experience Hours
0
Maximum Paid Internship/Cooperative Work Experience Hours
0

Unpaid
Minimum Unpaid Internship/Cooperative Work Experience Hours
0
Maximum Unpaid Internship/Cooperative Work Experience Hours
0

Total Outside-of-Class

Total Outside-of-Class
Minimum Outside-of-Class Hours
70
Maximum Outside-of-Class Hours
70

Total Student Learning

Total Student Learning
Total Minimum Student Learning Hours
157.5
Total Maximum Student Learning Hours
157.5

Minimum Units (CB07)
3
Maximum Units (CB06)
3

Student Learning Outcomes (CSLOs)

	Upon satisfactory completion of the course, students will be able to:
1	create quality audio recordings using current and evolving technologies.
2	demonstrate correct microphone placement in studio and location recordings.

Course Objectives

	Upon satisfactory completion of the course, students will be able to:
1	recognize basic physics of sound terminology: the sound wave, frequency/pitch, amplitude/loudness, phase, and timbre.
2	comprehend acoustics; microphone classification, placement and use; theory and practical use of consoles, computers and software; analog/digital recording and storage devices; patching; editing; time code; signal processors; loudspeakers.
3	perform complex audio production techniques.
4	describe audio production software interface.
5	demonstrate refined techniques for audio production using appropriate audio software.
6	differentiate audio used in studio and on-location production for radio, television and film.
7	create sound effects and original sound clips for dynamic media.
8	collect, create, analyze, and evaluate digital audio clips.
9	identify audio processes for voice recording, multimedia production, and sound design.
10	outline the basic process for digitizing audio clips.
11	complete applied projects to assess the student's knowledge of recording, editing, mixing, and balancing.
12	evaluate and conduct both destructive and nondestructive waveform editing procedures.

Course Content

Lecture/Course Content
- **15% - Overview of Digital Audio**
  - Pre-production
  - Production
  - Post-production
  - Multi-track linear editing
  - Nonlinear editing
- **15% - Audio integration**
  - Processes
  - Cross platform editing
- **15% - Soundtrack**
  - Manipulation
  - Exploration of the audio toolkit in appropriate editing software
- **15% - Overview of Audio Design**
  - Music
  - Sound effects.
  - Ambient and natural sound
- **15% - Overview of Recording Techniques**
  - Repair and restoration in the mix
- **15% - Signal Processing**
  - Digital input options
  - Output options
- **10% Importance of representation in writing copy for the medium**
  - Developing content in relation to social justice, race/ethnicity, gender, class, sexual orientation, and ability.

Laboratory or Activity Content
- **25% - Media Sound Design for Broadcast TV and Radio**
- **25% - Media Sound Design for Audio and Video Streaming**

- **25% - Media Sound Design for Live Productions and Events**
- **25% - Media Sound Design for Feature Films**

Methods of Evaluation

Which of these methods will students use to demonstrate proficiency in the subject matter of this course? (Check all that apply):

Written expression
Skills demonstrations

Methods of Evaluation may include, but are not limited to, the following typical classroom assessment techniques/required assignments (check as many as are deemed appropriate):

Essay exams
Film/video productions
Group projects
Individual projects
Laboratory activities
Objective exams
Oral analysis/critiques
Oral presentations
Problem-solving exams
Quizzes
Reports/papers
Research papers
Skills demonstrations
Classroom Discussion
Projects
Participation
Reports/Papers/Journals

Instructional Methodology

Specify the methods of instruction that may be employed in this course

Audio-visual presentations
Class activities
Class discussions
Collaborative group work
Demonstrations
Distance Education
Field trips
Group discussions
Guest speakers
Instructor-guided interpretation and analysis
Instructor-guided use of technology
Lecture

Describe specific examples of the methods the instructor will use:

- Demonstrate the functionality and the limitation of operating a boom and shotgun with written tutorials providing step by-step project guidelines.
- Lead group discussions and use inclusive PowerPoint presentations to explain concepts of this course.

Representative Course Assignments

Writing Assignments
- Prepare a survey for the remote broadcast of a live event.
- Research on the Internet and write a report detailing the different characteristics of several microphones.
- Compare and contrast digital and analog reproduction of sound.

Critical Thinking Assignments
- Critique student projects for various audio characteristics.
- Research a public media organization that nurtures diverse storytellers that present a wide range of perspectives such as: Black Public Media, Center for Asian American Media, Firelight Media, Latino Public Broadcasting or Firelight Media. What is the focus of this organization and how does it engage in practices that broaden the diversity of the medium?

- Create an audio breakdown and flowchart for a single camera production.
- Make a signal flow diagram of the main circuits of a console.

Reading Assignments
- Read a radio script and explain what elements conform with "writing for the ear."
- Read about the techniques of capturing sound on a feature film.

Skills Demonstrations
- Record a two-person dialogue scene using a shotgun and boom.
- Blend several inputs into a mixing board.

Outside Assignments

Representative Outside Assignments
- Watch an interview, news, or other talk show of the student's choice; draw a microphone plot of what is seen.
- Listen to scenes from a film and describe the audio elements that were used.
- Analyze the sounds at a location of the student's choice, listing as many different sounds as possible; estimate the spatial relationships of the sounds based on amplitude, reverberation, and spectrum.

Articulation

Equivalent Courses at 4 year institutions

University	Course ID	Course Title	Units
CSU Fullerton	CTVA 210	Audio Production for Non-Production Track	3
CSU Northridge	CTVA 230	Fundamentals of Audio Production	3
CSU Sacramento	COMS 25A & 20B	Audio Production & Audio Production Laboratory	2 & 1

Comparable Courses within the VCCCD

TV R110 - Introduction to Audio
FTVE R120 - Beginning Audio Production

Equivalent Courses at other CCCs

College	Course ID	Course Title	Units
Glendale Community College	MEDIA 107	Introduction to Audio Production	3
Antelope Valley College	FTV 241	Beginning Audio Production	3
Santa Ana College	DM 152	Beginning Audio Production	3

District General Education

A. Natural Sciences

B. Social and Behavioral Sciences

C. Humanities

D. Language and Rationality

E. Health and Physical Education/Kinesiology

F. Ethnic Studies/Gender Studies

Course is CSU transferable
Yes

CSU Baccalaureate List effective term:
F1995

CSU GE-Breadth

Area A: English Language Communication and Critical Thinking

Area B: Scientific Inquiry and Quantitative Reasoning

Area C: Arts and Humanities

Area D: Social Sciences

Area E: Lifelong Learning and Self-Development

Area F: Ethnic Studies

CSU Graduation Requirement in U.S. History, Constitution and American Ideals:

UC TCA

UC TCA
Proposed

Date Proposed:
6/15/2023

IGETC

Area 1: English Communication

Area 2A: Mathematical Concepts & Quantitative Reasoning

Area 3: Arts and Humanities

Area 4: Social and Behavioral Sciences

Area 5: Physical and Biological Sciences

Area 6: Languages Other than English (LOTE)

Textbooks and Lab Manuals

Resource Type
Textbook

Description
Izhaki, Roey. *Mixing Audio: Concepts, Practices, Tools.* 3rd ed., Routledge, 2017.

Resource Type
Textbook

Description
Alten, Stanley. *Audio in Media.* 10th ed., Wadsworth, 2013.

Resource Type
Textbook

Description

Pohlmann, Ken. *Principles of Digital Audio.* 6th ed., McGraw-Hill, 2010.

Resource Type

Textbook

Description

Huber, David M. and Robert Runstein. *Modern Recording Techniques.* 9th ed., Routledge, 2018.

Resource Type

Textbook

Classic Textbook

Yes

Description

Owsinski, Bobby. *The Mixing Engineer's Handbook.* 5th ed., Bobby Owsinski Media Group, 2022.

Library Resources

Assignments requiring library resources

Research, using the Library's print and online resources, for a report on such topics as digital audio recording and mixing as applied to video production.

Sufficient Library Resources exist

Yes

Example of Assignments Requiring Library Resources

Research and write a paper comparing and contrasting types of sound that can be found in a film.

Distance Education Addendum

Definitions

Distance Education Modalities

Hybrid (1%–50% online)
Hybrid (51%–99% online)
100% online

Faculty Certifications

Faculty assigned to teach Hybrid or Fully Online sections of this course will receive training in how to satisfy the Federal and state regulations governing regular effective/substantive contact for distance education. The training will include common elements in the district-supported learning management system (LMS), online teaching methods, regular effective/substantive contact, and best practices.

Yes

Faculty assigned to teach Hybrid or Fully Online sections of this course will meet with the EAC Alternate Media Specialist to ensure that the course content meets the required Federal and state accessibility standards for access by students with disabilities. Common areas for discussion include accessibility of PDF files, images, captioning of videos, Power Point presentations, math and scientific notation, and ensuring the use of style mark-up in Word documents.

Yes

Regular Effective/Substantive Contact

Hybrid (1%–50% online) Modality:

Method of Instruction	Document typical activities or assignments for each method of instruction
Asynchronous Dialog (e.g., discussion board)	Discussion Forums will be used to disseminate coursewide information and facilitate ongoing collaborative course work. Students may also use the Discussion Forums to solicit help from the instructor and other students. Discussions may also be graded encouraging students to participate in the class.
E-mail	Email is a tool primarily used for course-wide updates and individual student contact. Students and the instructor can privately contact each other with questions, concerns.
Synchronous Dialog (e.g., online chat)	The instructor can provide text, presentation slides, audio/visual material, assignment examples, tutorials (which may be live or recorded), and links to supplemental publications, articles, and websites.

Hybrid (51%–99% online) Modality:

Method of Instruction	Document typical activities or assignments for each method of instruction
Asynchronous Dialog (e.g., discussion board)	Discussion Forums will be used to disseminate coursewide information and facilitate ongoing collaborative course work. Students may also use the Discussion Forums to solicit help from the instructor and other students. Discussions may also be graded encouraging students to participate in the class.
E-mail	Email is a tool primarily used for course-wide updates and individual student contact. Students and the instructor can privately contact each other with questions, concerns.
Synchronous Dialog (e.g., online chat)	The instructor can provide text, presentation slides, audio/visual material, assignment examples, tutorials (which may be live or recorded), and links to supplemental publications, articles, and websites.

100% online Modality:

Method of Instruction	Document typical activities or assignments for each method of instruction
Asynchronous Dialog (e.g., discussion board)	Discussion Forums will be used to disseminate coursewide information and facilitate ongoing collaborative course work. Students may also use the Discussion Forums to solicit help from the instructor and other students. Discussions may also be graded encouraging students to participate in the class.
E-mail	Email is a tool primarily used for course-wide updates and individual student contact. Students and the instructor can privately contact each other with questions, concerns.
Other DE (e.g., recorded lectures)	The instructor can provide text, presentation slides, audio/visual material, assignment examples, tutorials (which may be live or recorded), and links to supplemental publications, articles, and websites.

Examinations

Hybrid (1%–50% online) Modality

On campus
Online

Hybrid (51%–99% online) Modality

On campus
Online

Primary Minimum Qualification
MEDIA PROD/BROADCASTING TECH

Review and Approval Dates

Department Chair
02/03/2023

Dean
02/06/2023

Technical Review
02/16/2023

Curriculum Committee
2/21/2023

DTRW-I
MM/DD/YYYY

Curriculum Committee
MM/DD/YYYY

Board
MM/DD/YYYY

CCCCO
MM/DD/YYYY

Control Number
CCC000429829

DOE/accreditation approval date
MM/DD/YYYY