



COURSE OUTLINE : MEDIA 107
D Credit – Degree Applicable
COURSE ID 001162
Cyclical Review: September 2020

COURSE DISCIPLINE : MEDIA
COURSE NUMBER : 107
COURSE TITLE (FULL) : Introduction To Audio Production
COURSE TITLE (SHORT) : Intro To Audio Production

CATALOG DESCRIPTION

MEDIA 107 teaches students the basic principles, aesthetics, and techniques required in the production of audio programs and soundtracks for video programs. Specific topics include digital recording and editing, selection and use of microphones, sound studio operation, multi-tracking, equalization, compression, mixing, editing, and synchronization with video. Industry standard software such as Pro Tools will be utilized. Hands-on practice with professional equipment is emphasized.

Total Lecture Units: 1.50

Total Laboratory Units: 1.50

Total Course Units: 3.00

Total Lecture Hours: 27.00

Total Laboratory Hours: 81.00

Total Laboratory Hours To Be Arranged: 0.00

Total Contact Hours: 108.00

Total Out-of-Class Hours: 54.00

Prerequisite: None.



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ENTRY STANDARDS

	Subject	Number	Title	Description	Include
1				Speak, listen, read, write, and converse in English;	Yes
2				operate a personal computer including opening and saving files.	Yes

EXIT STANDARDS

- 1 Describe basic acoustic principles and terminology, i.e., frequency, amplitude, vibration, waveform;
- 2 operate basic audio equipment such as microphones, mixers, digital audio workstations, recorders, amplifiers and speaker systems;
- 3 explain digital audio principles, file types, and compression methods;
- 4 perform multi-track audio recording and editing within the Pro Tools application;
- 5 write audio production scripts and cue sheets;
- 6 create and record live sound effects;
- 7 analyze production values of professionally produced programs.

STUDENT LEARNING OUTCOMES

- 1 operate equipment required to produce audio content for media, video or podcasts
- 2 create a synthesis of narration, dialog, music and sound effects in audio editing assignments

COURSE CONTENT WITH INSTRUCTIONAL HOURS

	Description	Lecture	Lab	Total Hours
1	Principles of Audio <ul style="list-style-type: none"> • Sound waves • Frequency and pitch • Amplitude and loudness • Digital and analog audio • Noise and distortion • Acoustics and psychoacoustics • Phase • Two-channel stereo • Surround sound and mid/side (M/S) stereo 	5	13	18
2	Recording Equipment and Facilities <ul style="list-style-type: none"> • Production and performance studios • Digital audio workstations and software • Mixing consoles • Microphone selection • Turntables and compact disc (CD) players • Audio monitor loudspeakers • Equalizers • Dynamic compressors and limiters 	4	11	15



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3	Preproduction Planning and Design • Relation of sound to picture • Selection of production sites • Selection of equipment • Relative functions of voice, music, effects and silence • Use of prerecorded material	4	11	15
4	Production Techniques Lecture • Miking and recording speech • Miking and recording music • Miking and recording sound effects • ADR or looping dialog • Sound effects • Pre-recorded effects • “Wild” effects recording • Foley effects recording • On-location recording	5	16	21
5	Audio Recording and Editing with Pro Tools • Session creation and digital settings • Track creation and recording • Signal routing and level adjustment • Destructive and non-destructive recording • Clip and region editing • Importing external audio • Automated features • Insert and AudioSuite effects • Mix-down and export techniques	9	30	39
				108

OUT OF CLASS ASSIGNMENTS

- 1 creation of scripts for two audio recording and mixing projects;
- 2 preparation of dialog script and sound effects spotting sheets for film scene audio sweetening project;
- 3 recording, mixing and editing of three audio projects, each reflecting an increased complexity and knowledge of the Pro Tools application.

METHODS OF EVALUATION

- 1 attendance and participation;
- 2 presentation of work in-progress to the instructor for formative evaluation;
- 3 peer and instructor critique of work;
- 4 production assignments;
- 5 final exam.



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METHODS OF INSTRUCTION

- Lecture
- Laboratory
- Studio
- Discussion
- Multimedia
- Tutorial
- Independent Study
- Collaboratory Learning
- Demonstration
- Field Activities (Trips)
- Guest Speakers
- Presentations

TEXTBOOKS

Title	Type	Publisher	Edition	Medium	Author	ISBN	Date
Producing Great Audio for Film and Video: Expert Tips from Preproduction to Final Mix.	Required	Focal Press	4	Print	Rose, Jay	9781138468788	2017