AUDIO DESIGN & DIGITAL PRODUCTION

CONTACT PHONE: (352) 294-2000	COURSE WEBSITE: DIGITALWORLDS.UFL.EDU/PROGRAMS/BA-IN-DAS/
	CONTACT EMAIL:TIM@DIGITALWORLDS.UFL.EDU
	TUES: 5PM-6PM THURS: 5PM-6PM
INSTRUCTOR: Tim Difato	OFFICE LOCATION/HOURS:
	TUES: 3-4:55PM, THURS: 4:05-4:55PM
	CLASS MEETING TIME(S):
SEMESTER/YEAR: FALL/2016	CLASS LOCATION: TUES: NRG 0205, THURS: NRG 0120
COURSE NUMBER: DIG 4255C	CREDIT HOURS: 3 HOURS

COURSE DESCRIPTION

Professional techniques for the creation of audio content for variety of applications in the digital arts and sciences. Software tools for conversion, storing, processing and retrieval of sound in a variety of digital formats. Fundamentals of loop-based audio design, sampling and work with an industry standard software with linear and interactive digital media.

PREREQUISITE KNOWLEDGE AND SKILLS

Junior-level DAS major or instructor permission.

PURPOSE OF COURSE

The purpose of this course to is give students a well-rounded understanding of Audio Design and Production Techniques.

COURSE GOALS AND/OR OBJECTIVES:

By the end of this course, students will be able to:

- 1. Articulate the history, technology and key terms of the audio industry.
- 2. Demonstrate proficiency using professional audio and sequencing software. (Pro Tools, Ableton)
- 3. Demonstrate a solid technical understanding of sound recording and processing.
- 4. Set up and operate an audio board and produce a full mix.
- 5. Communicate the impact of sound design with film. (Foley, 5.1 Mix, etc.)

COURSE SCHEDULE:

This 15-week course will have multiple assessments built-in, along with real world projects to allow students to develop mastery of the course material. The course will conclude with a final project and final exam which will show your practical knowledge of the various production techniques, as well as a mastery of the theoretical content. The final exam time for this course may differ from our normal class meeting time.

The final exam time scheduled for this course will be announced in advance of each semester by the University of Florida Registrar's Office at http://www.registrar.ufl.edu/soc/

Week	Topic	Assignments/Quizzes		
8/23	 How to listen? Listening exercise What is sound? How does sound affect us? Sound Media Relationships Psychoacoustics Overview of class. Syllabus iLok Student Verification 	 HW: Due next week 2nd class Send iLok Verification Purchase Pro Tools Software, Discussion Forum 1: 1 Paragraph and respond to at least 2 other student's comments exploring "Ways Sound Affects Us TED Talk." Give thoughtful responses. 		
8/25	Setting up Pro Tools,iLok install			
2	History of Sound Production/Recording:	HW: Due next week 2 nd class		
8/30	 Phonograph Recording to disc Analog Digital MIDI Etc. The Tools of Audio Engineering: General overview: Mixer Amplifier Transducer Speakers Microphone 	 Lynda: Watch Pro Tools 1 Listening Assignment 1 Take at least 30 good minutes and listen/document 5 sounds and 2 songs. Pick sounds and songs that are different from each other. Try to break apart the sound and songs and identify the items that make them. Share your documentation in the Discussion Forum 2 and comment on at least 2 other students posts. Give thoughtful responses. If you can, share the items you listened to through a web link if they are found on the internet. 		
3 9/6	DAW	 HW: Due next week 2nd class Pro Tools Assignment 1 – Setup a session. Pick a multi provided and setup the 		
	Pro Tools 1 - Intro	session.		

9/8	 Interface Navigation Arming a track, etc. Click track Bars/Beats/Measures Mixing Console Intensive Trim/Gain, EQ Auxiliary/FX sends Bussing Mute/Solo/Pan 	 Mix Down 1: Rough Track Bounce Track Provide constructive feedback to 2 other student's submitted work. Quiz 1
4	Microphones Intensive:	and .
9/13	 Microphones Styles Types Polar Patterns, Phantom Power, Pre-amps, 	 HW: Due next week 2nd class Pro Tools Assignment 2 – Mix Down 2 Introduce a full mix of your multi Use Panning, Levels, Gain, EQ, etc. Bounce Track Provide constructive feedback to 2 other student's submitted work.
9/15	Pro Tools 2 – Virtual Console and Filters	
5	Studio Recording/ Production: • Setup the Studio	HW: • Quiz 2
9/20	 DAC DAW DAI Snake/Patch Bays, Acoustics Recording Vocals 	
6	Studio Recording/ Production: • DI Box	HW: Due next week 2 nd class Pro Tools Assignment 3: Track Live Vocals
9/27	 Monitoring Instruments in the studio 	 Group Assignment: On Campus: Record your VO Online: Mix down the VO
9/29	Pro Tools Session: • Basic editing tools to trim	 Provide constructive feedback to 2 other group's submitted work.

7 10/4	Mid-Term Exam – On Campus: In Class (1 Hour) Online: OYOT (1 Hour)	
10/6	 Audio MIDI Recording VST Setting up MIDI Tracking Keys/Interfaces Quantize 	
8 10/11 10/13	Audio Post Production: • Editing your session • Editing your samples • Working with Regions • Selection Tool, Trim Tool, Hand Tool/Grab Tool • Looping • Automation • Volume • Cross Fade • Normalizing a track	 HW: Due next week 2nd class Pro Tools Assignment 4: Midi Assignment ○ Provide constructive feedback to 2 other student's submitted work.
9 10/18	Audio Post Production:	 HW: Due next week 2nd class Pro Tools Assignment 5: Edit your Multi down Trim down multi and bounce final using compression, gating, limiting, FX, etc. Provide constructive feedback to 2 other student's submitted work.
10 10/25	Uses of Live Audio Sequencing: • What is Sequencing • Uses of Ableton	HW: Due next week 2 nd class • Setup Ableton Trial

	Setup Ableton 1-month trial	
10/27	 Learn the UI Setting up DAI Samples Loops Beats Adding Effects 	
11	Ableton live performance with VST/AU	HW:
11/1	Setting up VST in Ableton Arming the Track	• Quiz 3
11/1	Arming the TrackSetting up MIDI Instrument	 Ableton Assignment 1 (Due next week 2nd class)
11/3	Setting up Wild instrument	 Setup your session with Samples and Loops Provide constructive feedback to 2 other student's submitted work.
12	Ableton in Live Shows	
11/8	 Routing Ableton to trigger for live show audio and scenes 	
11/10	Audio Design for FilmScores (Sound Tracks)Foley (Samples/Sound Effects)	
13	Audio Design for Film	HW: Due next week 2 nd class
		 Foley Assignment 1
11/15	Using Sound for Storytelling	o Groups:
	Using your Space/Environment Understanding your sound	Campus record 5 soundsOnline Record 5
	Understanding your soundRecording your samples	environments
	o How	Online/On Campus Edit
	With what	Students have choice to edit
11/17	o Props	in Audition or Pro Tools. Cannot edit in Ableton.
11/1/	Adobe Audition	 Provide constructive feedback to 2
	How to use the UI	other group's submitted work.
	• Edit a sample	·
14		HW:

11/22	Oiscuss Final Project	 Final Project – Pre-Production Work with your team through discussion forum. (Each group will have their own DF) Setup team roles, decide on film to apply SFX and score. Online must collect HQ SFX online and edit them to manageable quality On Campus must record at least 10-20 sounds.
11/24	HOLIDAY – Thanksgiving	
15		HW:
11/29	Studio Time to work on Foley recording and editing.	Work on Final project
12/1	Surround Sound mix • What is 5.1? • How to setup • In-class demo	
12/6	Final Exam	Final Exam on last day of class.
	Final Project Due	Final Project class viewing on exam day)

REQUIRED TEXTBOOKS AND SOFTWARE:

- 1. Lynda.com, Online Photoshop tutorial (FREE access for UF students)
- 2. Pro Tools (Monthly Subscription)
- 3. Adobe Audition
- 4. Ableton (Trial)
- 5. Sound Cloud Account (Free account)

RECOMMENDED MATERIALS:

- 1. The Foley Grail: The Art of Performing Sound for Film, Games and Animation 2nd edition by Vanessa Theme Ament
- 2. *Understanding Audio: Getting the Most out of your Project or Professional Recording Studio* by Daniel M. Thompson
- 3. Modern Recording Techniques 8th edition by David Miles Huber
- 4. SFX freesound.org
 - a. http://filmsound.org/sound-effects/libraries.htm
- 5. multi pack http://www.cambridge-mt.com/ms-mtk.htm
- 6. http://music.tutsplus.com/
- 7. http://www.musictheory.net/
- 8. http://www.soundonsound.com/

MATERIALS AND SUPPLIES FEES:

Material and supply fees are assessed for certain courses to offset the cost of materials or supply items consumed in the course of instruction. A list of <u>approved courses and fees</u> is published in the Schedule of Courses each semester. (UF-3.0374 Regulations of the University of Florida)

Material and supply and equipment use fee information is available from the academic departments or from the schedule of courses (Florida Statutes 1009.24). The total M&S for this class is \$54.26

EVALUATION OF GRADES

Assignment	Total Points	Percentage of Grade
Attendance/Participation/Quizzes	200	20%
Assignments/Projects	400	40%
Final Project	250	25%
Final Exam	150	15%
Total:	1000	100%

GRADING SCALE:

Letter Grade	% Equivalency	GPA Equivalency
Α	94 – 100%	4.0
A-	90 – 93%	3.67
B+	87 – 89%	3.33
В	84 – 86%	3.00
B-	80 – 83%	2.67
C+	77 – 79%	2.33
С	74 – 76%	2.00
C-	70 – 73%	1.67
D+	67 – 69%	1.33
D	64 – 66%	1.00
D-	60 – 63%	.67
E, I, NG, S-		0.00

U, WF		
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More information on grades and grading policies is here: https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx

COURSE POLICIES:

PARTICIPATION / ATTENDANCE POLICY

We value participation more than mere attendance. Each Instructor is responsible for communicating the specific details of what percentage of your grade (if any) will be assigned to participation, and how class participation will be measured and graded. Real Time [RT] interaction with your peers and the Instructor will empower you to greater achievement.

MAKE-UP POLICY

Presentations may not be presented late. Documented emergencies or medical situations may be the only accepted reasons for an excused absence on the day of a presentation.

COURSE TECHNOLOGY

The students will be required to have access to, and use a personal computer with the access to the Internet. Word editing software will be required for written assignments.

COURSE COMMUNICATIONS

Students can communicate directly with the Instructor regarding the course material through the course management system (CANVAS).

UF POLICIES:

UNIVERSITY HONESTY POLICY

UF students are bound by The Honor Pledge that states, "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." The Honor Code

(https://www.dso.ufl.edu/sccr/process/student-conducthonor-code/) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.

CLASS DEMEANOR

Students are expected to arrive to class on time and behave in a manner that is respectful to the instructor and to fellow students. Please avoid the use of cell phones and restrict eating to outside of the

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classroom. Opinions held by other students should be respected in discussion, and conversations that do not contribute to the discussion should be held at minimum, if at all.

STUDENTS REQUIRING ACCOMMODATIONS

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, www.dso.ufl.edu/drc/) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

NETIQUETTE COMMUNICATION COURTESY

All members of the class are expected to follow rules of common courtesy in all email messages, threaded discussions and chats, more information can be found at: http://teach.ufl.edu/wp-content/uploads/2012/08/NetiquetteGuideforOnlineCourses.pdf

VIDEO LECTURE CAPTURE

High-quality video lecture capture of this course is available only for enrolled students. These video captures are edited and posted within 24-48 hours of the class meeting for the benefit of the Your Own Time [YOT] students and to offer the potential for review by on-campus and Real Time [RT] on-line students. For the on-campus and RT students, watching lectures in lieu of attending and participating in class is NOT acceptable.

Your Instructor will provide you with this semester's login information during the first week of class. It is not permissible to share or distribute video login information to anyone other than officially enrolled students of this course. Lecture videos can be found at https://vimeo.com/digitalworlds.

ONLINE COURSE EVALUATIONS

Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at https://evaluations.ufl.edu. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at https://evaluations.ufl.edu/results/.

CAMPUS RESOURCES

HEALTH AND WELLNESS

U Matter, We Care

If you or a friend is in distress, please contact <u>umatter@ufl.edu</u> or 352 392- 1575 so that a team member can reach out to the student.

Counseling and Wellness Center

http://www.counseling.ufl.edu/cwc/Default.aspx, 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.

Sexual Assault Recovery Services (SARS)

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Student Health Care Center, 392-1161.

University Police Department, 392-1111 (or 9-1-1 for emergencies). http://www.police.ufl.edu/

ACADEMIC RESOURCES

E-learning technical support, 352-392-4357 (select option 2) or e-mail to Learning-support@ufl.edu. https://lss.at.ufl.edu/help.shtml.

Career Resource Center, Reitz Union, 392-1601. Career assistance and counseling. http://www.crc.ufl.edu/

Library Support, http://cms.uflib.ufl.edu/ask. Various ways to receive assistance with respect to using the libraries or finding resources.

Teaching Center, Broward Hall, 392-2010 or 392-6420. General study skills and tutoring. http://teachingcenter.ufl.edu/

Writing Studio, 302 Tigert Hall, 846-1138. Help brainstorming, formatting, and writing papers. http://writing.ufl.edu/writing-studio/

Student Complaints Campus:

https://www.dso.ufl.edu/documents/UF Complaints policy.pdf

On-Line Students Complaints:

http://www.distance.ufl.edu/student-complaint-process

Disclaimer: This syllabus represents the instructor's current plans and objectives. As we go through the semester, those plans may need to change to enhance the class learning opportunity. Such changes, communicated clearly, are not unusual and should be expected.