

AUDIO DESIGN & DIGITAL PRODUCTION

COURSE NUMBER: DIG 6256C	CREDIT HOURS: 3 HOURS
SEMESTER/YEAR: FALL/2017	CLASS LOCATION: TUES: PICT, THURS: PICT
	CLASS MEETING TIME(S): TUES: 3-4:55PM, THURS: 4:05-4:55PM
INSTRUCTOR: Tim Difato	OFFICE LOCATION/HOURS: TBD
	CONTACT EMAIL: TIM@DIGITALWORLDS.UFL.EDU
CONTACT PHONE: (352) 294-2000	COURSE WEBSITE: HTTP://DIGITALWORLDS.UFL.EDU/PROGRAMS/MA-IN-DIGITAL-ARTS-SCIENCES/

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

Graduate student status 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
<p>1</p> <p>8/22</p> <p>8/24</p>	<ul style="list-style-type: none"> • How to listen? <ul style="list-style-type: none"> ○ Listening exercise • What is sound? • How does sound affect us? • Sound Media Relationships • Psychoacoustics • Overview of class. • Syllabus • iLok Student Verification • Setting up Pro Tools, • iLok install 	<p>HW: Due next week 2nd class</p> <ol style="list-style-type: none"> 1. Project 1: Software Setup 2. Discussion Forum 1: Sound Affects Us
<p>2</p> <p>8/29</p> <p>9/31</p>	<p>History of Sound Production/Recording:</p> <ul style="list-style-type: none"> • Phonograph • Recording to disc • Analog • Digital • MIDI • Etc. <p>The Tools of Audio Engineering: General overview:</p> <ul style="list-style-type: none"> • Mixer • Amplifier • Transducer <ul style="list-style-type: none"> ○ Speakers ○ Microphone 	<p>HW: Due next week 2nd class</p> <ol style="list-style-type: none"> 1. Discussion Forum 2: Listening
<p>3</p> <p>9/5</p>	<p>DAW</p> <p>Pro Tools 1 - Intro</p>	<p>HW: Due next week 2nd class</p> <ol style="list-style-type: none"> 1. Project 2: Setup your Session 2. Quiz 1

<p>9/7</p>	<ul style="list-style-type: none"> • Interface • Navigation • Arming a track, etc. • Click track <ul style="list-style-type: none"> ○ Bars/Beats/Measures <p>Mixing Console Intensive</p> <ol style="list-style-type: none"> 1. Trim/Gain, 2. EQ 3. Auxiliary/FX sends 4. Bussing 5. Mute/Solo/Pan 	
<p>4 9/12 9/14</p>	<p>Microphones Intensive:</p> <ul style="list-style-type: none"> • Microphones Styles • Types • Polar Patterns, • Phantom Power, • Pre-amps, <p>Pro Tools 2 – Virtual Console and Filters</p>	<p>HW: Due next week 2nd class</p> <p>1. Project 3: Pro Tools Mix 2</p>
<p>5 9/19 9/21</p>	<p>Studio Recording/ Production:</p> <ul style="list-style-type: none"> • Setup the Studio • DAC • DAW • DAI • Snake/Patch Bays, • Acoustics • Recording Vocals 	<p>HW: Due next week 2nd class</p> <p>1. Quiz 2</p>
<p>6 9/26 9/28</p>	<p>Studio Recording/ Production:</p> <ul style="list-style-type: none"> • DI Box • Monitoring • Instruments in the studio <p>Pro Tools Session:</p> <ul style="list-style-type: none"> • Basic editing tools to trim 	<p>HW: Due next week 2nd class</p> <p>1. Project 4: Tracking</p>

<p>7 10/3</p> <p>10/5</p>	<p>Mid-Term Exam – 2. In Class (1 Hour)</p> <p>Audio MIDI Recording</p> <ul style="list-style-type: none"> 3. VST 4. Setting up MIDI 5. Tracking Keys/Interfaces 6. Quantize 	
<p>8 10/10</p> <p>10/12</p>	<p>Audio Post Production:</p> <ul style="list-style-type: none"> • Editing your session • Editing your samples <ul style="list-style-type: none"> ○ Working with Regions ○ Selection Tool, Trim Tool, Hand Tool/Grab Tool ○ Looping • Automation <ul style="list-style-type: none"> ○ Volume • Cross Fade • Normalizing a track 	<p>HW: Due next week 2nd class</p> <p>1. Project 5: Inserts</p>
<p>9 10/17</p> <p>10/19</p>	<p>Audio Post Production:</p> <ul style="list-style-type: none"> • Compression • Gating • Limiting • FX (Delay and Reverb) <p>Mastering</p> <ul style="list-style-type: none"> • Setting up Groups, Bus • Bouncing your Final 	<p>HW: Due next week 2nd class</p> <p>1. Project 6: Mix 3</p>
<p>10 10/24</p>	<p>Uses of Live Audio Sequencing:</p> <ul style="list-style-type: none"> • What is Sequencing • Uses of Ableton • Setup Ableton 1-month trial 	<p>HW: Due next week 2nd class</p> <p>1. Project 7: Ableton Setup</p>

10/26	<ul style="list-style-type: none"> • Learn the UI • Setting up DAI • Samples • Loops • Beats • Adding Effects 	
11 10/31 11/2	<p>Ableton live performance with VST/AU</p> <ul style="list-style-type: none"> • Setting up VST in Ableton • Arming the Track • Setting up MIDI Instrument 	<p><i>(Due next week 2nd class)</i></p> <p>HW:</p> <ol style="list-style-type: none"> 1. Quiz 3 2. Project 8: Ableton 1
12 11/7 11/9	<p>Ableton in Live Shows</p> <ul style="list-style-type: none"> • Routing Ableton to trigger for live show audio and scenes <p>Audio Design for Film</p> <ul style="list-style-type: none"> • Scores (Sound Tracks) • Foley (Samples/Sound Effects) 	
13 11/14 11/16	<p>Audio Design for Film</p> <ul style="list-style-type: none"> • Using Sound for Storytelling • Using your Space/Environment • Understanding your sound • Recording your samples <ul style="list-style-type: none"> ○ How ○ With what ○ Props <p>Adobe Audition</p> <ul style="list-style-type: none"> • How to use the UI • Edit a sample 	<p>HW: Due next week 2nd class</p> <ol style="list-style-type: none"> 1. Project 9: Foley 1
14 11/21	<p>Discuss Final Project</p> <ol style="list-style-type: none"> 2. Group Project <ul style="list-style-type: none"> ○ Foley for 15-minute video of a real film. ○ How to edit to film 	<p>HW:</p> <ol style="list-style-type: none"> 1. Final Project – Pre-Production

	<ul style="list-style-type: none"> ○ Compress Video File ○ Import video to Pro Tools ○ Setup your session <p>3. Work with your group</p>	
11/23	HOLIDAY – Thanksgiving	
15		HW: Work on Final project
11/28	Studio Time to work on Foley recording and editing.	
11/31	Surround Sound mix <ul style="list-style-type: none"> 2. What is 5.1? 3. How to setup 4. In-class demo 	
12/5	Final Project Due	12/3/17 11:59pm
12/14	FINAL EXAM	Thursday 3:00-5:00pm in PICT

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/>

COURSE FEES

Course fees are assessed for certain courses to offset the cost of materials or supply items consumed in the course of instruction. A list of [approved courses and fees](#) 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 course fee for this class is **\$39.40**

The total course fee for each course is listed on the UF Schedule of Courses. (<https://registrar.ufl.edu/soc/>).

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
A	94 – 100%	4.0
A-	90 – 93%	3.67
B+	87 – 89%	3.33
B	84 – 86%	3.00
B-	80 – 83%	2.67
C+	77 – 79%	2.33
C	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- U, WF		0.00

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

Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at:

<https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>

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 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 umatter@ufl.edu 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)
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.