**Course Number:** DIG 6256c

**Course Title:** Audio Design For Digital Production

**Credits:** 3

**Instructor:** Patrick Pagano  
Digital Worlds Institute  
University of Florida  
GAINESVILLE, FL US 32611

Email: pat@digitalworlds.ufl.edu  
Phone: 352-294-2020

**Prerequisites:**

1.) You must provide a personal laptop with and bring it to every meeting.

**Course Description:**

This course provides students with an introductory technical understanding for the acoustic and psychoacoustic parameters sound. In class tutorials will include professional techniques for the completion of sound based projects. Students will use software tools for conversion, storing, processing and retrieving audio in a variety of digital formats. Fundamentals of loop-based audio design, sampling and work with an industry standard Digital Audio Workstation software program will be a major focus. Students will configure their own laptops for the completion of in-class and a variety of assignments. In addition, students will add sound to a variety of digital media artifacts during the class, create an on-line repository and participate in a global on-line audio database. Students will take part in recording a live music program including monitoring, mixing and streaming digital audio. Students will patch and record sounds from an analog synthesizer for a historical understanding of hardware based audio tools. This class will introduce students to the development of both the theory and the practice of synthesizing musical sounds using computers.

**Course Syllabus:**

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<th>Date</th>
<th>Topics</th>
<th>Comments</th>
<th>Homework</th>
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| Week One | Theories and Principles of Audio Design From Tape to Download  
BLOG and UPLOADING WORKS | Office hours – (varies by semester) | 1. Sign up for Blog  
Course Introduction and Goals  
Course Expectations  
Group & Individual Responsibilities |
|---|---|---|---|
| Week Two | Sound Presentation  
Browser Audio Laptop Music Revolution  
Bicycle Built For two | Office hours – | Blog assignment a brief history of  
electronic music  
Geo tagging audio |
| Week Three | Open source and Free Audio Design Tools  
Sampling and Plundering: We're all Media Pirates now | Office hours – | HISTORICAL: Harmonics Series,  
Just Intonation & Equal Temperment  
1.) pure data evaluation  
2.) pd-extended assignment |
| Week Four | 1. MIDI PROTOCOL  
2. MIDI SEQUENCES  
MIDI CONTROL | Office hours – | Online music tools  
1.) Blog Assignment: assessing music  
2.) Soundcloud, bandcamp and Freesound |
| Week Five | New Aesthetics: from cage,cutups & glitch  
ABLETON I online: NIN,  
BUSH OF GHOSTS | Office hours – | Blog assignment: Noise and Glitch aesthetics  
1. REMIX PROJECT ASSIGNED |
| Week Six | ABLETON II  
Criteria for projects Explained and clarified | Office hours – | REMIX PROJECT ASSIGNMENT  
-works in progress upload 1 |
<table>
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<tr>
<th>Week Seven</th>
<th>ABLETON DEMONSTRATION III</th>
<th>Office hours –</th>
<th>Blog assignment: online music “toys” REMIX PROJECT ASSIGNMENT -works in progress and online posting</th>
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<tbody>
<tr>
<td>Week Eight</td>
<td>1.) Design work Criteria</td>
<td>Office hours –</td>
<td>REMIX DUE MIDTERM</td>
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<tr>
<th>Week Nine</th>
<th>Pure data as a game audio engine</th>
<th>Office hours – (varies by semester)</th>
<th>Sound Design For Games: 2. Game Audio Design</th>
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<tr>
<td>Week Ten</td>
<td>Movie: Bob Moog: SYNTHESIZER Project Virtual Synths</td>
<td>Office hours –</td>
<td>Synthesizer Projects Blog assignment: Synthesis Types and history</td>
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<td>Week Eleven</td>
<td>Surround Sound Dolby THX and Professional Sound Design “MUSIC FOR FILMS”</td>
<td>Office hours –</td>
<td>Blog assignment: Film Music Links and Examples</td>
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<tr>
<td>Week Twelve</td>
<td>INTRO TO PROTOOLS MIXING 5.1 for Digital Media</td>
<td>Office hours –</td>
<td>SURROUND SOUND PROJECT Assigned</td>
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<td>Week Thirteen</td>
<td>PROTOOLS I</td>
<td>Office hours –</td>
<td>AUDIO TECH SHOW</td>
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<tr>
<td>Week Fourteen</td>
<td>PROTOOLS II</td>
<td>Office hours –</td>
<td>AUDIO TECH SHOW</td>
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<td>Week Fifteen</td>
<td>Testing and tech for presentations</td>
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<td>FINAL PRESENTATION TECH 1. Documentation and archiving</td>
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Suggested Readings

http://www.ableton.com/pages/downloads/manuals

Sound Unbound
http://www.soundunbound.com/

In class selections will be presented:

1. Grade Breakdown
2. GRADING SCALE
3. A = 95-100 points
4. A- = 90-94 points
5. B+ = 87-89 points
6. B = 84-86 points
7. B- = 80-83 points
8. C+ = 77-79 points
9. C = 74-76 points
10. C- = 70-73 points
11. D+ = 67-69 points
12. D = 64-66 points
13. D- = 60-63 points
14. E = 59 points or below

   a. Individual In class participation 10
   b. Individual Blog participation 10
   c. In Class Objectives 20
d. Show Project 20

e. Midterm Project 20

f. Final Project Presentation 20

g. Total 100

University of Florida Policies

1. Academic Honesty: As a result of completing the registration form at the University of Florida, every student has signed the following statement: "I understand the University of Florida expects its students to be honest in all their academic work. I agree to adhere to this commitment to academic honesty, and understand that my failure to comply with this commitment may result in disciplinary action, up to and including expulsion from the University."

2. Acceptable Use Policy: Please read the University of Florida Acceptable Use Policy. It is expected that you abide by this policy.

3. Software Use: All faculty, staff, and students of the University of Florida are required and expected to obey laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against University policies and rules, disciplinary action will be taken as appropriate.

4. Accommodations for Students with Disabilities: Students with disabilities, who need reasonable modifications to complete assignments successfully and otherwise satisfy course criteria, are encouraged to meet with the instructor as early in the course as possible to identify and plan specific accommodations.

   a. Students will be asked to supply a letter from the Office for Students with Disabilities to assist in planning accommodations. Please see me outside of class time to discuss any accommodations you might need.

5. University of Florida Counseling Services: Resources are available on campus for students having personal problems or lacking clear career and academic goals that interfere with their academic performance. These resources include:

   a. University Counseling Center, 301 Peabody Hall, 3921575, personal and career counseling.

   b. Student Mental Health, Student Health Care Center, 3921171, for personal counseling.

   c. Sexual Assault Recovery Services (SARS), Student Health Care Center, 3921161, for sexual assault counseling.

   d. Career Resource Center, Reitz Union, 3921601, career development assistance and counseling.

6. UF Computer Policy
a. In keeping with the University of Florida’s student computer policy all assignments completed for this class must be typed using a word processing program. Use of spell-checking and grammar-checking programs is strongly encouraged. Excessive spelling/grammar errors detract from quality of scholarship, and will be appropriately assessed. Use of desktop publishing software and computer generated graphics for course product that may eventually be included in student’s portfolios is also strongly encouraged.

7. Technology Assistance

   a. The course instructors will hold weekly office hours Face-to-Face and be available online for assistance.

   b. Students are encouraged to attempt to complete assignments early enough such that instructors can provide assistance during regular work days and during regularly scheduled hours.

   c. In extreme emergencies, students may attempt to make appointments with course instructors or mentors.

   d.Late work will be penalized according to the late policy.

8. Late policy

   a. Any assignment turned in past the due date will lose 10% of the total point value of the assignment for each day it is late.

9. Response times

   a. Allow 24 hours for replies to email. This may be extended to 48 hours if email is left over a weekend or holiday.

10. Student Concerns

    a. If you have any concerns or questions about any situation in the course please contact the instructor ASAP.