

MuPR 302 - Digital and Advanced Recording
Credits: 2.0
Shenandoah Conservatory – Spring 2016

General Education designations:
None

Contact Information:

Instructor: Adam Olson
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Email: aolson@su.edu
Office Hours: Posted outside office door and at bit.ly/aohours
Class Website: su.studioprime.com

Course Description:

This course will prepare students to be able to understand connecting digital with analog systems, speaker set-up, audio signal flow, interfacing with DAW's through digital and analog mixers, sample rates, dither, bit depth, and other related concepts pertaining to digital audio. Synchronization will be covered and used including, MIDI time code, SMPTE, frequency shift keying and other forms of synchronization.

Note that all students registered for this class should also be registered for MuPR 322 - Digital and Advanced Recording - Studio Time. See current undergraduate catalog for associated fee.

Course Prerequisites:

MuPR 112 - Recording Systems, Design and Application II

Course Foundation:

Applied study demonstrates the following aspects of the Shenandoah University mission statement: "Development of an enduring passion for learning."

Applied study demonstrated the following aspects of the Shenandoah Conservatory mission statement: "to become better listeners, and to become contributing citizens of the world."

Required Texts and Materials:

"Mastering Audio – the Art and Science" by Bob Katz - third edition
ISBN-13: 978-0240818962 \$42.00

"Desktop Audio Technology – digital audio and MIDI principles" by Francis Rumsey
ISBN-13: 978-0240519197 \$63.00

Observance of copyright law is expected of all faculty, staff and students. All persons using copyrighted materials must become familiar with the requirements of the U.S. Copyright Act of 1976, including current supplements.

A summary of copyright law requirements is available, along with a list of sources of copyright information, on page 33 of the Applied Music Policies and Procedures manual, available at <http://www.su.edu/Applied-and-Procedures-Manual-09.pdf>.

Additional Recommended Expenses:

"Time Code Primer" published by SPARS is also recommended
(<http://spars.com/products/time-code-primer>). \$30.00

"Audio Metering: Measurements, Standards and Practice" and by Eddy Brixen
ISBN-13: 978-0240814674 \$42.00

Learning Outcomes:

Upon completion of this course, the student should be able to:

1. Demonstrate understanding of the materials described under the course description
2. Be able to communicate that understanding as appropriate.

Evidence of Student Learning:

1. Students will show their mastery through two hands on proficiencies. (LO #1)
2. Class participation, assignments & exams. (LO #2)

Attendance Policy:

Tardiness: No participation credit will be given to tardy students. It is the student's responsibility to mark themselves as tardy on the roll; students not recording tardiness will receive an unexcused absence for the day.

Tardiness beyond 15 minutes or being tardy three times constitutes an absence.

Absences: Only absences cause by official travel arranged by the University constitute an excused absence. Please personally email your instructor in addition to the official approved absence notification. Each class is equivalent to two classes so **no more than two unexcused absences before grade will be lowered to an F.**

Make-up Policy:

All assignments not turned in at the beginning of class on due date will be given half credit of the graded score. Assignments more than two weeks late will not be given credit.

Preparation and Participation:

Details of assignments will be discussed or handed out in class.

Email Policy:

Students are also responsible for checking email once every 24 hours Monday-Friday.

Cell Phone Policy:

Students will be dismissed from class for the day if cell phone rings during class. Students are expected to excuse themselves without instructor intervention. If there is a dire situation in which your cell phone must be left on please inform instructor before class and if possible please turn phone to vibrate only. This behavior is expected in nearly all-professional recording situations.

Students with Disabilities:

The Americans with Disabilities Act (ADA) prohibits discrimination against individuals with disabilities. Under ADA, a disability is defined as a physical or mental impairment that substantially limits a major life activity. If you need accommodations because of a disability, please register with the Office of Learning Resources and Services (located in the Academic Enrichment Center in Howe Hall, room 204) at the beginning of each semester, or as soon as possible, so that arrangements can be made. Accommodations are granted on a case-by-case basis with the support of proper documentation. Please call the office of Learning Resources and Services at 540-665-4928 or email dss@su.edu for information and/or to make an appointment to discuss your needs. You will find more information at: <http://www.student-life.su.edu/disability-services>

Honor Code:

The SU Honor Code prohibits lying, stealing, and cheating. As a faculty member of SU, I am dedicated to upholding the standards of academic integrity prescribed by the Honor Code, and I do not tolerate academic dishonesty for any reason. If I suspect a violation has occurred, I will take action. If you have questions about the Honor Code, please come talk to me or refer to Honor Code on the SU website. Logging in to a SU system with a SU issued login signifies that you are agreeing to abide by the SU Honor Code.

Inclement Weather:

Notice of class cancellations and campus closings will occur through the Emergency Alert System and will be placed on area radio and television stations, the SU Web site and the University phone system.

In incidences of class canceled due to campus closure, class material will be reorganized to absorb content and classroom work through regularly scheduled classes. In some cases assignments will be given in replacement of the contact hours.

Student Complaint Policy:

Shenandoah University affirms the right of students to bring forth complaints and is committed to resolving these matters in a fair, equitable and timely manner, so as to protect the rights of both the individual and the community. Refer to the student catalog for specific procedures.

Student Privacy:

Annually, Shenandoah University provides information to students concerning their rights under the Family Educational Rights and Privacy Act of 1974, as amended (FERPA). This act was designed to protect the privacy of education records and afford students certain rights with respect to their education records. Refer to the student catalog for specific procedures.

In compliance with FERPA, students 18 years of age or older must authorize contact between faculty members and their parents/guardians. Forms are available in the Conservatory Office and must be signed prior to any discussions between faculty members and student parents/guardians.

Student Support Services:

The Library online materials are available 24/7:
<http://www.su.edu/university-libraries>

The IC Help Desk are available 24/7:
<https://workorder.su.edu/helpdesk>

The Counseling resources are available at:
<http://www.student-life.su.edu/counseling-center-home>

Health Issues:

Students are expected to maintain a state of health that permits them to function in the instruction offered. Proper nutrition and adequate rest form the basis for this condition.

Liability:

Students are responsible for protecting their personal instruments, music and other equipment, as well as Shenandoah University property checked out or assigned to them. When transport of personal equipment or instruments is necessary, reasonable care will be provided by Shenandoah University. Damages will be covered only when negligence on the part of Shenandoah University can be demonstrated. Shenandoah University assumes no responsibility for student-owned instruments and equipment left unattended in an unsecured site. All students are urged to insure their possessions against theft and damage.

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Grading scale:

	A	93-100%	A-	90-92%	
B+	87-89%	B	83-86%	B-	80-82%
C+	77-79%	C	73-76%	C-	70-72%
D+	67-69%	D	60-66%	F	0-59%

*A grade of "C" (not C-) is required to pass this class.

Course Requirements

- 10% Ten Minute Class Presentations:
 - Presentation 1 – 5%
 - Presentation 2 – 5%
- 10% Quizzes:
 - Quiz 1 – 5%
 - Quiz 2 – 5%
- 20% Proficiencies:
 - 10% D-Command
 - 10% Synchronization
- 10% Research Assignment
- 40% Exams:
 - Mid-term 20%
 - Final exam 20%
- 10% Class participation & attendance:
 - Not tardy and actively engaged

COURSE CALENDAR

Week	Date	Desktop Audio Technology	Mastering Audio	Exams & Due
1	Wednesday, January 20, 2016			
2	Wednesday, January 27, 2016	1 Introduction to Desktop Audio Technology	14 Connecting It Together	
3	Wednesday, February 03, 2016		22 Analog and Digital Processing; 23 High Sample Rates, Is This Where It's At?	
4	Wednesday, February 10, 2016		15 Wordlengths and Dither; 24 Jitter - Separating the Myths from the Mysteries	
5	Wednesday, February 17, 2016	3 Recording, Replay, and Editing Principles		
6	Wednesday, February 24, 2016	5 Hardware and Systems Issues; 8 Operational and System Issues		Quiz #1
7	Wednesday, March 02, 2016	6 Audio Formats and Data Interchange		Mid-Term
Spring break	Wednesday, March 09, 2016			
8	Wednesday, March 16, 2016	4 MIDI and Synthetic Audio Control		
9	Wednesday, March 23, 2016	7 Audio Software		
10	Wednesday, March 30, 2016		25 Technical Tips and Tricks	
11	Wednesday, April 06, 2016		16 Decibels: Going Deep	Quiz #2
12	Wednesday, April 13, 2016		17-19 The Loudness Revolution: The War is Ending; Loudness Metering: It's Time; Calibrated Monitoring	Research Assignment Due
13	Wednesday, April 20, 2016		20 Monitor Quality; 21 Monitor Setup	
14	Wednesday, April 27, 2016			
15	Wednesday, May 04, 2016			

I have received, read, and understand the nature of and requirements for:

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Name Print: _____

Signature _____ Date _____