

Program Syllabus 12-Week

General Information

Instructors:	Mike Brown Mike Pfaff
Office Phone:	(216) 334.1172
E-mail:	mike@lavaroomrecording.com pfaff@lavaroomrecording.com
Office Hours:	Mon-Fri 10am-6pm by appointment only

Program Description

Welcome to Lava Room Recording's Cleveland School of Audio Recording. Throughout this 24-week program, you will learn the technical skills of audio engineering & production stemming from basic signal flow to full session recording. By the end of this program, you should be comfortable and capable enough to run a session on your own, and pursue your career as an audio engineer. The program will be divided into three 8-week periods allowing us to focus on each intricate part of recording without overwhelming the student.

Here are a few of the topics we'll cover:

- Basics of Sound and Hearing
- Signal Flow
- Microphone Designs and Applications
- Analogue and Digital Recording Technology
- Signal Processing

Not only will you read and learn about these topics, but you will also get hands-on experience in the studio and apply what you are learning. The opportunity to sit in on real recording/mixing sessions may also arise, and if so it is strongly recommended to take in all you can.

Program Materials

Avid Pro Tools: Digital Audio Workstation Software (PC or Mac)

Avid Fast Track Pro: Audio Interface

Supplemental Readings (provided by instructor)

Program Requirements

The student is required to read the syllabus and complete the work as outlined. All assignments should be submitted on time. Late assignments will be penalized at the instructor's discretion.

Tests will be given every two weeks covering the material touched upon during that timeframe.

Grading

Grades will be given out every 8 weeks to show your progress throughout the program, and will be accumulated at the end of the 24 weeks. The grading scale will be as follows:

A	95 – 100	4.0
B	85 – 94	3.0
C	75 – 84	2.0
D	70 – 74	1.0
F	0 – 69	0.0

All assignments and tests are graded on a 100-point scale. At the end of the 24 weeks, students will have a final project consisting recording and mixing of one song (25% of grade), and a final written exam (25% of grade). The cumulative grade for the three 8 week periods (50% of grade) will be combined with the final project and final exam for your final grade. Students must finish the program with a C average to qualify for certification.

Grade Weights (1st 6 Weeks):

4 Assignments/Quizzes	10%
2 Tests	15%

Grade Weights (2nd 6 Weeks):

4 Assignments/Quizzes		10%
2	Tests	15%
1st 6 weeks	-	25%
2nd 6 weeks	-	25%
	Final Project	- 25%
Final Exam	-	25%

Program Outline

Week 1

- **Reading**
 - o **Chapter 1 – Introduction (pp. 1-32)**
 - o **Chapter 2 – Sound and Hearing (pp. 33-66)**
- **Day 1**
 - o **Lecture on Chapters 1 & 2**
 - o **Finish reading Chapters 1 & 2 by next lesson**
- **Day 2**
 - o **Lab on Sound & Hearing**
 - o **Assignment 1 given**

Week 2

- **Reading**
 - o **Chapter 3 – Studio Acoustics & Design (pp. 67-114)**
- **Day 1**
 - o **Assignment 1 due**
 - o **Lecture on Chapter 3**
 - o **Finish reading Chapter 3 by next lesson**
- **Day 2**
 - o **Lab/Tour on Studio Acoustics & Design**
 - o **Assignment 2 Given**
 - o **Study for Test 1!!!!**

Week 3

- **Reading**
 - o **Chapter 4 – Microphones: Design & Applications (pp.115-143)**
- **Day 1**
 - o **Assignment 2 due**
 - o **Test on Chapters 1-3**

- o Lecture on Chapter 4
- o Receive signal flow chart for 'Record Mode' and study EVERY DAY for the rest of the program!
- Day 2
 - o SSL Signal Flow Lab
 - o Lab on Microphones (Type & Directional Response)
 - o Assignment 3 given

Week 4

- Reading
 - o Chapter 4 – Microphones: Design & Applications (pp. 143-186)
- Day 1
 - o Assignment 3 due
 - o Lecture on the rest of Chapter 4
 - o Finish reading Chapter 4 by next lesson
- Day 2
 - o SSL Signal Flow lab
 - o Lab on Microphone Techniques
 - o Assignment 4 Given
 - o Study for Test 2!!!!

Week 5

- Reading
 - o Supplemental Reading (provided)
 - o Chapter 6 – Digital Audio Technology (pp. 215-250)
- Day 1
 - o Assignment 4 Due
 - o Test on Chapter 4
 - o Lecture on Chapters 5 & 6
 - o Have Chapter 6 read up to page 250 by next lesson
- Day 2
 - o Introduction to Pro Tools Lecture & Lab
 - o Assignment 5 Given

Week 6

- Reading
 - o Chapter 6 – Digital Audio Technology (pp. 251-298)
- Day 1
 - o Assignment 5 Due
 - o Lecture on the rest of Chapter 6
 - o Pro Tools Lab

- o Have rest of Chapter 6 read by next lesson
- Day 2
 - o Intro to Reason Lab
 - o Assignment 6 Given
 - o Study for Test 3!!!!

Week 7

- Reading
 - o Chapter 7 – Digital Audio Workstations (pp. 257-290)
- Day 1
 - o Assignment 7 Due
 - o Lecture on the Rest of Chapter 7
 - o Have rest of Chapter 7 read by next lesson
 - o Have supplemental material read for next week
- Day 2
 - o Lab 2 on DAWs
 - o Assignment 8 Given
 - o Study for Test 4!!!!
 - o

Week 8

- Reading
 - o Chapter 10 – Multimedia & the Web (pp. 369-392)
- Day 1
 - o Lecture on Chapter 10
 - o Finish reading Chapter 10 by next lesson
- Day 2
 - o Drum Miking Lab
 - o Assignment 12 Given

Week 9

- Reading
 - o Chapter 12 – Amplifiers (pp. 415-421)
- Day 1
 - o Assignment 13 Due
 - o Lecture on Chapter 12
 - o Guitar Miking Lab (electric)
- Day 2
 - o Mix Lab (Time Based Effects)
 - o Signal Flow Practical/Assignment 14 (Vocal Routing)
 - o Study for Test 7!!!!

Week 10

- **Reading**
 - o **Chapter 13 – The Art & Tech. of Mixing (pp. 423-440)**
- **Day 1**
 - o **Test on Chapters 11 & 12**
 - o **Lecture on Chapter 13**
 - o **Read up to page 440**
- **Day 2**
 - o **Art/Tech. Mix Lab/Assignment 15**

Week 11

- **Reading**
 - o **Chapters 17 & 18 – Surround Sound & Mastering (pp. 545-574)**
- **Day 1**
 - o **Test on Chapters 15 & 16**
 - o **Lecture on Surround and Mastering**
 - o **Mixing Lab**
- **Day 2**
 - o **Mix Lab Evaluation/Assignment 20**
 - o **Assignment 21/Final Review Given**
 - o **Go over details for Final Project starting NEXT WEEK!!!!**

Week 12

- **Day 1**
 - o **Last day for mixing Final Project**
 - o **Study for Final Exam**
 - o **Final Exam Review**
- **Day 2**
 - o **Final Project Due**
 - o **Final Exam!!!!**