

Introduction to Music Technology I

MUS 130 01

Wednesday & Friday 3:00 p.m. – 3:50 p.m.

2 credits

Location: Benildus 238 (Composition Studio)

Instructor: Steven M. Miller

Office: Benildus 237

Phone: x6197

Email: smill@csf.edu

www: <http://pubweb.csf.edu/~smill>

Course Semester Schedule:

Week	Date	Description & Reading Assignments
1	Aug 24	Introductions, syllabus, course objectives, etc. Introductory discussion on technology
	Aug 26	Introductory Acoustics 1 Read – Ballora: Preface & Chapter 1
2	Aug 31	A Little Bit of Math: Ratios, Logarithms & Decibels Read – Handouts: <i>dBs Made Simple</i> ; <i>The dB Who, What, Why</i> ; & <i>On The Level</i>
	Sep 2	Introductory Acoustics 2 Read – Ballora: Chapter 2
3	Sep 7	Basic Analog Electronics Read – Handouts: <i>Electricity</i> ; and <i>Reviewing the Basics</i>
	Sep 9	Transducers 1: Speakers Read – Handout: <i>How A Speaker Works</i>
4	Sep 14	Transducers 2: Microphones Read – Handout: <i>What You Need to Know About Microphones</i> ; & Ballora: Chapter 11 pp. 177 – end
	Sep 16	Transducers 3: More About Microphones (hands-on)
5	Sep 21	Mixing Consoles 1 Read – Ballora: Chapter 12 pp. 211 – end
	Sep 23	Mixing Consoles 2 (hands-on)
6	Sep 28	Audio Electronics 1: Cables & Connectors Read – Handouts: <i>Wiring Diagrams</i> ; & <i>Electrical and Interface Systems</i>
	Sep 30	Audio Electronics 2: Patchbays & Signal Flow (hands-on)
7	Oct 5	Audio Electronics 3: Amplifiers
	Oct 7	Review for midterm

8	Oct 12 Oct 14	Midterm (vocabulary & concepts) No class meeting
9	Oct 19 Oct 21	System Overview & Troubleshooting (hands-on) Introductory Acoustics 3 Read – Ballora: Chapter 11 pp. 169-176
10	Oct 26 Oct 28	Introductory Psychoacoustics 1 Read – Ballora: Chapter 3 Introductory Psychoacoustics 2: Listening Examples
11	Nov 2 Nov 4	Signal Processing 1: Filters & Equalization Read – Handout: <i>All Things Being Equalized</i> ; <i>Signal Processing Overview</i> ; <i>Frequency/Instrument Chart</i> ; & Ballora: Chapter 12 pp. 198-199 Signal Processing 2: Delays Read – Handouts: <i>The Use of Early Delays</i> ; <i>The Phantom Image</i> ; <i>Signal Processing Overview</i> ; & Ballora: Chapter 12 pp. 200-206
12	Nov 9 Nov 11	Signal Processing 3: Reverberation Read – Handout: <i>Signal Processing Overview</i> ; & Ballora: Chapter 12 pp. 206-208 Signal Processing 4: Compression/Limiting Read – Handouts: <i>Signal Processing Overview</i> ; <i>Compressors and Limiters</i> ; <i>All About Dynamics Processing</i> ; <i>Dynamic Range Modification</i> ; <i>An Engineer's Guide to Compression and Limiting</i> ; & Ballora: Chapter 12 pp. 208-209
13	Nov 16 Nov 18	Hands-on Session 1 Hands-on Session 2
14	Nov 23 Nov 25	No Class: Thanksgiving break No Class: Thanksgiving break
15	Nov 30 Dec 2	Hands-on Session 3 Review for final exam
16	Dec 9	Final exam @ 1:30 p.m.