

Introduction to Music Technology: Analog
MUS 130 01

Tuesday & Thursday 2:00 p.m. – 2:50 p.m.
2 credits
Location: Benildus 246

Instructor: Steven M. Miller
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Course Semester Schedule

Week	Date	Description & Reading Assignments
1	Aug 28	<i>Introductions, syllabus, course objectives, etc.</i> <i>Introductory discussion on technology, music, etc.</i> <i>Flow Charts</i> (Signal flow block diagrams) Handout: Signal Flow Charts
	Aug 30	<i>Basic Physics of Waves</i> Read: Solum Chs. 1 & 2
2	Sep 4	<i>Basic Acoustics & Psychoacoustics</i> Read: Solum Ch. 3
	Sep 6	<i>Basic Electricity and Electronics</i> Read: Solum Ch. 4 pp. 55-62 Handout: Electricity Handout: Basic Electronics
3	Sep 11	<i>Transducers 1: Microphones</i> Read: Solum Ch. 4 pp. 62-67 Handout: What You Need to Know About Microphones
	Sep 13	<i>Hands-on</i> Handout: Mics for Live Applications
4	Sep 18	<i>Transducers 2: Speakers</i> Read: Solum Ch. 4 pp. 62-67 Handout: How a Speaker Works
	Sep 20	<i>Hands-on</i>
5	Sep 25	<i>Signal Flow & System Overview</i> Read: Solum Ch. 5: Intro & Signal Path Principles #1, 2, 4
	Sep 27	<i>Amplifiers</i> Read: Solum Ch. 5: Signal Path Principle #3

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| 6 | Oct 2

Oct 4 | <i>System Interconnection</i>
Read: Solum Ch. 6
Handout: Wiring Diagrams
<i>Hands-on</i> |
| 7 | Oct 9

Oct 11 | <i>System Troubleshooting</i>
Handout: Troubleshooting Ideas and Suggestions
<i>Hearing Safety</i>
Handout: Hearing Safety |
| 8 | Oct 16
Oct 18 | <i>Midterm Exam Review</i>
<i>Midterm Exam</i> |
| 9 | Oct 23

Oct 25 | <i>Mixers 1: Overview & Inputs</i>
Read: Solum Ch. 7
<i>Mixers 2: Routing & Outputs</i>
Read: Solum Ch. 7 |
| 10 | Oct 30
Nov 1 | <i>Mixers 3: Block Diagrams</i>
<i>Hands-on</i> |
| 11 | Nov 6

Nov 8 | <i>Practical Applications: Matching Amps & Speakers</i>
Handout: Matching Amps and Speakers
<i>Hands-on</i> |
| 12 | Nov 13

Nov 15 | <i>Signal Processing 1: Equalization</i>
Handout: All Things Being Equalized
Handout: Frequency-Instrument Chart
Handout: Signal Processing Overview
<i>Signal Processing 2: Delay and Reverberation</i>
Handout: The Use of Early Delays
Handout: The Phantom Image
Handout: Signal Processing Overview |
| 13 | Nov 20
Nov 22 | <i>Hands-on</i>
<i>Thanksgiving Holiday – No classes</i> |
| 14 | Nov 27
Nov 29 | <i>Practical Applications: System Design (Singer/guitarist)</i>
<i>Hands-on</i> |
| 15 | Dec 4
Dec 6 | <i>Practical Applications: System Design (3-4 piece band)</i>
<i>Hands-on</i> |
| 16 | Dec 11-14 | <i>Final Exams</i>
Sign up for individual exam times on my door
no later than noon on Monday December 10 |