

## Introduction to Music Technology I

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:

<b>Week</b>	<b>Date</b>	<b>Description &amp; Reading Assignments</b>
1	Aug 29	Introductions, syllabus, course objectives, etc. Introductory discussion on technology, music, etc. Flow Charts (Signal flow block diagrams)
	Aug 31	Basic Physics of Waves Read: Solum Chs. 1 & 2
2	Sep 5	Basic Acoustics & Psychoacoustics Read: Solum Ch. 3
	Sep 7	Basic Electricity Read: Solum Ch. 4 pp. 55-62 Handout: Electricity
3	Sep 12	Transducers 1: Microphones Read: Solum Ch. 4 pp. 62-67 Handout: What You Need to Know About Microphones
	Sep 14	Hands-on Read: Handout: Mics for Live Applications
4	Sep 19	Transducers 2: Speakers Read: Solum Ch. 4 pp. 62-67 Handout: How Speakers Work
	Sep 21	Hands-on

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5	Sep 26	Signal Flow & System Overview Read: Solum Ch. 5: Intro & Signal Path Principles #1, 2, 4
	Sep 28	Amplifiers Read: Solum Ch. 5: Signal Path Principle #3
6	Oct 3	System Interconnection Read: Solum Ch. 6 Handout: Wiring Diagrams
	Oct 5	Hands-on
7	Oct 10	No class meeting
	Oct 12	No class meeting
8	Oct 17	Midterm Exam Review
	Oct 19	Midterm Exam
9	Oct 24	Mixers 1: Overview & Inputs Read: Solum Ch. 7
	Oct 26	Mixers 2: Routing & Outputs Read: Solum Ch. 7
10	Oct 31	Mixers 3: Block Diagrams
	Nov 2	Hands-on
11	Nov 7	System Troubleshooting & Hearing Safety Read: Handout: Troubleshooting Ideas/Suggestions Handout: Hearing Safety
	Nov 9	Practical Applications: Matching Amps & Speakers Read: Handout: Matching Amps & Speakers

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<b>Week</b>	<b>Date</b>	<b>Description &amp; Reading Assignments</b>
12	Nov 14	Signal Processing 1: Equalization Read: Handout: All Things Being Equalized Handout: Frequency-Instrument Chart Handout: Signal Processing Overview
	Nov 16	Signal Processing 2: Delay and Reverberation Read: Handout: The Use of Early Delays Handout: The Phantom Image Handout: Signal Processing Overview
13	Nov 21	Hands-on
	Nov 23	Thanksgiving Holiday – No classes
14	Nov 28	Practical Applications: System Design (Singer/guitarist)
	Nov 30	Hands-on
15	Dec 5	Practical Applications: System Design (3-4 piece band)
	Dec 7	Hands-on
16	Dec 12-15	Final Exams Sign up for individual exam times on my door no later than noon on Monday December 11.