

MUIN 5878B - ST Exp Synth/Sound Creation

Fall 2026 Syllabus, Section 01, CRN 43924,

Credit hours: 3

Instructor

Daniel Keown

Email: dkeown@ysu.edu

Public Instructor Information

Instructor Title: Associate Professor

Instructor Professional Qualifications: Ph.D. Music Education, University of Missouri-Kansas City, Masters in Choral Conducting, Indiana State University, Bachelor's in Music Recording Technology, University of Wisconsin-Oshkosh.

Instructor Office Location: Bliss Hall room 3153

Instructor Office Phone: x3645

Course Description

5878B. Special Topics Exp Synth/Sound Creation. Topics in music industry and recording arts not covered in regular upper-division offerings. Topics may include event planning, copyright law and music publishing, grant writing and fundraising. Prereq.: Junior or senior standing. 3 s.h.

Course Readings

Group	Title	Author	ISBN
No Readings			

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Think Like a Synth Timeline

Day	Date	Proposed Topic	Due/To Prepare for Class
Mon	8/24	Introduction to Course & Tuning Synthesizers	
Wed	8/26	Waveforms & Oscillators	
Mon	8/31	VCF & Envelope Generators	
Wed	9/2	LFO's	
Wed	9/9	Filter Modulation	Quiz 1
Mon	9/14	VCA's	
Wed	9/16	Pulse Width Modulation	
Mon	9/21	Vibrato & Tremolo	Activity #1
Wed	9/23	Attend a performance at the McDonough Art Museum featuring synth artist Óskar Þór Arngrímsson and visual artist Ella Medicus @ 5:30 pm	
Mon	9/28	Oscillator Configurations & Introduction to MiniMoog	
Wed	9/30	OPEN LAB – Work on BassDNA Patch & Present Project	Quiz 2
Mon	10/5	BassDNA Presentations	Oscillator Configuration BassDNA: Patch & Present Presentation
Wed	10/7	Noise Generator & Multiples	



Mon	10/12	OPEN LAB - Work on midterm project	
Wed	10/14	Present Midterm Projects	Midterm Project & Presentation
Mon	10/19	Ring Modulator	
Wed	10/21	Sample and Hold	
Mon	10/26	Lag Processor	Quiz 3
Wed	10/28	Voltage & Voltage Control	
Mon	11/2	Clocks	
Wed	11/4	The Envelope Follower	
Mon	11/9	The Preamp & Distorted LFO's	Activity #2
Mon	11/16	Ring Modulation Effects & DC Coupled Ring Mod	Quiz 4
Wed	11/18	The Mixer and Output Section	
Mon	11/23	Translating Synthesis Knowledge Across Instruments & Modulation Matrix	
Wed	11/25	OPEN LAB – Work on final project	
Mon	11/30	OPEN LAB – Work on final project (*students participating in Carols & Cocoa performance are excused from class)	
Wed	12/2	Present Final Projects	
Mon	12/7	OPEN LAB – Work on final project (*students participating in Carols & Cocoa performance)	Final Project & Presentation

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.