Course Outline of Record Report

Cyclical Review - November 2023

MUSIC184: Electronic Music I

General	Inform	ation
Genera		Iauvii

Author: • Tobin Sparfeld

Course Code (CB01): MUSIC184

Course Title (CB02): Electronic Music I

Department: MUSIC
Proposal Start: Fall 2024

TOP Code (CB03): (1005.00) Commercial Music

CIP Code: (10.0203) Recording Arts Technology/Technician.

SAM Code (CB09): Possibly Occupational

Distance Education Approved: No
Will this course be taught No

asynchronously?:

Course Control Number (CB00): CCC000608694

Curriculum Committee Approval Date: 12/13/2023

Board of Trustees Approval Date: 01/09/2024

Last Cyclical Review Date: 12/13/2023

Course Description and Course Note: MUSIC 184 introduces the techniques and elements of electronic music production.

Students will explore analog and digital synthesis techniques and will learn to craft original sounds with these synthesis techniques. Students will also learn the principles and techniques of digital sampling and Musical Digital Instrument Interface (MIDI) sequencing,

eventually creating compositions using electronic music techniques.

Justification: Mandatory Revision

Academic Career: • Credit

Author: • Tobin Sparfeld

Academic Senate Discipline

Primary Discipline: • Music

Alternate Discipline: Alternate Discipline:

Course Development

Basic Skill Status (CB08) Course Special Class Status (CB13)

Course is not a basic skills course. Course is not a special class.

Grading Basis

• Grade with Pass / No-Pass Option

Allow Students to Gain Credit by Exam/Challenge

Pre-Collegiate Level (CB21)

Not applicable.

Course Support Course Status (CB26)

Course is not a support course

Transferability & Gen. Ed. Options

General Education Status (CB25)

Not Applicable

Transferability Transferability Status

Transferable to both UC and CSU Approved

C-ID Area Status Approval Date Comparable Course

CMUS Commercial Approved 09/03/2019 CMUS 110 X - Electronic Music I

Music

Units and Hours

Summary

Minimum Credit Units 2

(CB07)

2

Maximum Credit Units

(CB06)

54

Total Course In-Class (Contact) Hours

•

Total Course Out-of-Class

Hours

54

Total Student Learning

Hours

108

Credit / Non-Credit Options

Course Type (CB04) Noncredit Course Category (CB22) Noncredit Special Characteristics

Credit - Degree Applicable Credit Course. No Value

Course Classification Code (CB11)

Funding Agency Category (CB23)

Not Applicable.

Cooperative Work Experience Education Status (CB10)

Variable Credit Course

Credit Course.

Weekly Student Hours

Course Student Hours

	In Class	Out of Class	Course Duration (Weeks)	18
Lecture Hours	1.5	3	Hours per unit divisor	0
Laboratory Hours	1.5	0	Course In-Class (Contact) Ho	urs 27
Studio Hours	0	0	Lecture	21

Laboratory	27			
Studio	0			
Total	54			
Course Out-of-Class I	Hours			
Lecture	54			
Laboratory	0			
Studio	0			
Total	54			
Time Commitmen	it Notes for Student	S		

No value

Units and Hours - Weekly Specialty Hours					
Activity Name Type In Class Out of Class					
No Value	No Value	No Value	No Value		

Pre-requisites, Co-requisites, Anti-requisites and Advisories

Advisory

MUSIC177 - Introduction To Music Technology (in-development)

Objectives

- Demonstrate a working knowledge of the basic concepts and terminology of music technology.
- Explain the fundamentals of sound including waveforms, frequency, amplitude, and harmonics.

Entry Standards		
Entry Standards		
No value		

Course Limitations	
Cross Listed or Equivalent Course	
No value	

Specifications	
Methods of Instruction Methods of Instruction	Lecture
Methods of Instruction	Laboratory
Methods of Instruction	Discussion
Methods of Instruction	Multimedia
Methods of Instruction	Collaborative Learning
Methods of Instruction	Demonstrations
Methods of Instruction	Field Activities (Trips)
Methods of Instruction	Guest Speakers
Methods of Instruction	Presentations

Out of Class Assignments

- Listening and analysis (e.g. listening to Dripsody and analyzing it for compositional techniques)
 Exercises (e.g. create an original patch using subtractive synthesis that can be modulated with an LFO)
- Projects (e.g. create a two minute project in a DAW that demonstrates a specific electronic composition practice using multiple synthesis techniques and effects processing)

Methods of Evaluation	Rationale			
Other	Class discussion			
Project/Portfolio	Midterm project eva	aluations		
Project/Portfolio	Final cumulative pro	oject evaluation		
Exam/Quiz/Test	Midterm examination	ons		
Exam/Quiz/Test	Final examination			
Textbook Rationale				
No Value				
Textbooks				
Author	Title	Publisher	Date	ISBN
Thom Holmes	Electronic and Experimental Music	Routledge	2020	978-1138365469
Other Instructional Materia	als (i.e. OER, handouts)			
No Value	, ,			
Materials Fee				
No value				
Learning Outcomes	and Ohioatives			

Learning Outcomes and Objectives
Course Objectives
Describe synthesis methods including subtractive, additive, frequency modulation (FM), wavetable, physical modeling, and granular.
Describe the principles of digital sampling.
Explain and demonstrate a variety of MIDI sequencing techniques.
Demonstrate various synthesis methods.
Demonstrate an ability to create original compositions and/or live performances using synthesis and/or MIDI sequencing techniques.

Explain and demonstrate effects processing in electronic music production.

Identify basic historical developments, individuals, and practices in electronic music.

SLOs

Assemble a collection of original synthesizer patches using multiple synthesis methods that demonstrates a variety of patch types.

Expected Outcome Performance: 70.0

Construct a unique and playable sampler patch that demonstrates mapping and velocity switching and is based on originally recorded sounds.

Expected Outcome Performance: 70.0

Arrange an original electronic music composition that demonstrates a specific compositional technique as well as proficiency with MIDI sequencing techniques and effects processing.

Expected Outcome Performance: 70.0

Additional SLO Information

Does this proposal include revisions that might improve student attainment of course learning outcomes?

Nο

Is this proposal submitted in response to learning outcomes assessment data?

No

If yes was selected in either of the above questions for learning outcomes, explain and attach evidence of discussions about learning outcomes.

No Value

SLO Evidence

No Value

Course Content

Lecture Content

History of Electronic Music (4.5 hours)

- Electronic before 1945
- Tape compositions
- Fundamental concepts of electronic music
- Analog synthesis and early synthesizers
- Digital synthesis and computer music
- Contemporary practices and styles of electronic music

Components of Synthesis (3 hours)

- Oscillators
- Filters
- Amplifiers

Modulation and Control (3 hours)

- Envelopes
- Low frequency oscillators (LFOs)
- Voltage control
- MIDI control
- Control routing
- Sequencing and gates

Synthesis Techniques (3 hours)

- Analog synthesis
- Digital synthesis
- Subtractive

- Additive
- FM (frequency modulation)
- Wavetable
- · Physical modeling
- Granular

Sampling and Samplers (1.5 hours)

- Multisampling and looping
- · Velocity switching
- Articulations and key switching
- Mapping

Effects Processing (4.5 hours)

- Dynamics
- Filters and equalization (EQ)
- Time and modulation effects
- Reverberation

MIDI and Sequencing (4.5 hours)

- Hardware
- Software
- Sequencing
- Editing
- Messages
- Specifications

Sound Design and Electronic Music Composition (3 hours)

- Listening and analysis of examples
- Sound design exercises Sound design projects
- Composition exercises
- Composition projects

Total hours: 27

Laboratory/Studio Content

Modulation and Control (2 hours)

- Envelopes
- Low frequency oscillators (LFOs)
- Voltage control
- MIDI control
- Control routing
- Sequencing and gates

Synthesis Techniques (2 hours)

- Analog synthesis
- Digital synthesis
- Subtractive
- Additive
- FM (frequency modulation)
- Wavetable
- Physical modeling
- Granular

Sampling and Samplers (2 hours)

- Multisampling and looping
- Velocity switching
- · Articulations and key switching
- Mapping

Sound Design and Electronic Music Composition (21 hours)

- Listening and analysis of examples
- Sound design exercises
- Sound design projects
- Composition exercises
- Composition projects

Total hours: 27