NYC College of Technology

The City University of New York Entertainment Technology Department

MUSIC TECHNOLOGY

Professor Elodie Lauten ENT 1260 Fall 2013

Fridays 10am-1:40pm Contact: elauten@yahoo.com 212-388-0202



Course Description

The course provides an introduction and overview of the basic techniques and components used in electronic music production. Students will work on individual workstations, having the opportunity to explore various kinds of music production software and acquire a working knowledge of GarageBand and Reason. The rudiments of music theory and methods for composition and arrangement will be reviewed. **Synthesis, Sequencing, Sampling**, and loop-based composition will be introduced. Also covered are elements of music technology history, a detailed presentation of the **MIDI** protocol and its applications, techniques for configuring hardware and software systems for optimal effectiveness, and the basics of mixing and producing music in a professional environment. The students are required to create several short pieces where they apply the production techniques they have learned as well as their own creativity.

Required Text

Musicianship in the Digital Age, Edstrom, Brent, Course Technology Ptr., 2005 ISBN: 1592009832

Additional Text:

Music Theory for Computer Musicians, Hewitt, Michael, Course Technology, 2008 ISBN-13: 1598635034

Required Tools (needed for every class):

Headphones (preferably not earbuds), USB flash drive to save your work

Grading

•	Labs & Assignments	20%
•	Midterm	20%
•	Creativity	10%
•	Attendance/Participation	25%
•	Final Project	25%

NOTE: Attendance to every class is required and will be reflected in grades. According to CUNY's policy, no more than three absences will be accepted to pass the class. Lateness or partial attendance will affect grades negatively.

Session	Topic*	Labs/Assignment	Reading
1 Aug 30	Lecture: Introduction/History of Electronic Music/Music questionnaire/Course goals		
2		Lab: Explore GarageBand	MUST PURCHASE BOOKS
Aug 30	NOTE: NO CLASSE	S ON FRIDAY, SEPTEMBER 6 AND SEPTEME	BER 13
3	Lecture: The Computer Music Studio		Musicianship in the Digital Age
Sep 20			Ch. 1: Computers and Software and
4		Lab: GarageBand Exercise	Ch. 2: Setting up a project studio
Sep 20		Quiz: Computers Exercise: Design Your Home Studio	
5	Lecture: Elements of Theory Part I		Musicianship in the Digital Age
Sep 27			Ch. 7: Loop-based production pp. 181-185
6		Lab Tutorial: Reason in Six Easy Steps	Music Theory for Computer Musicians Ch. 2, 8
Sep 27 7	Lecture: Elements of Theory Part II	Homework: Song Analysis	
Oct 4	Student presentations: Song Analysis		
8		Lab Tutorial: Create drum track with	
Oct 4		Reason's Redrum	
9 Oct 11	Lecture: MIDI Part I		<i>Musicianship in the Digital Age</i> Ch. 3: Introduction to MIDI
10		Lab Tutorial: Working with MIDI files	Ch. 4: Sequencing concepts
Oct 11		MIDI questionnaire/ Mid-term assignment explained	·····
11	Lecture: MIDI Part II		
Oct 18 12		Loh Dronoro Mid to ma finish and	
12 Oct 18		Lab: Prepare Mid-term – finish song, MIDI Questions Review	
13		MIDI Questions Review	
Oct 25	Mid Torm Students	needed their course and ensurer MIDL	witten augestienneize
14	wia-ierm – Students	s present their songs and answer MIDI w	nitten questionnaire
Oct 25			
15 Nov1	Lecture: Sampling		<i>Musicianship in the Digital Age</i> Ch 6: Music Synthesis pp. 166-174
16		Lab Tutorial: Create and map samples	Music Theory for Computer Musicians:
Nov 1		with Reason's NNXT	Ch. 1 Musical Sound
17	Lecture: Introduction to Synthesis Part I		
Nov 8		Lab Tutorial: Analog simulation	
18 Nov 8		with Reasons's Subtractor	
19			
Nov 15	Lecture: Introduction to Synthesis Part II		
20		Lab Tutorial: Mastering Reason's	
Nov 15 21	Lecture: Sequencing	Thor in Six Easy Steps	
21 Nov 22	Lecture: Sequencing		
22		Lab Tutorial: Step sequencers in	Musicianship in the Digital Age
Nov 22		Reason	Ch. 12 Sequencing Bass & Drum grooves
23	NOTE: THIS CLAS	SS TAKES PLACE ON WEDNESDAY, SAME SO	
23 Nov 27	Orchestration		
24		Lab Tutorial: Orchestration lab in	
Nov 27		Reason / Final project explained	
25	NOTE: NO CLASS	ON FRIDAY, NOVEMBER 29 – THANKSGIVING	
Dec 6			
26		Lab: Final Project: Create one song and	
Dec 6		one synthesizer patch	
27 Dec 13	Lecture: Composition Recap/ Music Technology Review		
28		Lab: Final Project: Create one song	
Dec 13		and one synthesizer patch	
29			
Dec 20	Final Project – Student present their songs and synthesizer patches		
30 Dec 20			