SYLLABUS

DATE OF LAST REVIEW: 02/11/2013
CIP CODE: 10.0203
SEMESTER: DEPARTMENTAL SYLLABUS
COURSE TITLE: Music Technology 1
COURSE NUMBER: AUDIO110
CREDIT HOURS: 3
INSTRUCTOR: DEPARTMENTAL SYLLABUS
OFFICE LOCATION: DEPARTMENTAL SYLLABUS
OFFICE HOURS: DEPARTMENTAL SYLLABUS
TELEPHONE: DEPARTMENTAL SYLLABUS
EMAIL: KCKCC issued email accounts are the official means for electronically communicating with our students.

PREREQUISITES: None

REQUIRED TEXT AND MATERIALS: Please check with the KCKCC bookstore, http://www.kckccbookstore.com/, for the required texts for your particular class.

COURSE DESCRIPTION: This class covers the Apple computer, MIDI and digital audio workstation (DAW) MIDI sequencing software, music notation and publishing software. Students will learn the function and operation of the Mac OS and the technical equipment found in a MIDI production studio, produce sequenced music projects and musical scores using specific industry software.

METHOD OF INSTRUCTION: A variety of instructional methods may be used depending on content area. These include but are not limited to: lecture, multimedia, cooperative/collaborative learning, labs and demonstrations, projects and presentations, speeches, debates, and panels, conferencing, performances, and learning experiences outside the classroom. Methodology will be selected to best meet student needs.

COURSE OUTLINE:
I. Digital Audio Workstation Computer Terminology
   A. Hardware components
B. Central processors  
C. Peripheral components  
D. Storage  
E. Memory  
F. Software  

II. The Apple Operating System  
A. File management  
B. Desktop  
C. System Preferences  
D. Printing  
E. Menus  
F. Keyboard shortcuts  

III. Essential Apple Skills  
A. Data entry  
B. Data formatting  
C. Data editing  
D. Graphics files  

IV. MIDI Topics  
A. Synthesizer specifications  
B. Synthesizer operational modes  
C. Auditioning sounds  
D. Audio, MIDI, and USB cables  
E. Setting up a studio  

V. Digital Audio Workstation MIDI sequencing software  
A. Tracks  
B. Channels  
C. Transport controls  
D. Note entry methods  
E. Editing methods  
F. Changing velocities  
G. Quantizing  

VI. Professional Notation Software  
A. Setting up a score  
B. Importing MIDI files  
C. The tool palette  
D. Note entry methods  
E. Editing  
F. Page layout and formatting  

EXPECTED LEARNER OUTCOMES:  
A. The learner will be able to explain digital audio workstation computer terminology and various hardware and software components.  
B. The learner will be able to describe the functions and features of the Apple operating system.  
C. The learner will be proficient at using the Apple computer for music production functions.  
D. The learner will be able to discuss various MIDI topics, including synthesizers, cabling, and setting up a DAW studio for music sequencing.
E. The learner will be able to create music using DAW MIDI sequencing software.
F. The learner will be able to create printed musical scores using professional industry standard notation software.

COURSE COMPETENCIES:

The learner will be able to explain digital audio workstation computer terminology and various hardware and software components.
1. The learner will be able to identify and discuss various hardware components necessary in a DAW.
2. The learner will be able describe characteristics of various central processing units.
3. The learner will be able to discuss the function of peripheral computer components.
4. The learner will be able to identify various means of storing computer data.
5. The learner will be able to define the function of computer memory.
6. The learner will be able to define the concept of software and list various types of commercially available specialist industry standard software.

The learner will be able to describe the functions and features of the Apple operating system.
7. The learner will be able to define the basic functions of file management carried out by the Apple OS.
8. The learner will be able to describe the desktop of the Apple OS.
9. The learner will be able to discuss the function of the systems preferences.
10. The learner will be able to print documents and create PDF files.
11. The learner will be able to list the functions of the desktop menus.
12. The learner will be able to memorize the various keyboard shortcuts commonly used on the OS.

The learner will be proficient at using the Apple computer for music production functions.
13. The learner will be proficient at data entry.
14. The learner will be able to properly format data.
15. The learner will be able to edit data.
16. The learner will be able to use graphics files.

The learner will be able to discuss various MIDI topics, including synthesizers, cabling, and setting up a DAW studio for music sequencing.
17. The learner will be able to define typical synthesizer specifications.
18. The learner will be able to demonstrate the various operational modes on a synthesizer.
19. The learner will be able to audition sounds on a synthesizer.
20. The learner will be able to discuss the different types of signals that are sent on audio and MIDI and USB cables.
21. The learner will be able to diagram the connections necessary to set up a DAW based MIDI sequencing studio that uses a computer and MIDI synthesizer.

The learner will be able to create music using DAW MIDI sequencing software.
22. The learner will be able to explain the concept of tracks within a sequencing program.
23. The learner will be able to explain the concept of channels within a sequencing program.
24. The learner will be able to use the transport controls within a sequencing program.
25. The learner will be able to enter notes and data using real time recording, step time recording, grid view, score view, and list view entry methods.
26. The learner will be able to edit data using grid view, score view, and list view entry methods.
27. The learner will be able to control and change note velocities.
28. The learner will be able to quantize music in a sequencing program.

The learner will be able to create printed musical scores using professional industry standard notation software.
29. The learner will be able to set up a score using templates and from a blank document.
30. The learner will be able to import MIDI files from other applications or the Internet into a notation program.
31. The learner will be able to define the functions of the tools in the Finale tool palette.
32. The learner will be able to enter music on the staff using various note entry methods.
33. The learner will be able to edit data using a variety of methods.
34. The learner will be able to format and print a Finale document using page layout functions.

ASSESSMENT OF LEARNER OUTCOMES: The methods of assessment will include, but not be limited to, homework assignments on music and non-music software to be done on the computer; Internet assignments; written exams; and final projects for composing music using sequencing software.

SPECIAL NOTES:

This syllabus is subject to change at the discretion of the instructor. Material included is intended to provide an outline of the course and rules that the instructor will adhere to in evaluating the student’s progress. However, this syllabus is not intended to be a legal contract. Questions regarding the syllabus are welcome any time.

Kansas City Kansas Community College is committed to an appreciation of diversity with respect for the differences among the diverse groups comprising our students, faculty, and staff that is free of bigotry and discrimination. Kansas City Kansas Community College is committed to providing a multicultural education and environment that reflects and respects diversity and that seeks to increase understanding.

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