SYLLABUS

DATE OF LAST REVIEW: 02/11/2013
CIP CODE: 10.0203
SEMESTER: DEPARTMENTAL SYLLABUS
COURSE TITLE: Audio Recording 1
COURSE NUMBER: AUDI0250
CREDIT HOURS: 3
INSTRUCTOR: DEPARTMENTAL SYLLABUS
OFFICE LOCATION: DEPARTMENTAL SYLLABUS
OFFICE HOURS: DEPARTMENTAL SYLLABUS
TELEPHONE: DEPARTMENTAL SYLLABUS
EMAIL ADDRESS: KCKCC issued email accounts are the official means for electronically communicating with our students.

PRE/CO-REQUISITE(S): AUDI0110 with a grade C or above.

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 course is an introduction to the recording studio, equipment, and recording techniques. Emphasis is placed on demonstrating an understanding of specific equipment and techniques through the completion of a sequence of assignments, leading to a group "band" recording session. Microphones, analog and digital equipment and recording systems, computer software, sound manipulation, and mixing and production techniques will be studied.

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. Introduction to equipment
   A. Hardware analog mixers
   B. Signal path
   C. Patchbay
   D. Microphone types
II. Concepts and terminology
   A. Human hearing
   B. Frequency
   C. Decibels
   D. Connectors
   E. Audio terminology
III. Microphone techniques
   A. Mono
   B. Coincident stereo
   C. Near coincident stereo
   D. Spaced techniques
   E. Recording voice
   F. Recording instruments
   G. Recording drums
IV. Recording devices
   A. CD-R recorder
   B. Hardware hard-drive recorder
V. Processing, effects and dynamics processing hardware
   A. EQ
   B. Compression
   C. Reverb
VI. Recording and mixing software
   A. Using stereo recording and editing software
   B. Using multi-track recording and editing software
   C. Processing plug-ins
VII. The recording session
   A. Planning
   B. Multi-track procedures
   C. Recording drums, bass, guitar, and voice
   D. Mixing

EXPECTED LEARNER OUTCOMES:
A. The learner will be able to discuss the hardware necessary for audio recording.
B. The learner will be able to discuss the concepts and terminology of audio recording.
C. The learner will be able to describe microphone placement and microphone techniques for recording various instruments.
D. The learner will be able to operate hardware recording devices.
E. The learner will be able to define various types of EQ, effects and dynamic processing.
F. The learner will be able to track and mix recordings using digital audio software.
G. The learner will be able to produce recordings of various band instruments and mix them into a finished band “demo” product.
COURSE COMPETENCIES:

The learner will be able to discuss the hardware necessary for audio recording.
1. The learner will be able to operate a hardware analog mixing console.
2. The learner will be able to trace audio signal paths.
3. The learner will be able to connect devices through an audio patchbay.
4. The learner will be able to define the characteristics of various types of microphones.

The learner will be able to discuss the concepts and terminology of audio recording.
5. The learner will be able to describe the range and characteristics of human hearing.
6. The learner will be able to discuss frequency.
7. The learner will be able to define decibels.
8. The learner will be able to distinguish various types of audio connectors.
9. The learner will be able to define and use audio terminology.

The learner will be able to describe microphone placements and microphone techniques for recording various instruments.
10. The learner will be able to apply mono microphone techniques in recording.
11. The learner will be able to apply coincident pair microphone techniques in recording.
12. The learner will be able to apply near coincident pair microphone techniques in recording.
13. The learner will be able to apply spaced pair microphone techniques in recording.
14. The learner will be able to set up the proper miking techniques to the human voice.
15. The learner will be able to set up the proper miking techniques to record various standard instruments.
16. The learner will be able to set up the proper miking techniques to record drums.

The learner will be able to operate hardware recording devices.
17. The learner will be able to use and discuss characteristics of a CD-R recorder.
18. The learner will be able to use and discuss characteristics of a hardware hard disc multi-track recorder.

The learner will be able to define various types of effects and dynamic processing.
19. The learner will be able to add equalization processing to a recording.
20. The learner will be able to add compression processing to a recording.
21. The learner will be able to add reverb processing to a recording.

The learner will be able to track and mix recordings using digital audio software.
22. The learner will be able to use stereo recording and editing software.
23. The learner will be able to use multi-track recording and editing software.
24. The learner will be able to use software plug-ins.

The learner will be able to produce recordings of various band instruments and mix them into a finished band “demo” product.
25. The learner will be able to plan and discuss a multi-track recording project with band members.
26. The learner will be understand and be able to discuss the procedures used in a multi-track recording session.
27. The learner will be able to produce a technically competent recording of a drum set, electric bass, electric guitar, and vocals.
28. The learner will be able to produce a technically competent mix of a modern band recording.

ASSESSMENT OF LEARNER OUTCOMES:
Student progress is evaluated by means that include, but are not limited to, exams, written assignments, and class participation.

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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