SYLLABUS

DATE OF LAST REVIEW: 02/11/2013

CIP CODE: 10.0203

SEMESTER: Departmental Syllabus

COURSE TITLE: Audio Engineering Critical Listening

COURSE NUMBER: AUDI0255

CREDIT HOURS: 1

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.

PREREQUISITE: AUDI0250 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 will develop critical listening and audio analysis aural skills. Pink noise and musical examples of different sonic manipulations of frequency content and image/dynamic changes will be studied. Commercial mixes will be analyzed against different criteria throughout the class. Historical production aesthetics will be placed in context by analyzing different production, mixing and mastering styles and comparing them to the present day.

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. Frequency Content Drills
   A. Pink Noise, frequency content boosts
   B. Pink Noise, frequency content attenuations
   C. Music Examples, frequency content boosts
   D. Music Examples, frequency content attenuations

II. Image Drills
   A. Mono, Stereo, Psuedo-stereo
   B. Polarity reversal.
   C. Addition and deletion of reverberation.
   D. Addition of delays.

III. Dynamic and Amplitude changes
   A. Amplitude changes.
   B. Addition of different types of compression.

IV. Commercial Mix Analysis
   A. Frequency content/frequency balance.
   B. Dynamics, limiting & hypercompression.
   C. The spacial environment of a stereo image.

EXPECTED LEARNER OUTCOMES:
A. The learner will be able to recognize frequency content changes in pink noise and music examples.
B. The learner will be able to recognize image changes in musical examples.
C. The learner will be able to correctly identify amplitude changes and the use of specific dynamics processing in musical examples.
D. The learner will be able to analyze mixes and understand how production aesthetics have changed over time.

COURSE COMPETENCIES:

Upon successful completion of this course:

The learner will be able to recognize frequency content changes in pink noise and music examples.
1. The learner will be able to correctly identify frequency content boosts in pink noise examples.
2. The learner will be able to correctly identify frequency content attenuations in pink noise examples.
3. The learner will be able to correctly identify frequency content boosts in music examples.
4. The learner will be able to correctly identify frequency content attenuations in music noise examples.

The learner will be able to recognize stereo image content and changes.
5. The learner will be able to correctly identify mono, stereo and pseudo-stereo images.
6. The learner will be able to correctly identify polarity reversal artifacts.
7. The learner will be able to correctly identify the addition and deletion of reverberation.
8. The learner will be able to correctly identify the source of a delay based image change.

*The learner will be able to recognize dynamic and amplitude changes.*
9. The learner will be able to correctly identify amplitude changes.
10. The learner be able to correctly identify different types of dynamics processing.

*The learner will be able to analyze commercial mixes.*
11. The learner will be able to discuss appropriate frequency content and frequency balance and how it has changed over time.
12. The learner will be able to identify and discuss dynamics processing and how it’s use has changed over time.
13. The learner will be able to analyze and plot the special environment of commercial stereo mixes.

**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.

Kansas City Kansas Community College offers equal educational opportunity to all students as well as serving as an equal opportunity employer for all personnel. Various laws, including Title IX of the Educational Amendments of 1972, require the college’s policy on non-discrimination be administered without regard to race, color, age, sex, religion, national origin, physical handicap, or veteran status and that such policy be made known.

Kansas City Kansas Community College complies with the Americans with Disabilities Act. If you need accommodations due to a documented disability, please contact the Director of the Academic Resource Center at 913-288-7670.