COURSE SYLLABUS

LAST REVIEW	Spring 2021
COURSE TITLE	Audio Recording 2
COURSE NUMBER	AUDI 0260
DIVISION	Arts, Communications, and Humanities
DEPARTMENT	AUDI
CIP CODE	10.0203
CREDIT HOURS	3.00

CONTACT HOURS/WEEK Class: X   Lab: X   Clinical: X

PREREQUISITES   AUDI0250 with a grade C or above.

COURSE PLACEMENT   Students must meet the correct placement measure for this course. Information may be found at: https://www.kckcc.edu/admissions/information/mandatory-evaluation-placement.html

COURSE DESCRIPTION
This course will build on the skills acquired in AUDI 250. Topics that will be studied include mixing techniques, microphone techniques, synchronization and console automation, auditory perception, studio acoustics and design considerations, location recording, and digital studio issues. An emphasis is placed on gaining skill at using industry specific hardware equipment.

KANSAS SYSTEMWIDE TRANSFER: AUDI 0260
The learning outcomes and competencies detailed in this course outline or syllabus meet or exceed the learning outcomes and competencies specified by the Kansas Core Outcomes Groups project for this course as approved by the Kansas Board of Regents.

PROGRAM ALIGNMENT
This course is part of a program aligned through the Kansas Board of Regents and Technical Education Authority. For more information, please visit: https://kansasregents.org/workforce_development/program-alignment

General Education Learning Outcome
☐ Basic Skills for Communication
☐ Mathematics
☐ Humanities
☐ Natural and Physical Sciences
☐ Social and Behavioral Sciences

Institutional Learning Outcomes

☐ Communication
☐ Computation and Financial Literacy
☐ Critical Reasoning
☐ Technology and Information Literacy
☐ Community and Civic Responsibility
☐ Personal and Interpersonal Skills

TEXTBOOKS

http://kckccbookstore.com/

METHODS 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, panels, conferencing, performances, and learning experiences outside the classroom. Methodology will be selected to best meet student needs.

COURSE OUTLINE

I. Mixing techniques
    A. Signal flow
    B. EQ
    C. Advanced console operation
    D. Stylistic/creative mixing
II. Miking techniques
    A. Miking drums
    B. Miking traditional "rock" instruments
    C. Small ensemble recording
III. Creative time-based studio effects
    A. Delay based effects
    B. Reverberation
IV. Dynamics processing
    A. Compression
    B. Gating
    C. Expansion
V. Location Recording
    A. Equipment
    B. Aesthetics
    C. Safe set-up
    D. Editing and concert documentation
VI. Synchronization
    A. SMPTE, MIDI Timecode, and word-clock synchronization
    B. Synchronizing hardware with the computer based DAWs
VII. Auditory Perception
    A. Directional cues

B. Harmonic distortion
C. Beats, combination tones, and masking
D. Pitch vs. frequency
VIII. High Resolution Audio
A. Technical specifications
B. Perceivable benefits
IX. Acoustics
A. Studio design characteristics
B. Acoustic treatments
C. Studio layout
X. Aural skills
A. Frequency range recognition within pink noise
B. Frequency range recognition within music
Critical listening skills and evaluation

COURSE LEARNING OUTCOMES AND COMPETENCIES
Upon successful completion of this course, the student will:
A. The learner will be able to use hardware mixing consoles and apply different mixing techniques in the recording studio.
B. The learner will be able to use microphones and various miking techniques appropriate to different settings.
C. The learner ;will abel to use time based studio effects creatively using recoding studio hardware.
D. The learner will be able to use hardware dynamics processors correctly.
E. The learner will be able to proficiently use and document concerts using specialist location recording hardware.
F. The learner will be able to describe synchronization and synchronize hardware recorders and computer bvased recording systems.

G. The learner will abel to discuss auditory perception issues and their affect on audio production and audio production techniques.

H. The learner will be able to discuss the benefits of high resolution audio formats.

I. The learner will be able to correct fundamental room acoustics problems in a recording situation.

J. The learner will develop specific aural skills relative to the field.

Course Competencies:
The learner will be able to use hardware mixing consoles and apply different mixing techniques in the recording studio.
1. The learner will be able to describe signal flow.
2. The learner will be able to discuss EQ and use it effectively.

3. The learner will be able to use advanced techniques to operate a hardware mixing console.
4. The learner will be able to discuss and employ different mixing styles.

The learner will be able to use microphones and various miking techniques appropriate to different settings.
5. The learner will be able to describe miking techniques for a rock drum set.
6. The learner will be able to correctly mike up common "rock" instruments.
7. The learner will be able to record small ensembles.

The learner will be able to use time-based studio effects creatively using recording studio hardware.
8. The learner will be able to creatively use delay based effects.
9. The learner will be able to creatively use artificial reverberation.

The learner will be able to use hardware dynamics processors correctly.
10. The learner will be able to discuss and use compression.
11. The learner will be able to discuss and use gating.
12. The learner will be able to discuss and use expansion.

The learner will be able to proficiently use and document concerts using specialist location recording hardware.
13. The learner will be able to use the various location recording equipment.
14. The learner will be able to discuss location recording aesthetics.
15. The learner will be able to safely set-up recording equipment in a public place.
16. The learner will be able to editing and document the concert appropriately.

The learner will be able to describe synchronization and synchronize hardware recorders and computer based recording systems.
17. The learner will be able to describe SMPTE, MIDI Timecode and word-clock synchronization.
18. The learner will be able to synchronize recording hardware devices with the computer based DAWs.

The learner will be able to discuss auditory perception issues and their affect on audio production and audio production techniques.
19. The learner will be able to discuss how one perceives directionality of a sound source, and how this illusion is recreated in a recorded production.
20. The learner will be able to discuss harmonic distortion and its affect on a listener.
21. The learner will be able to discuss beats, combination tones, and masking, and understand their relevance to an audio production.
22. The learner will be able to describe the difference between pitch and frequency.

The learner will be able to discuss the benefits of high resolution audio formats.
23. The learner will be able to discuss the technical specifications of high resolution audio.

24. The learner will be able to discuss the perceivable benefits of high resolution audio.

The learner will be able to correct fundamental room acoustic problems in a recording situation.
    25. The learner will be able to discuss studio design characteristics.
    26. The learner will be able to discuss acoustic treatments.
    27. The learner will be able to discuss studio layouts.

The learner will develop specific aural skills relative to the field.
    28. The learner will be able to recognize frequency ranges within pink noise.
    29. The learner will be able to recognize frequency ranges within music.
    30. The learner will be able to critically listening and evaluate recorded sound.

ASSESSMENT OF COURSE LEARNING OUTCOMES AND COMPETENCIES
Student progress is evaluated through both formative and summative assessment methods. Specific details may be found in the instructor's course information document.

COLLEGE POLICIES AND PROCEDURES
Student Handbook
https://www.kckcc.edu/files/docs/student-resources/student-handbook-and-code-of-conduct.pdf

College Catalog
https://www.kckcc.edu/academics/catalog/index.html

College Policies and Statements
https://www.kckcc.edu/about/policies-statements/index.html

Accessibility and Accommodations
https://www.kckcc.edu/academics/resources/student-accessibility-support-services/index.html.