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**Ohio Articulation Number (OAN)
Course Submission Form
2005-2006**



College/University Lakeland Community College

Course(s) Submitted(Title & Course #) MDIA 1400 Audio I: Intro. to Audio Production & Recording for
Ohio Articulation Number OCM 007

Date May 9, 2006 Course 7 of a 12 Course OAN mapping.

Name and title of individual submitting on behalf of the college/university

Name Marilyn S. Jones Title Associate Provost

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Credit Hours 3 qtr _____ sem X

Lecture Hours 2

Laboratory Hours 3 (if applicable)

Pre-Requisites(s) Course work (if applicable)

MDIA 1003 Intro. to the Multimedia Computer or permission of instructor

Placement Score (if applicable)

(Name of test)

(Domain) (Score)

Catalog/Course Description (Includes Course Title and Course #)

<p>MDIA 1400 Audio I: Intro. to Audio Production and Recording This course is an introduction to the operation and maintenance of professional and semi-professional audio recording equipment. Through lecture and a hands-on approach in various lab activities, the course explores musical, business, and session-planning skills.</p>

Students will realize recording projects through the use of stereo and multitrack analog and digital tape-based systems. The course also explores editing and mastering functions through the use of various computer-based (Windows and Macintosh integrated systems). It stresses professional outcomes through recording activities on campus, as well as a class project produced at a local, world-class audio recording facility.

Texts/Outside Readings/Ancillary Materials

Practical Recording Techniques by Bartlett 4th edition

Course Objectives and/or Plan of Work

GENERAL COURSE GOALS:

This course is designed to increase students' knowledge and applicational ability of the professional standards in studio audio recording and engineering through the associated processes of sound, hearing and critical listening. The concept of professionalism in the audio workplace and the applied knowledge the electronic components of sound recording, editing and mastering are delivered. The course will develop students' abilities to prepare all aspects of a broadcast media production using all appropriate techniques, procedures and equipment.

COURSE OBJECTIVES:

Upon completion of the course, the student should be able to:

1. Listen critically for details in a music recording.
2. Identify and describe instruments generally used in modern popular recording.
3. Recognize the forms of musical designs used most frequently.
4. Describe basic acoustic principles and formulae.
5. Explain the function and design of microphones.
6. Effectively use microphones.
7. Explain the signal flow through the recording chain.
8. Use a mixing console and explain its input and output functions.
9. Engineer stereo and multitrack tape recordings.
10. Describe and use signal processing

11. Operate various computer-based audio editing and mastering systems.

12. Critique, by professional standards, the products and procedures developed in a recording session.

13. Identify and discuss professional business aspects of the modern broadcast media industry.

Description of Assessment and/or Evaluation of Student Learning

Attendance/classroom participation
Project participation
Recording Session participation
Reading and assignments
Tests (30-50%)

Master Syllabi and Working Syllabi (if both are used)

LAKELAND COMMUNITY COLLEGE - COURSE OUTLINE FORM

ORIGINATION DATE: 08/02/99 APPROVAL DATE:
03/04/02
LAST MODIFICATION DATE: 04/24/02 EFFECTIVE TERM/YEAR: WINTER
2002

PRINTED:

04/27/06
COURSE NUMBER: MDIA1400
COURSE TITLE: Audio I: Introduction to Audio Production and
Recording

	LECTURE	LAB	CLINICAL	TOTAL	OBR MIN
OBR MAX					
CREDITS:	2.00	1.00	0.00	3.00	0.00
3.00					
CONTACT HOURS:	2.00	3.00	0.00	5.00	

PREREQUISITES:
MDIA1003 OR PERMISSION OF INSTRUCTOR

PROGRAMS & CERTIFICATES FOR WHICH THIS COURSE IS REQUIRED:
NONE

PROGRAMS & CERTIFICATES FOR WHICH THIS COURSE IS AN ELECTIVE:

NONE

COURSE ACCEPTED AS TRANSFER CREDIT BY:

RECOMMENDED CLASS SIZE: 12 RATIONALE: LAB SPACE

FREQUENCY OF OFFERING: 2 X YEAR
TERMS NORMALLY OFFERED: FALL SPRING

LAB FEE: 83.00

RATIONALE FOR COURSE:

Many young musicians seek training and experience in today's recording industry. As a requirement for one of the Media Technology Certificates, this course provides the technical and real-world skills necessary for the Audio portion of the curriculum. Our in-house facility plays an important role in the course, offering full professional digital audio production and editing capabilities. The level of achievement demonstrated in the course has made it one of the most recognized audio education programs in the United States.

COURSE DESCRIPTION:

This course is an introduction to the operation and maintenance of professional and semi-professional audio recording equipment. Through lecture and a hands-on approach in various lab activities, the course explores musical, business, and session-planning skills. Students will realize recording projects through the use of stereo and multitrack analog and digital tape-based systems. The course also explores editing and mastering functions through the use of various computer-based (Windows and Macintosh) integrated systems. It stresses professional outcomes through recording activities on campus, as well as a class project produced at a local, world-class audio recording facility.

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 7. Explain the signal flow through the recording chain.
 8. Use a mixing console and explain its input and output functions.
 9. Engineer stereo and multitrack tape recordings.
 10. Describe and use signal processing
 11. Operate various computer-based audio editing and mastering systems.
 12. Critique, by professional standards, the products and procedures developed in a recording session.
 13. Identify and discuss professional business aspects of the modern broadcast media industry.
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COURSE OUTLINE:

- I. Introduction to Audio Devices
 - A. The Signal Chain
 - B. Electronics and Electricity
 - 1. Electrical Flow
 - 2. Direct Current
 - 3. Alternating Current
 - C. Microphones
 - 1. Types
 - 2. Polar patterns
 - 3. Sensitivity
 - 4. Applied patterns
 - 5. Placements for various instruments
 - D. Wires and Patchbays
 - 1. Patchbays and "Normalized" connections
 - 2. Balanced and Unbalanced lines
 - 3. Phantom Power
 - 4. Connectors and Cables
 - E. The Mixing and Recording Console
 - 1. Design
 - a. Dual In-Line (Direct)
 - b. Multi-bus Return (Split)
 - c. Sound Reinforcement
 - 2. Use and Application
 - a. The Channel Strip
 - b. Sub-Group Mix Pathways
 - c. Direct Outputs
 - d. Auxiliary Sends and Returns
 - e. The Headphone Mix
 - F. Digital and Analog Tape Recorders
 - 1. Function and Characteristics of Magnetic Tape
 - 2. Operation of Tape Machines
 - 3. Machine Maintenance
 - G. The Computer Audio Workstation
 - 1. History, design and significance
 - 2. Musical applications in audio editing
 - 3. Commercial applications in audio editing
 - 4. Presentation of applications in music composition.
 - H. Signal Processing
 - 1. Insert Devices (gates & compressors)
 - 2. Side Chain Devices (reverb processors)
- II. Basic Production
 - A. History and Current Trends
 - 1. Survey developments in pop music production
 - 2. Practical demonstrations of advancements in the field
 - B. Listening
 - 1. Familiarize students with advancements made in sound reproduction.
 - 2. Critically listen for popular production techniques
 - 3. Critically listen for arrangement devices employed

- involved
- C. Application
4. Critically listen for audio technique
- be used
1. Preparation of materials and information to
in production
2. Study of efficient handling of information.
3. Time and Track management
4. Documentation by means of musical score,
lyric or
lead sheet
5. Realization of the musical production
-

INSTRUCTIONAL PROCEDURES THAT MAY BE UTILIZED:

Lectures
Hands-on activities
Guest demonstrations
Multimedia presentations

SUGGESTED GRADING PROCEDURES:

Attendance/classroom participation
Project participation
Recording Session participation
Reading and assignments
Tests (30-50%)

SUGGESTED COURSE EVALUATION PROCEDURE:

Initial Student Questionnaire/evaluation for comparative analysis
to final
exam questions.

[End of Course Outline for 'MDIA1400']

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COURSE OUTLINE -- GENERAL EDUCATION OUTCOMES

COURSE ID: MDIA1400
04/27/06

PRINTED:

TITLE: Audio I: Introduction to Audio Production and
Recording

General Education
of |

Assessment	

*** KNOWLEDGE ***	

1. Arts and Literature	
	- - - -
- - - -	
2. Complexities of Human Behavior	
	- - - -
- - - -	
3. Complexities of Social Institutions	
	- - - -
- - - -	
4. Math and Science	
	- - - -
- - - -	
5. Past and Present Cultures	
	- - - -
- - - -	
6. Technology	1 2
6 8	

*** CRITICAL THINKING ***	

7. Identify Personal Assumptions	
	- - - -
- - - -	
8. Identify Ethical Dimensions	
	- - - -
- - - -	
9. Examine Issues by Suspending/Challenging Assumpt	
	- - - -
- - - -	
10. Evaluate Issues from Various Perspectives	
	- - - -
- - - -	
11. Collect, Analyze, Interpret Information	
6	- - - -
- - - -	
12. Support Hypotheses	

	- - - - -
- - - -	
13. Synthesize Information	1 2
6 8	
	- - - - -
- - - -	
14. Draw Conclusions	1 2
6 8	

*** COMMUNICATION SKILLS ***	

15. Speak Clearly and Effectively	
	- - - - -
- - - -	
16. Read with Comprehension	
	- - - - -
- - - -	
17. Write Clearly & Effectively in Standard English	
	- - - - -
- - - -	
18. Work Effectively in Groups	
	- - - - -
- - - -	
19. Listen Actively and with Understanding	1 2
6 8	
	- - - - -
- - - -	
20. Practice Effective Interpersonal Skills	
	- - - - -
- - - -	
21. Interpret/Use Graphic Communication	
	- - - - -
- - - -	
22. Use Technology-Based Communication	

Methods of Assessment codes:	

1. Test/Examination 4. Collaborative Writing 7. Portfolio	
2. Homework/Written 5. Oral Presentation 8.	

Demonstration of				Skills
	Assignment			
	3. Research Paper		6. Lab Project	9. Other
(specify)				

<input type="checkbox"/> 16D				

Additional Documentation

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OBR Use	Action
Approved	
Additional Information Requested	
Rejected	
Date	

