

# LANEY COLLEGE COURSE OUTLINE

<b>COLLEGE:</b>		<b>STATE APPROVAL DATE:</b>	05/11/2018
<b>ORIGINATOR:</b>	Vina Cera	<b>STATE CONTROL NUMBER:</b>	CCC00059 3393
		<b>BOARD OF TRUSTEES APPROVAL DATE:</b>	05/08/2018
		<b>CURRICULUM COMMITTEE APPROVAL DATE:</b>	03/02/2018
		<b>CURRENT EFFECTIVE DATE:</b>	08/01/2018

## DIVISION/DEPARTMENT:

### 1. REQUESTED CREDIT CLASSIFICATION:

Credit - Degree Applicable  
Course is not a basic skills course.  
Program Applicable

### 2. DEPT/COURSE NO:

MEDIA 165

### 3. COURSE TITLE:

AV Essentials I

### 4. COURSE: Laney New Course

**TOP NO.** 0699.00\*

### 5. UNITS: 3.000

**HRS/WK LEC:** 2.00 Total: 35.00

**HRS/WK LAB:** 3.00 Total: 52.50

**HRS/WK TBA:**

### 6. NO. OF TIMES OFFERED AS SELETED TOPIC: AVERAGE ENROLLMENT:

### 7. JUSTIFICATION FOR COURSE:

There is a large demand for information presented through video, audio and digital media in all sectors of the economy, in the state, the country and world wide. Education, corporate, government and military markets, to mention the top few, all require the basic entry skills our new courses and program offer. Since we already teach much of this content in our other programs, this rapidly growing industry is a natural extension for us.

### 8. COURSE/CATALOG DESCRIPTION

Fundamentals of AV: Signal flow, rack installation of audio, video, and IT components, cable construction, basic low voltage electrical systems and requirements, working with clients.

### 9. OTHER CATALOG INFORMATION

- a. Modular: No If yes, how many modules:
- b. Open entry/open exit: No
- c. Grading Policy: Both Letter Grade or Pass/No Pass
- d. Eligible for credit by Exam: No
- e. Repeatable according to state guidelines: No
- f. Required for degree/certificate (specify):  
AudioVisual Technologist
- g. Meets GE/Transfer requirements (specify):  
Acceptable for credit: CSU
- h. C-ID Number: Expiration Date:

- i. Are there prerequisites/corequisites/recommended preparation for this course? Yes  
Date of last prereq/coreq validation: 03/02/2018

### 10. LIST STUDENT PERFORMANCE OBJECTIVES (EXIT SKILLS): (Objectives must define the exit skills required of students and include criteria identified in Items 12, 14, and 15 - critical thinking, essay writing, problem solving, written/verbal communications, computational skills, working with others, workplace needs, SCANS competencies, all aspects of the industry, etc.)(See SCANS/All Aspects of Industry

Worksheet.)

Students will be able to:

1. Explain and apply sound processing in both digital and analog work environments.
2. Explain and apply various video signals, displays and distribution
3. Construct Audio and Video cables
4. Connect and position AV components
5. Operate tools used for measurement, installation and distribution
6. Evaluate a site environment according to a customer's needs

**11A. COURSE CONTENT:** List major topics to be covered. This section must be more than listing chapter headings from a textbook. Outline the course content, including essential topics, major subdivisions, and supporting details. It should include enough information so that a faculty member from any institution will have a clear understanding of the material taught in the course and the approximate length of time devoted to each. There should be congruence among the catalog description, lecture and/or lab content, student performance objectives, and the student learning outcomes. List percent of time spent on each topic; ensure percentages total 100%.

**LECTURE CONTENT:**

Overview of the AV Technology Industry and Opportunities for Employment 5%

Analysis of Audio, Video, Networking Essentials 25%

( Audio: audio essentials, tone, pitch, frequency, wavelength, amplitude, loudness, properties of acoustics)

Video: Vision, Light, Displays)

Video/Audio Signals, Controls, Outputs, Distribution 35%

Electrical Systems and Radio Waves 15%

Working with Clients 20%

(Clients' Needs: Site Surveys/Evaluations/Environment, Initial AV Scopes)

**11B. LAB CONTENT:**

Construction of audio systems including cabling and placement 25%

Construction of video systems including cabling and placement 25%

Connecting, placing and testing audio and video setups 30%

AV Math 10%

Conducting a site survey 10%

**12. METHODS OF INSTRUCTION** (List methods used to present course content.)

1. Field Experience
2. Activity
3. Lecture
4. Lab
5. Observation and Demonstration
6. Discussion
7. Critique
8. Projects
9. Field Trips

- 10. Visiting Lecturers
- 11. Multimedia Content

- 13. ASSIGNMENTS:** 4.00 hours/week (List all assignments, including library assignments. Requires two (2) hours of independent work outside of class for each unit/weekly lecture hour. Outside assignments are not required for lab-only courses, although they can be given.)  
Out-of-class Assignments:  
job shadowing if available

ASSIGNMENTS ARE: (See definition of college level):  
Primarily College Level

- 14. STUDENT ASSESSMENT:** (Grades are based on):  
ESSAY (Includes "blue book" exams and any written assignment of sufficient length and complexity to require students to select and organize ideas, to explain and support the ideas, and to demonstrate critical thinking skills.)  
COMPUTATION SKILLS  
NON-COMPUTATIONAL PROBLEM SOLVING (Critical thinking should be demonstrated by solving unfamiliar problems via various strategies.)  
SKILL DEMONSTRATION

**15. TEXTS, READINGS, AND MATERIALS**

A. Textbooks:

Grimes, Brad. *CTS Certified Technology Specialist Exam Guide*. 2nd McGraw Hill, 2013.  
Rationale: This is the most current edition.

\*Date is required: Transfer institutions require current publication date(s) within 5 years of outline addition/update.

B. Additional Resources:

Library/LRC Materials and Services:

The instructor, in consultation with a librarian, has reviewed the materials and services of the College Library/LRC in the subject areas related to the proposed new course

Are print materials adequate? Yes

Are nonprint materials adequate? Yes

Are electronic/online resources available? Yes

Are services adequate? Yes

Specific materials and/or services needed have been identified and discussed. Librarian comments:  
Text in outline is currently being updated to a 3rd edition, so please check before ordering 2nd edition. Please provide a list of recent, recommended supplementary (non-textbook) titles to the acquisitions librarian.

C. Readings listed in A and B above are: (See definition of college level):

Primarily college level

**16. DESIGNATE OCCUPATIONAL CODE:**

C - Occupational

**17. LEVEL BELOW TRANSFER:**

Y = Not Applicable

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**SUPPLEMENTAL PAGE**

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Use only if additional space is needed. (Type the item number which is to be continued, followed by "continued."  
Show the page number in the blank at the bottom of the page. If the item being continued is on page 2 of the

outline, the first supplemental page will be "2a." If additional supplemental pages are required for page 2, they are to be numbered as 2b, 2c, etc.)

1a. Prerequisites/Corequisites/Recommended Preparation:

**RECOMMENDED PREPARATION:**

MEDIA 104: Beginning Digital Video Production  
MEDIA 111: Basic Audio Production

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**STUDENT LEARNING OUTCOMES**

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1. **Outcome:** Employ current industry best practices in video, audio and networking AV installations

*This outcome maps to the following Institution Outcomes:*

- Career Technical Education - Students will demonstrate technical skills in keeping with the demands of their field of study.

**Assessment:** Instructor evaluation of student projects employing video, audio and networking systems

2. **Outcome:** Design and test an AV control system.

**Assessment:** Instructor evaluation of AV installation assignments and projects, appropriate test questions regarding AV installation systems

3. **Outcome:** Practice team cooperation and creative thinking skills in performance of AV installation

**Assessment:** Instructor evaluation of project assignments from the perspective of team cooperation and problem solving in AV installation assignments

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