I. **OVERVIEW**  
The following information will appear in the 2010 - 2011 catalog

**RATV 142**  
**Light, Sound, Camera, & Editing Workshop**  
3 Units

Formerly listed as: RATV - 142: Light, Sound, Camera and Editing Workshop

Designed to explore the fundamental technical and aesthetic principles of lighting, sound, editing and camera operation. Expanded knowledge in the areas of technical planning, interior and exterior lighting design, sound recording and enhancement techniques, composing dynamic images with a camera and final digital editing. Prepares students for work in film, television and digital production.

Field trips might be required.  (A-F or P/NP - Student choice) Lecture  
Transfer: (CSU) General Education: (MJC-GE: Activities )

II. **LEARNING CONTEXT**  
Given the following learning context, the student who satisfactorily completes this course should be able to achieve the goals specified in Section III, Desired Learning:

A. **COURSE CONTENT**

1. **Required Content:**

   a. Cameras (ENG/EFP)
      i. Basic Camera Features (power, rec., controls, menus, gain, etc.)
      ii. Lenses and Filters
      iii. Formats (analog-digital-HD) and technical considerations
      iv. Recording Media, Timecode
      v. Camera Supports (tripods, dollies and cranes)
      vi. Care of Equipment

   b. Approaches to Image Capturing
      i. Shot Determination
      ii. Lens Selection (focal length, depth of field)
      iii. Camera Angles
      iv. Composing Within the Static Frame
      v. Camera Movements
      vi. Shooting to Edit
      vii. Shooting for Visual Effects
c. Lighting
   i. Getting Correct Exposure (foot candles, F-stops, exposure index)
   ii. Measuring Light (incident, reflective, spot meters)
   iii. The Color of Light (color temperature, Kelvin scale, tungsten-daylight)
   iv. Lighting Instruments (types, lamps, light controls and mounts)
   v. Lighting Safety

d. Approaches to Lighting
   i. Lighting Styles
   ii. Three Point Lighting
   iii. Lighting for Film, SDTV, and HDTV
   iv. Preparing to Light
   v. Outdoor and Indoor Lighting
   vi. Lighting for Movement and Visual Effects
   vii. Lighting Continuity, Matching Color Sources

e. Sound (microphones and recorders)
   i. Nature of Sound (pitch, frequency, loudness, amplitude, timber)
   ii. Microphones (characteristics and placement)
   iii. Cables and Connectors
   iv. Recorders, Audio Mixers
   v. Care of Audio Equipment

f. Approaches to Sound Recording
   i. Elements of Microphone Pickup
   ii. Eliminating Unwanted Noises
   iii. Miking Dialogue (Automatic Dialogue Replacement)
   iv. Miking Voice-Overs, Sound Effects, Foley, Ambient Sound, Music
   v. Recording Techniques

g. Editing
   i. Preparing for Computer Editing
   ii. Logging, Capturing, Cutting Clips Together
   iii. Outputting the Project
   iv. Building a DVD
h. Approaches to Editing
   i. Editing Styles (classic Hollywood pattern and variations to that pattern)
   ii. Editing Elements (continuity, shot selection, shot relationships, screen direction, cutting points, pacing, time and space, transitions)

B. HOURS AND UNITS

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C. METHODS OF INSTRUCTION (TYPICAL)
Instructors of the course might conduct the course using the following method:

1. Lecture
2. Discussion
3. Demonstrations and hands-on exercises
4. Guest speakers (industry experts)
5. Show examples of professional work

D. ASSIGNMENTS (TYPICAL)

1. **EVIDENCE OF APPROPRIATE WORKLOAD FOR COURSE UNITS**
   *Time spent on coursework in addition to hours of instruction (lecture hours)*
   a. Weekly reading assignments of text, handouts and/or Internet sources.
   b. Research and write 1-page report on area of interest in each section (4 total).
   c. Create visual presentation on DVD for each section (light, sound, camera and edition) to demonstrate proficiency and ability to apply newly learned techniques.
   d. Weekly research of professional techniques - bring examples of highlighted techniques(s)
   e. Writing assignments and preparation for quizzes for each section.

2. **EVIDENCE OF CRITICAL THINKING**
   *Assignments require the appropriate level of critical thinking*
   a. Write an essay or prepare a video recording that cites examples of 3 or more lighting styles/techniques.
   b. Describe the elements of lighting that indicates time and place.
   c. Analyze how the lighting can set mood.
   d. EXAM QUESTION: Analyze the lighting techniques in the projection room scenes the CITIZEN KANE. Describe in detail, how you would light the scene using contemporary lighting
instruments. Describe how the lighting made this film so compelling.

E.  **TEXTS AND OTHER READINGS (TYPICAL)**


III.  **DESIRED LEARNING**

A.  **COURSE GOAL**

*As a result of satisfactory completion of this course, the student should be prepared to:*

- use their knowledge towards producing quality digital media projects. With expanded opportunities to apply their skills in the areas of lighting, sound, camera operation and editing during class exercises and individual projects, the student should be prepared for an introductory level position in the film, television and digital production industry.

B.  **STUDENT LEARNING GOALS**

*Mastery of the following learning goals will enable the student to achieve the overall course goal.*

1.  **Required Learning Goals**

*Upon satisfactory completion of this course, the student will be able to:*

a.  Demonstrate skill in operation and composition while using a digital video camera

b.  Demonstrate skill in selecting and placement of microphones, sound design and recording

c.  Demonstrate skill in selection and placement of lighting instruments to enhance image quality

d.  Demonstrate skill in editing class assignments

e.  Critically analyze and critique professional work in the areas of sound, lighting, camera and editing

2.  **Recommended Learning Goals**

*Upon satisfactory completion of the course (when the related recommended content is covered) the student will be able to:*

a.  Field trips may be included to visit professional production companies and businesses who specialize in lighting, sound, digital camera work and editing.

IV.  **METHODS OF ASSESSMENT (TYPICAL)**

A.  **FORMATIVE ASSESSMENT**

1.  Tests from required text (average 4 per semester)

2.  Review of writing assignments

3.  Class participation in demonstration exercises and four individual projects

4.  Field Trips to professional production companies

B.  **SUMMATIVE ASSESSMENT**

1.  Student will participate in producing four individual presentations to highlight their skills in the areas
of sound, lighting, camera operation and editing. Presentations will be critiqued by class and instructor.