

**STATE UNIVERSITY OF NEW YORK
COLLEGE OF TECHNOLOGY
CANTON, NEW YORK**



MASTER SYLLABUS

**COURSE NUMBER – COURSE NAME
GMMD 311 – Video Effects and Post-Production**

Created by: Morgan Elliot

Updated by: Christopher Sweeney

Canino School of Engineering Technology

Department: Decision and Graphic Media Systems

Semester/Year: Fall 2018

- A. **TITLE:** Video Effects and Post-Production
- B. **COURSE NUMBER:** GMMD 311
- C. **CREDIT HOURS:** (Hours of Lecture, Laboratory, Recitation, Tutorial, Activity)

Credit Hours: 3
Lecture Hours: 3 per week
Lab Hours: per week
 Other: per week

Course Length: 15 Weeks

- D. **WRITING INTENSIVE COURSE:** Yes No
- E. **GER CATEGORY:** None: Yes: GER
If course satisfies more than one: GER
- F. **SEMESTER(S) OFFERED:** Fall Spring Fall & Spring

G. **COURSE DESCRIPTION:**

This course is an introductory course that will include broadcast and film standards, equipment function, and basic aesthetics. The coursework will focus on properly utilizing camera specifications, basic lighting concepts, and audio equipment settings. Students will learn aesthetic techniques and be expected to combine those techniques with their knowledge of the basic equipment

- H. **PRE-REQUISITES:** None Yes If yes, list below:

CO-REQUISITES: None Yes If yes, list below:

I. STUDENT LEARNING OUTCOMES: (see key below)

By the end of this course, the student will be able to:

<u>Course Student Learning Outcome</u> <u>[SLO]</u>	<u>Program Student Learning Outcome</u> <u>[PSLO]</u>	<u>GER</u> <i>[If Applicable]</i>	<u>ISLO & SUBSETS</u>	
Demonstrate basic camera functions through readings, lectures, and hands-on application.	Professional Detail		5-Ind, Prof, Disc, Know Skills ISLO ISLO	Subsets Subsets Subsets Subsets
Evaluate aesthetic variables of video based on industry examples.	Design Critique		5-Ind, Prof, Disc, Know Skills ISLO ISLO	Subsets Subsets Subsets Subsets
Create lighting setups for both interviews and dramatic settings.	Professional Detail		5-Ind, Prof, Disc, Know Skills ISLO ISLO	Subsets Subsets Subsets Subsets
Demonstrate the use of audio equipment for interviews, location shooting, and foley work.	Professional Detail		5-Ind, Prof, Disc, Know Skills ISLO ISLO	Subsets Subsets Subsets Subsets
Recognize practical uses of equipment for different production scenarios.	Professional Detail		5-Ind, Prof, Disc, Know Skills ISLO ISLO	Subsets Subsets Subsets Subsets
Apply equipment knowledge and techniques to on set production.	Professional Detail		5-Ind, Prof, Disc, Know Skills ISLO ISLO	Subsets Subsets Subsets Subsets

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KEY	<u>Institutional Student Learning Outcomes [ISLO 1 – 5]</u>
ISLO #	ISLO & Subsets
1	Communication Skills Oral [O], Written [W]
2	Critical Thinking <i>Critical Analysis [CA] , Inquiry & Analysis [IA] , Problem Solving [PS]</i>
3	Foundational Skills <i>Information Management [IM], Quantitative Lit./Reasoning [QTR]</i>
4	Social Responsibility <i>Ethical Reasoning [ER], Global Learning [GL], Intercultural Knowledge [IK], Teamwork [T]</i>
5	Industry, Professional, Discipline Specific Knowledge and Skills

*Include program objectives if applicable. Please consult with Program Coordinator !

J. **APPLIED LEARNING COMPONENT:** Yes No

If YES, select one or more of the following categories:

- | | |
|---|---|
| <input type="checkbox"/> Classroom/Lab | <input type="checkbox"/> Civic Engagement |
| <input type="checkbox"/> Internship | <input checked="" type="checkbox"/> Creative Works/Senior Project |
| <input type="checkbox"/> Clinical Placement | <input type="checkbox"/> Research |
| <input type="checkbox"/> Practicum | <input type="checkbox"/> Entrepreneurship |
| <input type="checkbox"/> Service Learning | (program, class, project) |
| <input type="checkbox"/> Community Service | |

K. **TEXTS:**

Sight, Sound, Motion: Applied Media Aesthetics (The Wadsworth Series in Broadcast and Production) Herbert Zettl ISBN-13 978-1133307358 ISBN-10: 113330735
Edition: Seventh Edition

The Digital Filmmaking Handbook Sonja Schenk & Ben Long
ISBN-13 978-1305258716 ISBN-10 1305258711 Edition: Fifth Edition

L. **REFERENCES:**

Films from campus library/Video Streaming Service

M. **EQUIPMENT:** None **Needed:** University supplied equipment, canon t3i dslr cameras, sony nxcr camcorder, rode shotgun microphones, cowboy studio soft boxes and led light panels

N. **GRADING METHOD:** A-F

O. **SUGGESTED MEASUREMENT CRITERIA/METHODS:**

- **Final Project**
- **Midterm**
- **Weekly Assignments**
- **Progress**
- **Participation**

P. **DETAILED COURSE OUTLINE:**

- I. **Week 1: Broadcast and Film Standards**
- A. **Resolution**
 - B. **Frame rates**
 - C. **Aspect Ratio**
 - D. **NTSC vs PAL**
 - E. **Codecs**
 - F. **File types and File Size**
 - G. **Introduce Weekly Assignment Expectations**

- II. Week 2: Camera Basics One**
 - A. Aperture/Iris**
 - B. F-stop**
 - C. Focusing, Depth of Field**
 - D. White balancing**
 - E. Assignment 1: Analysis of designated film clip**

- III. Week 3: Camera Basics Two**
 - A. Sensor and ISO**
 - B. RGB curves**
 - C. Waveform monitor**
 - D. Hands-on Learning (Split into groups, work with equipment)**
 - E. Assignment 2: Analysis of designated film clip**

- IV. Week 4: Camera Mounts and Movement**
 - A. Using a tripod**
 - B. Using shoulder mount**
 - C. Stabilizers**
 - D. Pan, Tilt, Dolly, Truck, Crane**
 - E. Assignment 3: Analysis of designated film clip**

- V. Week 5: Frame Composition and Sequences**
 - A. Rule of thirds**
 - B. Headroom/Leading room**
 - C. Cross Camera Cutting/180 degree rule**
 - D. Single camera setup**
 - E. Assignment 4: Analysis of designated film clip**

- VI. Week 6: Specifications (What to look for when choosing cameras and lenses)**
 - A. Color (Bit) Depth**
 - B. Dynamic Range**
 - C. Resolution and Framerates**
 - D. Low Light Capabilities**
 - E. Zoom and Prime Lenses**
 - F. F-stop, Depth of Field**
 - G. Compression**
 - H. Assignment 5: Comparative Analysis of (2) clips, focusing on Specs.**

- VII. Week 7: Audio**
 - A. Types of microphones and their uses**
 - B. Methods of capturing audio**
 - C. Monitoring audio levels**
 - D. Types of audio files**
 - E. Assignment 6: Audio analysis of designated film clip**

- VIII. Week 8: Lighting and Midterm**
 - A. Midterm Exam (Weeks 1-7)**
 - B. Assign Final Project**

- C. Types of lights and their uses
- D. Lighting for interviews
- E. Dramatic lighting

IX. Week 9: Lighting Two

- A. Practical lighting
- B. Reflectors and natural light
- C. Color Temperature
- D. Assignment 7: Analysis of lighting in designated film clip

X. Week 10: Aesthetic Choices One

- A. Telephoto vs. Wide Angle
- B. Lines
- C. Framing
- D. Angles
- E. Assignment 8: Analysis of aesthetic choices in designated film clip

XI. Week 11: Aesthetic Choices Two

- A. Perspective, horizon lines
- B. Timing, pace
- C. Space
- D. Assignment 9: Analysis of aesthetic choices in designated film clip

XII: Week 12: Aesthetic Choices Three

- A. Blocking
- B. Camera Movement
- C. X, Y, Z orientation
- D. Depth
- E. Assignment 10: Analysis of aesthetic choices in designated film clip

XIII: Week 13: Aesthetic Choices Four

- A. Sound as an indicator
- B. Ambient Sound
- C. Music
- D. Narration

XIV: Week 14: View and Critique Final Projects

XV: Week 15: View and Critique Final Projects

Q. LABORATORY OUTLINE: None Yes