



RTV 2251 - Video Operations & Optics

This course introduces students to foundational camera tools and techniques through hands-on training and conceptual exploration. Students will gain practical experience with professional systems starting with the BMPCC 6K Pro. Students will learn camera settings, exposure, white balance, lenses, audio, motion, and post-production workflows. The course emphasizes transferable skills applicable to any camera system, setting students up for success in future curriculum and the workforce.

WELCOME!

MY CONTACT INFORMATION

Instructor: Alyson Larson
Contact: alandry@jou.ufl.edu, 813-495-1241
Office: G215; back room
Hours: Monday 9-11 a.m.; please make an appointment if office hours are needed

CLASS TIMES

January 05 - February 27
Days: R | Period 5 - 6 (11:45 AM - 1:40 PM)

TEXTBOOKS

All readings and videos will be available in Canvas. Students are required to check Canvas for weekly materials, assignments, and video links.

HARDWARE & SOFTWARE

Students need access to a laptop capable of running Adobe Premiere Pro or Davinci Resolve and cloud-based tools such as Google Drive. Students will have access to the Mac editing labs in G215 and 3324.

An external USB-C hard drive with at least 2TB of storage, ideally with USB 3.2 Gen 2 for adequate speed while editing, is needed for this class.

DUE DATES FOR ASSIGNMENTS & ATTENDANCE

Due dates are noted on each assignment in Canvas. Late assignments turned in over a week late will be lowered 50% of the possible points. Acceptable reasons for submitting late assignments or absence from class without penalty include illness; Title IX-related situations; serious accidents or emergencies affecting the student, their roommates, or their family; special curricular requirements (e.g., judging trips, field trips, pro-fessional conferences); military obligation; severe weather conditions that prevent class partici-pation; religious holidays; participation in official university activities (e.g., music performances, athletic competition, debate); and court-imposed legal obligations (e.g., jury duty or subpoena). Other reasons (e.g., a job interview or club activity) may be deemed acceptable if approved by the instructor. Students are allowed one absence per semester. Each additional absence will result in a .5-point deduction from a student's final grade for each occurrence.

STUDENT LEARNING OUTCOMES

Students will develop comprehension in the following:

- Understand core camera operations and exposure tools
- Analyze and apply white balance and color temperature
- Use lenses and focal lengths for visual storytelling
- Record high-quality audio with professional microphones
- Explore frame rates, codecs, and visual language
- Demonstrate cinematic techniques through original footage
- Understand camera care and proper set etiquette for working with equipment



UNIVERSITY POLICIES & CAMPUS RESOURCES

STUDENTS WITH DISABILITIES: Students with disabilities who experience learning barriers and would like to request academic accommodations should connect with the Disability Resource Center. See the “Get Started With the DRC” webpage on the Disability Resource Center site. It is important for students to share their accommodation letter with their instructor and discuss their access needs, as early as possible in the semester.

ATTENDANCE: Requirements for class attendance and make-up exams, assignments, and other work in the course are consistent with university policies. See UF Academic Regulations and Policies for more information regarding the University Attendance Policies.

FEEDBACK: Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online. Students can complete evaluations in three ways:

1. The email they receive from GatorEvals
2. Their Canvas course menu under GatorEvals
3. The central portal at <https://my-ufl.bluera.com>

Guidance on how to provide constructive feedback is available at <https://gatorevals.aa.ufl.edu/students/>. Students will be notified when the evaluation period opens. Summaries of course evaluation results are available to students at <https://gatorevals.aa.ufl.edu/public-results/>.

UF HONOR CODE:

UF students are bound by The Honor Pledge which states “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: “On my honor, I have neither given nor received unauthorized aid in doing this assignment.” The Conduct Code specifies a number of behaviors that are in violation of this code and the possible sanctions. See the UF Conduct Code website for more information. If you have any questions or concerns, please consult with the instructor or TAs in this class.

ACADEMIC & HEALTH RESOURCES:

ACADEMIC POLICY & RESOURCES: <https://go.ufl.edu/syllabuspolices>

UF WHOLE GATOR RESOURCES: <https://one.uf.edu/whole-gator/discover>

E-LEARNING TECH SUPPORT

Contact the UF Computing Help Desk at 352-392-4357 or at helpdesk@ufl.edu

LIBRARY SUPPORT Various ways to receive assistance with respect to using the libraries or finding resources. Call 866-281-6309 or email ask@ufl.libanswers.com

CAREER CONNECTIONS CENTER: Reitz Union Suite 1300, 352-392-1601. Career assistance and counseling services.

TEACHING CENTER: 1317 Turlington Hall, Call 352-392-2010, or to make a private appointment: 352- 392-6420. Email contact: teaching-center@ufl.edu. General study skills and tutoring.

WRITING STUDIO: Daytime (9:30am-3:30pm): 2215 Turlington Hall, 352-846-1138 | Evening (5:00pm-7:00pm): 1545 W University Avenue (Library West, Rm. 339). Help brainstorming, formatting, and writing papers.



UNIVERSITY POLICIES & INFORMATION

STUDENT COMPLAINTS ON-CAMPUS: Office of the Ombuds; Visit the Complaint Portal webpage for more information.

UF STUDENT SUCCESS INITIATIVE: Visit <https://studentsuccess.ufl.edu/> for resources that support your success as a UF student.

CLASS RECORDINGS: Students are allowed to record video or audio of class lectures. However, the purposes for which these recordings may be used are strictly controlled. The only allowable purposes are (1) for personal education use,

(2) in connection with a complaint to the university, or (3) as evidence in, or in preparation for, a criminal or civil proceeding. All other purposes are prohibited. Specifically, students may not publish recorded lectures without the written consent of the instructor. A “class lecture” is an educational presentation intended to inform or teach enrolled students about a particular subject, including any instructor-led discussions that form part of the presentation, and deliver by an instructor hired or appointed by the University, or by a guest instructor, as part of a University of Florida course.

A class lecture does not include lab sessions, student presentations, clinical presentation such as patient history, academic exercises involving solely student participation, assessments (quizzes, tests, exams), field trips, private conversations between students in the class or between a student and the faculty or guest lecturer during a class session.

Publication without permission of the instructor is prohibited. To “publish” means to share, transmit, circulate, distribute, or provide access to a recording, regardless, of format or medium, to another person (or persons), including but not limited to another student within the same class section. Additionally, a recording, or transcript of a recording, is considered published if it is posted on or uploaded to, in whole or in part, any media platform, including but not limited to social media, book, magazine, newspaper, leaflet, or third-party note/tutoring services. A student who publishes a recording without written consent may be subject to a civil cause of action instituted by a person injured by the publication and/or discipline under UF Regulation 4.040 Student Honor Code and Student Conduct Code.

ASSIGNMENTS, EXAMS, & GRADING

Assignments & Discussions50 PTS
Quizzes & Exam50 PTS

fractional totals will be rounded up

GRADING SCALE

94pts or higher	= A
90-93pts	= A-
88-89pts	= B+
84-87pts	= B
80-83pts	= B-
78-79pts	= C+
74-77pts	= C
70-73pts	= C-
65-69pts	= D
64pts or below	= E



MODULES

Canvas has detailed reading, lectures, links to resources, and sample work. Carefully consider all of the resources on Canvas.

MODULE 1) WEFATI; BMPCC PRO camera set up and intro; Media management

MODULE 2) Controlling Exposure: ISO, ND Filters, Dynamic Range, Aperture, Shutter

MODULE 3) Color Temperature: White Balance, Kelvin Scale, Manual Settings

MODULE 4) Lenses: Mounting, Etiquette, Focal Lengths, Depth of Field

MODULE 5) Data: Codec, Bitrate, Frame Rate Manipulation, Color Space

MODULE 6) Audio: Settings, Recording, Levels, Microphones and Power



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	MODULES	OUTSIDE OF CLASS
Jan 15	Online Camera Intro: BMPCC Pro 6k; Set up, WEFATI; Media Management	Assignment 1: Shoot & Edit; See Canvas Discussion 1: Strengths & Weaknesses BMPCC Pro
Jan 22	Exposure: ISO, ND, Shutter, Aperture, False Color; Quiz 1 In Class	Assignment 2: Shoot & Edit; See Canvas Discussion 2: Camera Angles PDF; See Canvas
Jan 29	Color Temperature: Kelvin, Settings, White Balance; Quiz 2 Class	Assignment 3: Shoot & Edit; See Canvas Discussion 3: White Balance PDF; See Canvas
Feb 05	Lenses: Focal Length, Depth of Field, Care & Etiquette; Quiz 3 Class	Assignment 4: Shoot & Edit; See Canvas Discussion 4: Focal Length PDF; See Canvas
Feb 12	Data: CODEC, Frame Rates, Color Space; Quiz 4 Class	Assignment 5: Shoot & Edit; See Canvas No Discussion
Feb 19	Audio: Levels & Settings, Wireless Mics, Premiere; Quiz 5 Class	Assignment 6: Shoot & Edit; See Canvas
Feb 26	Exam: Part 1: Hands-on; Part 2: Online	