



蘇州大學
Soochow University

ART 195 Technology of Photography II

Summer 2024

Course Credits: 4

Contact Hours: 56 hours

Instructor: TBA

Email:TBA

COURSE OBJECTIVES

Technology of Photography II is an advanced course that builds upon the foundational knowledge acquired in the prerequisite course. It offers a deeper exploration of the intricacies of photography technology, focusing on advanced principles, techniques, and tools used in both analog and digital photography. Topics include advanced color perception, specialized color systems like Munsell and CIELAB, advanced color theory, advanced color management strategies, and advanced digital post-processing techniques. Students will gain an advanced understanding of photography technology and its sophisticated applications in various contexts. By the end of this course, students should possess a comprehensive skill set to pursue professional endeavors or advanced studies in photography.

Upon Completion of this Course, students will be able to:

1. Delve deeper into advanced principles and theories of color perception and color management in photography;
2. Explore specialized color systems such as the Munsell and CIELAB systems in detail;
3. Analyze and apply advanced color theory concepts in photography practice;
4. Develop advanced skills in color management strategies for optimizing color accuracy in photography;
5. Master advanced digital post-processing techniques for precise color balancing and tone reproduction;
6. Refine digital workflow processes for efficient and effective photography production.



PREREQUISITES

ART 194 Technology of Photography I

GRADING

Grades will be determined by accumulating points, with 100 points being the maximum, as follows:

ITEM	POINTS
4 Hands-on Projects	40 Points
Portfolio Development	10 Points
Midterm Exam	25 Points
Final Exam	25 Points
Total	100 Points

Late submissions will be graded at the end of the course. Grades will be assigned according to the following rule:

$A \geq 90 > B \geq 80 > C \geq 70 > D \geq 60 > F$.

We reserve the right to make adjustments to the overall grading policy.

COURSE MATERIALS

Required Texts:

1. James Gurney, *Color and Light: A Guide for the Realist Painter*, 2010, Andrews McMeel;
2. Bruce Fraser, Chris Murphy, Fred Bunting, *Real World Color Management*, 2003, Peachpit Press.

Recommended (Optional) Texts or Other Materials:

None

COURSE TOPICS

MODULE	TASKS
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Module 1	<p>Topics: Topic 1: Introduction to Photography Technology Topic 2: Basics of Color Perception Topic 3: Color Spaces: RGB, CMYK, and LAB Topic 4: Understanding the Munsell Color System</p> <p>Assessments: Hands-on Project #1: Color Perception Experimentation: Exploring Visual Illusions</p>
Module 2	<p>Topics: Topic 5: Exploring the CIELAB System Topic 6: Principles of Color Theory in Photography Topic 7: Color Management in Photography Topic 8: Digital Color Balance Techniques</p> <p>Assessments: Hands-on Project #2: CIELAB Color Matching Challenge: Achieving Color Consistency</p>
Module 3	<p>Topics: Topic 9: Advanced Color Correction Methods Topic 10: Tone Mapping and Reproduction Topic 11: High Dynamic Range (HDR) Imaging Topic 12: Digital Workflow in Photography</p> <p>Assessments: Midterm Exam</p>
Module 4	<p>Topics: Topic 13: RAW Image Processing Topic 14: Image Compression and Formats Topic 15: Color Depth and Bit Depth Topic 16: White Balance Adjustment</p> <p>Assessments: Hands-on Project #3: White Balance Calibration Exercise: Perfecting Color Temperature Control</p>
Module 5	<p>Topics: Topic 17: Color Grading Techniques Topic 18: Noise Reduction in Digital Photography Topic 19: Sharpening and Detail Enhancement Topic 20: Digital Retouching and Restoration</p> <p>Assessments: Hands-on Project #4: Image Restoration Project: Bringing Old Photos Back to Life</p>



Module 6	<p>Topics: Topic 21: Printing Considerations for Color Accuracy Topic 22: Monitor Calibration and Profiling Topic 23: Understanding ICC Profiles Topic 24: Integration of Color Management Tools in Software</p> <p>Assessments: Portfolio Development Final Exam</p>
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ATTENDANCE

1) Class attendance is required. Missing classes without permission will lead to decrease in overall grade.

Missing less than two classes: no penalty.

Missing more than two classes: 7% will be taken off from the overall grade.

If the instructor reports a student's frequent missing of class to the Soochow University Academic Administration Office, the student might get a written warning and might be prohibited from attending final exam.

2) Participants in this course are expected to arrive in class promptly and adequately prepared. The primary objective of this course is to critically engage with the readings and the subject matter. Therefore, course participants are expected to have completed the reading prior to class and prepare thoughtful reflections/commentaries to share with fellow colleagues.

LEARNING REQUIREMENTS

- 1) Late assignments are not acceptable and are subjected to grade deductions.
- 2) Assignments submitted in the wrong format will be counted as not submitted.
- 3) Failure to submit or fulfill any required course component results in failure of the class.
- 4) Make-up for midterm and final exams only with valid excuses, as defined by the University.
- 5) In order to earn a Certificate of Completion, participants must thoughtfully complete all assignments by stated deadlines and earn an average quiz score of 50% or greater.



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TECHNOLOGY POLICY

The use of electronic devices in class is distracting, both for the user and for the rest of the class. Only non-programmable calculators can be used in the tests and exam. Any attempts to use cell phones and other electronic communication devices will be seemed as cheating. Laptops are discouraged, unless you use them for activities DIRECTLY related to the course (eg., note taking, reading course documents).

ACADEMIC INTEGRITY POLICY

Soochow University highly values the academic integrity and aims to promote the academic fairness, honesty and responsibility. Any academic dishonesty behaviors and any attempts to cheats and plagiarism will be reported to the university administration office. A written warning and the relevant penalties will be imposed. The record might be shown on the official university transcript.

DISABILITY ACCOMMODATION

Soochow University is committed to maintaining a barrier-free environment so that students with disabilities can fully access programs, courses, services, and activities at Soochow University. Students with disabilities who require accommodations for access to and/or participation in this course are welcome.

Note:

Please contact the University Administrative Office immediately if you have a learning disability, a medical issue, or any other type of problem that prevents professors from seeing you have learned the course material.