

San José State University
College of Social Sciences
Department of Environmental Studies
ENVS 166 Nature and Conservation Photography, Section #80, Fall 2022 (Hybrid)

kleegary@comcast.net You can reach me day, night, and weekends and get
a "same day" response, often within a couple of hours. Please do not ET /Artifacts
students (with their advisor and Graduate Coordinator
satisfy the "Application Science" component of their MS

Faculty 166 Canvas Page at MYSJSU Messaging

Students are responsible for regularly checking to MYSJSU Messaging, and Dr. Klee's 166 files on Canvas. Please do not leave messages on Canvas or Google Mail.

Course Description

CATALOG DESCRIPTION: Still photography of nature and illustrative conservation subjects in both color and black and white. Theory critique sessions supplemented with field experience. Prerequisites: Photo experience or instructor consent. 4 units. May be repeated for a total of 8 units

As photographers, we can all use our photography to inform our fellow citizens about what's worth protecting. It's up to us ensure that this world continues to offer beauty and sound ecological conditions for our children's future.

Rob Sheppard, Past Editor
Outdoor Photographer

Upon successful completion of this course, students will be able:

- To better understand the history of photography and its role in conservation.
- To be familiar with the variety of traditional and digital camera formats, lenses, etc.
- To be familiar with the variety of useful digital programs (e.g., Photoshop, Lightroom, SilverEfx Pro) to enhance their images.
- To use their DSLR or Mirrorless camera in ways that they never thought possible.
- To see nature in ways never imagined before.
- To professionally critique photographs (their own as well as others).

Required Texts/Reading/Supplies

Northrup, Tony & Chelsea Northrup. 2019. Stunning Digital Photography (20 hours of Video Version). **IMPORTANT: You must order the Kindle book version from Amazon. Download it to your laptop, not your mobile phone.**

Wolfe, Art, Martha Hill, and Tim Grey. 2013. The New Art of Photographing Nature New York: Amphoto Books. **IMPORTANT: You must order the Kindle book version from Amazon. Download it to your laptop, not your mobile phone.**

Davis, Harold. 2019. 2nd Edition. Creative Black & White Digital Photography Tips & Techniques. San Rafael, California: Rocky Nook Inc. **IMPORTANT: You must order the Kindle book version from Amazon. Download it to your laptop, not your mobile phone.**

Anwenk Grey Card White Balance Card 18% Exposure. Three 3x2 inch (black, white, grey) come in package for approximately \$7.89. Brand: Anwenk. Buy from Amazon. When you go to the Amazon page, you will see several different sizes and types of photographic cards. **IMPORTANT: Make sure you are buying the same one I have so that we are on the same page.**

166 Files on Canvas. **IMPORTANT: Download all Canvas files to both your laptop and mobile phone. Why? You never know when SJSU Canvas is “down,” or Wi-Fi is interrupted, or the electricity fails, or your laptop “crashes,” etc. Be prepared with a Plan B and Plan C.**

Warning: A major -1.15,8 --2 (t)1-8.9 (o(f)6.9 r y42.3 (oar)9.5 (s92.5 (e4--2 ,8)Tjni)6.9 ((ar)9.5 gar)9.5 ad(e4--

Other Readings/Equipment

EQUIPMENT: Each student must provide their own equipment. Students may use either digital or film cameras. Most students use digital cameras, and you should prefer you use a digital camera if you have a choice. Only certain film formats are acceptable. 35mm, 2 1/4 x 2 1/4, and 4 x 5 film formats. Formats smaller than 35mm, such as 16mm, 110, etc. are not acceptable. Some students may want to purchase some additional equipment. A lecture early in the semester will discuss equipment and the merits and limitations of certain specialized equipment. Certain kinds of equipment, such as macro lenses, telephoto lenses, zoom lenses, etc., can usually be rented for short periods of time, such as weekends. Renting additional equipment is an option, not a requirement. Camera phones and non-adjustable cameras (i.e., "Point-and-shoot" digital or film cameras) may not be used. Film and/or digital cameras may be used, but only if you can manually control f stops, shutter speeds, ISO #s, and focusing. You are also required to have a tripod and cable or remote shutter release if you don't have the proper kind of camera, or can't afford to buy one, don't forget that family members (e.g., moms, dads, aunts, uncles, grandmothers, grandfathers, brothers, sisters) often have exactly what you need, and are more than willing to loan that camera that is gathering dust in the closet. Lots of former 166 students have gotten their equipment this way.

Course Requirements and Assignments

ACTIVITY: Students are required to put in an average of 4 hours per week of field work (whether it is with the instructor or by yourself in your own backyard). Six scheduled days are scheduled with the instructor in the field. If the virus is still inhibiting travel, this activity together will likely have to be cancelled. The Field Trip Assignments remain the same, but the Field Locations will be up to you (if, and only if the virus is still restraining in-person activity). Regardless, students are always required to do dawn and dusk photography, which means photographing approximately 1-2 hours after dawn, and 1 hour before dusk. It is at these period that you will get the best light to photograph.

TRAVEL: You need to provide your own mode of transportation that is Covid19 safe (e.g., a car or bike, not public transportation). Carpooling with classmates is also not encouraged this semester. If you don't have your own car, or access to a car, you might think twice about taking this course. Remember, this is a field course, you must be travelling somewhere nature related, even if it is short distance (e.g., a neighborhood park).

Final Examination or Evaluation

During the regularly scheduled final examination period, there is a "Wrap-Up Session" and Unofficial Student Evaluation of the instructor and his T.A. Details TBA.

Grading Information

| | |
|---|--------|
| Field Projects | = 80% |
| Seminar Performance (classroom or remote) | = 20% |
| | 100% - |

Note

STATEMENTS REGARDING CHEATING & PLAGIARISM: It is the student's responsibility to be familiar with SJSU policies on cheating & plagiarism. See SJSU Home>CS 100W: Technical Writing>SJSU Policies:requisites. You must also be familiar with the ENV 100W Instructor's Handbook on Plagiarism and Academic Integrity.

One example of cheating 1.1.3.: "Submitting work simultaneously presented in two courses, unless this has been approved by both course instructors or by the department policies of both departments."

One example of plagiarism 1.2.1.: "The act of incorporating the ideas, words, sentences, paragraphs, or parts of, and/or the specific substance of another's work, without giving appropriate credit, and/or representing the product as one's own work."

THERE ARE MANY OTHER EXAMPLES. STUDY THE ABOVE DOCUMENTS, OR BE CAUGHT IN ONE OF THE GREATEST SINS YOU CAN COMMIT IN ACADEMIA, AND WATCH YOUR GRADE AND MORE IMPORTANTLY, YOUR REPUTATION GO DOWN IN FLAMES. If you have questions, always ask prior to submitting any written document to the instructor.

| Date | Activity | Assignment Due |
|--------------|---|----------------|
| Wed. 8/31 | <p data-bbox="316 325 1079 357">[General Q&A regarding last session's information]</p> <p data-bbox="316 388 1079 420">--Verify Who Has Turned in "Biography Sheet"</p> <p data-bbox="316 451 1079 483">--Now, on your own <u>during this period</u> if possible. . .</p> <p data-bbox="365 525 1079 651">Watch <u>YouTube</u> video: "<u>Ansel Adams: Photography with Intention.</u>" https://www.youtube.com/watch?v=7zancgfDVg 6:05 minutes</p> <p data-bbox="365 724 1079 850">Watch You Tube video: "<u>How Ansel Adams Changed Photography.</u>" https://www.youtube.com/watch?v=Xw5_qb71bXs 9:45minutes.</p> <p data-bbox="365 892 1079 945">Watch Northrup <u>book</u> video: <u>Landscape Tips (11:29)</u> at sdp.it.5 ((de)-1re V BoT (i)37 (o)89 (s)2.7 (:)11.2 (//w)9.6 (w)9f5)n.7 (:)1nsL7-1rg ((de)-1re Vn(s)-</p> | |

| Date | Activity | Assignment Due |
|--------------|---|----------------|
| Wed. 9/14 | [General Q&A regarding last session's information] PART II: EQUIPMENT AND EXPOSURE A. Basic Theory of Exposure & Digital Manipulation | |

| Date | Activity | Assignment Due |
|--------------|---|----------------|
| Wed. 9/21 | <p data-bbox="313 289 1092 359">Part II Basic Theory of Exposure and Digital Manipulation (Con't)</p> <p data-bbox="313 390 1092 422">B. The Zone System</p> <p data-bbox="464 443 1092 573">(Explain <i>Files</i>: The Zone System, the Middle Gray Standard; The Zone System: Facial and Snow Values/Tones; The Zone System: Print Values and Tones; Elements of Exposure, p. 8</p> <p data-bbox="464 594 1092 688">Explain <i>File</i>: Assignment "A": Exposure Compensation & Manual Mode DUE 9/29 (Next Wednesday)</p> <p data-bbox="415 730 1092 800">Watch Northrup <u>book</u> video: <u>Histograms (3:0)</u> at <u>sdp.io/Histograms</u> Location: 1269</p> <p data-bbox="415 842 1092 1230">Watch Northrup <u>YouTube</u> video: "<u>Exposure Compensation and Spot Metering Fixing . . .</u>" <u>https://video.search.yahoo.com/yhs/search?fr=yhs-avg-securebrowser&hsimp=yhs-securebrowser&hspart=avg&p=Exposure+Compensation+and+Spot+Metering+Fixing#id=1&vid=c9bf727507f9b6ff13ba6768fdb1fa6a&action=click</u> (6:52). Illustrates exposure compensation for light (snow) or very dark situations. Excellent introduction; relate to Assignment "A" above & the grey/black/white cards you bought.</p> <p data-bbox="415 1272 1092 1451">Watch Northrup <u>YouTube</u> video: "<u>Dynamic Range & Stops—YouTube</u>" <u>https://www.youtube.com/watch?v=MfwqcmM6FQ</u> (5:02) Illustrates The Zone System</p> <p data-bbox="415 1482 1092 1577">Watch Northrup <u>book</u> video: <u>HDR (3:00)</u> at <u>sdp.io/HDR</u> Location: 3293. Illustrates need for using tripod and manual shooting.</p> <p data-bbox="415 1619 1092 1751">Watch Northrup <u>book</u> video: <u>Using HDR for Overcast Skies (2:51)</u> at <u>sdp.io/HDR/OvercastSky</u> Location: 3293. Excellent discussion of how to solve this very common problem you will have.</p> | |

[Gary: Have available Spot Meter and gray cards, view Photomatix HDR software

| Date | Activity | Assignment Due |
|------|----------|----------------|
|------|----------|----------------|

Wed.
9/28

[General Q&A regarding last session]

PART III DEPTH OF FIELD, HYPERFOCAL SCALE,
DIFFRACTION, AND EXPANDING DEPTH OF
FIELD IN PHOTOSHOP .

Review and discuss the following *Files*

- Diffraction vs. Depth of Field
- Tools for Determining Depth of Field
- Depth of Field and Focal Length
- Depth of Field Chart for Fuji X-T2 with 16mm Lens
- Extended Depth of Field in CS4 (Illustrates Focus Stacking)

Now watch related videos on your own:

Watch YouTube video: "[Capture Hyperfocal Distance and the Landsc-4 1atvie](#)"

Date

| Date | Activity | Assignment Due |
|---------------|---|-------------------|
| Sun. 10/16 | FIELD TRIP #1: DAWN LOCATION: <u>Carmel River State Beach</u> Depth, Hype | ASSIGNMENT: Rec., |

| Date | <u>Activity</u> | Assignment Due |
|--------------|---|----------------|
| Wed. 11/2 | <u>Q&A</u> : Field Trip #3 (Elkhorn Slough) Photographic Challenges <u>Instructor</u> : Explain Field Trip #4, Capitola Field Trip Objective: | |

| Date | Activity | Assignment Due |
|---------------|---|----------------|
| Wed. 11/16 | <p data-bbox="412 359 1143 394">Q&A field Trip #5 (Pescadero) Photographic Challenges</p> <p data-bbox="402 426 954 462"><u>Instructor:</u> Explain Field Trip 6, Point Lobos</p> <p data-bbox="402 493 1057 529"><u>Field Trip Objective:</u> Capturing The Sense of Place</p> <p data-bbox="402 560 1109 627"><u>Related Files:</u> <u>Field Trip</u>Point Lobos State Reserve;<u>Field Assignment#6</u>, Sense of Place</p> <p data-bbox="402 659 456 693">Wat</p> | |

| Date | Activity | Assignment Due |
|---------------|--|---|
| Wed. 11/30 | <p>PART V: COURSE WRAP-UP</p> <p>--Final Image Presentations (F.T. #6 Point Lobos)</p> <p>--How and When to Receive Your 166 Term Grade</p> <p>--How to Display Your Photography in WSQ 115</p> <p>--How to Repeat 166 for Book and Picture</p> <p>--Concluding Thoughts</p> <p>--For a silly (but also serious) short concluding video:</p> <p>Watch Northrup <u>book</u> video: <u>Stuff that Annoys Wildlife Photographers (48)</u> at sdp.io/Annoy</p> <p>Location: 4374</p> | <p>F.T. #6 (Point Lobos) DUE</p> <p><u>Review these Files:</u> Displaying Your Photography in WSQ 115; Form for Ordering WSQ 115 Prints; Repeating 166 for Book and Picture (Remote)</p> <p><u>Books:</u></p> <p>Wolfe: "Resources" section at end of book.</p> <p>Davis: Location: 266 End</p> |

FINAL S WEEK. Date/Time/Room TBA

COMPARED TO OTHER ENVIS HYBRID CLASSES THAT YOU HAVE HAD, I HOPE YOU FOUND THIS WAS ONE OF THE MOST..