

Biological Illustration 3100-001/002, 2 units

T 2-4:50a R 2-3:50a

Instructor: Stephanie Disch

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Office: N253, Office Hour: R 4-5p

Semester: Fall 2019

Course Description. Techniques of illustrating to include rough drafts and pencil drawings, ink renderings, graphs, maps, lettering, etc., with emphasis placed on biological materials. No Pre-Requisites.

Textbook. No text required. Suggested reading:

1. The Handbook of Scientific Illustration. 2003. Edited by Elaine R. S Hodges, with Steve Buchanan, John Cody and Trudy Nicholson. John Wiley & Sons, Inc. New Jersey, USA.
2. Scientific Illustration. 1994. Phyllis Wood. John Wiley & Sons, Inc. New Jersey, USA.

Student Learning Outcomes. Upon successful completion of the course, students should be able to:

- A. Create Illustrations using contour line, stippling, hatching and cross-hatching.
- B. Develop a working knowledge of tools/mediums of the trade such as graphite, pen and ink.
- C. Ability to draw and scan illustrations to a digital format for publication.
- D. Understand the illustration process, including research, layout, initial sketch and finished drawing; with emphasis on effective scientific communication.
- E. Follow the history of scientific illustration into the modern profession it is today.

Attendance. Attendance is mandatory, and counts as 40% of your grade. As most instruction will be given at the start of class, punctuality is a must. Three absences will be allotted for unforeseen circumstances and will not affect student grade. Two late occurrences will result in one absence. Habitual tardiness may result in early dismissal from the course. Attendance records can be reviewed on the Moodle course website. A geotracking attendance app will be used called Arkaive. Password: 4myClass! Enrollment Code: RDPW This app will only be used for roll call; attendance can then be viewed in Moodle.

Participation. Various assignments will be given throughout the semester. To receive a passing grade all assignments must be completed. Ample time is provided in class for this, and it is expected that class time be used for working on the assignments, not answering texts, watching T.V, studying for other classes, and/or excessive chit chat. If such is observed, you may be asked to continue your extracurricular activities elsewhere. This will result in a half credit deduction for the day. Should you finish an assignment early, you may begin working on the next assignment, or another drawing.

Assignments. Assignments will be given every week, ranging from sketches to finished drawings in a variety of techniques and materials. Assignments will make up 60% of the final grade. Due dates will be given in class. Assignments may include: bones, cells, plants, insects, shells, mammals, birds, life-cycles, commissions/community outreach etc. Assignments will be evaluated by the following criteria:

Effective Communication. Does the drawing successfully convey information conducive to scientific understanding (identification, natural process, function...)

Accuracy of Subject. Are proportions, colors and details of the subject accurate?

Effort/Improvement. How much time and research are put into the development process of a drawing and the finished drawing itself? Is their noticeable improvement in technique, composition or process?

Effective use of Technique/Presentation. Is the artwork clean and professionally presented? Are techniques effective in conveying subject? Are the techniques properly applied?

Course Outline

Course material subject to change at the discretion of instructor. This weekly outline is designed to give students an indication of what to expect but is in no way a binding document. It is impossible to know how each class of students will progress and /or any tailoring that may be needed.

Week 1.

Discuss syllabus and supplies.

Week 2.

History of Scientific Illustration. Drawing bootcamp: Learn to simplify for success.

Week 3.

Working with graphite. Hatching, cross-hatching and blending techniques demonstration. Assignment: Geometric shapes.

Week 4.

Field sketching: Leaves. Final drawing: Dimensional leaf in graphite. Demonstrate effective techniques for creating dimension.

Week 5.

Introduction to the quill pen. Demonstrate drawing techniques. Series of exercises, including lettering. Handout: Pressure sensitivity and the quill pen. Assignment: Practice making fluid lines while drawing. (example: feathers) Graphite to ink.

Week 6.

Research: Written and observed. Assignment: Line drawing. (example: Microscope slide) Discussion: Including written information with an illustration.

Week 7.

Shading techniques in pen: Hatching, cross-hatching, stippling, ink wash... Assignment: Shading with the pen. (example: shells, bones, fossils, plants, reptiles, mammals...) Size matters: Reproduction and sizing of the original illustration.

Week 8.

Continue assignment. Color theory and watercolor pencils demonstration.

Week 9.

Successful layering of color and creating dimension. Assignment: Cross-section in color.

Week 10.

Field Sketching: Ecosystems. Video: Drawing trees.

Week 11.

Assignment: Research and prepare full color illustration. (example: birds, insects, fish, microscope...)

Week 12.

Introduction to scratchboard. Tools and techniques demonstration. Assignment: Scratchboard. (example: Mammal)

Week 13.

Begin final project. (example: life-cycle, field guide...) Research, plan and sketch.

Week 14.

Final drawings to be scanned and arranged using the computer. Discussion of arrangement, lettering, inclusion of grids and graphs. How to properly scan and size illustrations for printing/production.

Week 15.

Finish final illustration and present.

Grading. Standard letter grading will be used. Feedback on individual assignments will facilitate improvement. The final grade will be based on the following weighted categories: Attendance: 50% Assignments: 50%. The cumulative average of these two categories will be used to calculate the final grade. An online interface will be used primarily for grading, and can be accessed at any time by students. All students must log in to the CSU Stanislaus Moodle and create an account for this class. The class ID will be announced in class. Below is the grading scale that will be used:

Grading Scale (%)	
94-100	A
90-93	A-
87-89	B+
84-86	B
80-83	B-
77-79	C+
74-76	C
70-73	C-
67-69	D+
64-66	D
60-63	D-

0 - 59
70-100
0-69

F
Credit
No Credit

Academic Integrity. See Student Code of Conduct in Catalog.

Disability Resource Services. By university commitment and by law, students with disabilities are entitled to participate in academic activities and to be tested in a manner that accurately assesses their knowledge and skills. They also may qualify for particular accommodations that ensure equal access to lectures, labs, films, and other class-related activities. Contact Disability Resource Services at Ext. 3159 or information about making accommodations.

Supply List. You will need the following items to complete the course:

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|---|-----------------|
| 1. Strathmore 400 Series Mixed Media Pad 9x12 | 9731098 |
| 2. Sketch book, spiral bound (for field sketching) | 9731022 |
| 3. Drawing Pencils, 1ea: 2H, HB, 2B, 6B | 9722894 |
| 4. Erasers, 1ea. White Plastic, Kneaded | 9729866 9701028 |
| 5. Ruler (clear preferable) | TB23369 |
| 6. Blending Tortillons | 9701043 |
| 7. Hunt Crow Quill pen holder with assorted nibs (hunt 102 nib) | 9727800 |
| 8. Higgins Black Magic Ink | 9730337 |
| 9. Sakura Pigma Micron pen 01 (.25mm) | 9716819 |
| 10. X-Acto knife | 4100418 |
| 11. Black Scratchboard 11x14 or 8x10 | 9711798 |
| 12. Set of 12 (or more) Watercolor Pencils | 9736842 |
| 13. Aqua Flo Brush | 9733210 |
| 14. Lint Free cleaning cloth (for pen nib) | |
| 15. Small cup for water | |

You will find most of these items at the campus bookstore. You may visit enasco.com and search the item numbers on the side. Michaels arts and crafts store and Hobby Lobby will also carry these supplies. You can expect to pay around \$40+ dollars for the above supplies. **Be sure to bring your student ID for discounts; save your receipt!**