

## **Biological Illustration 3100-001/002**

T 8-11:50a/R 8-8:50a

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Semester: Spring 2016

**Course Description.** Techniques of illustrating to include rough drafts and pencil drawings, ink renderings, graphs, maps, lettering, etc., with emphasis placed on biological materials.

**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. Understanding of the illustration process including research, layout, initial sketch and finished drawing; emphasis on effective scientific communication.
- E. Follow the history of scientific illustration into the modern profession it is today.

**Attendance.** Attendance is mandatory. 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. Any additional absence will deduct student grade by one letter (4 absences = B; 5 absences = C etc.).

**Assignments.** Assignments will be given every week, ranging from sketches to finished drawings in a variety of techniques and materials. Due dates will be given in class. Assignments may include: bones, plants, insects, shells, mammals, birds 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?

**Grading.** Grading will be on a credit/no credit basis. To receive credit, a student must complete all the assignments and meet the attendance requirements as stated in the syllabus. Feedback on individual assignments will facilitate improvement.

**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:

1. Strathmore Bristol <i>Smooth</i> Drawing paper 9x12 pad		9705133
2. Sketch book, spiral bound (for field sketching)		9731022
3. Drawing Pencils, 1ea: 2H, HB, 2B		
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		9727800
8. Higgins Black Magic Ink		9730337
9. Sakura Pigma Micron pen .005 (smallest nib)		9716818
10. X-Acto knife (or dissecting pin)		4100418
11. Clear cover report folder		
12. Set of 12 (or more) Watercolor Pencils		9730353
13. Aqua Flo Brush		9733210
14. Lint Free cleaning cloth (for pen nib)		

You will find most if not all of these items at the campus bookstore. You may also go to Nasco and give them the item numbers to the side and they will obtain your supplies for you. Michaels arts and crafts store 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; Nasco may offer up to 20% student discount on supplies. Nasco is located at 4825 Stoddard Road in Modesto, behind Boomers miniature golf.