Scientific Illustration (3 cr. hrs.) E
BIOL811 section 01

Instructor: Rick Simonson
Office: Bruner Hall of Science 334
Phone: 308-865-8943
Email: SIMONSONRL@UNK.EDU

Office hrs: MWF 9:00-10:00 am or by appointment

All face-to-face meetings require a mask to be worn at all times.

University Policies Related to COVID-19: The university community is deeply concerned for the well-being of its students, faculty, and staff. Keeping each other as safe as possible will require commitment from each of us; failure to do so will literally place lives in danger. The full policy relating to mitigation of the spread of infectious diseases can be found at https://www.unk.edu/coronavirus/. Policies that apply to all courses (online, remote, blended, or face-to-face) include:

- Students shall monitor their health daily. No student shall attend classes in person while sick. Those who have had contact with positive-tested individuals or show COVID-19 related symptoms must have clearance from the Public Health Center prior to returning to face-to-face classes. There will be no penalties for missing classes for COVID-19 related absences. Students will still be responsible for course content through alternative attendance or other options arranged with the instructor.

Additional policies specific to face-to-face instruction include the following:

1. During Phases I and II, all students are required to wear masks that cover the nose and mouth at all times during class and at any time, inside or outside, where physical distancing of at least 6’ is not possible. Instructors shall maintain 16’ of distance from students while lecturing but may be closer, if masked. Instructors have the authority to direct students who refuse to wear masks to leave the classroom. Students who have medical issues that make masks inadvisable should contact Disability Services for Students at 308-865-8214 to request an exemption.
2. Students shall not arrive for class more than 5 minutes before the scheduled start time for the course. Instructors shall dismiss students promptly at the end time and all shall leave the classroom promptly. Students who have questions should use office hours rather than before/after class times.
3. Instructors and students should clean their desks prior to class. Cleaning materials will be provided.

Questions regarding COVID-19 should be directed to the Public Health Center unkhealth@unk.edu or 308-865-8254. Questions regarding the COVID-19 academic policy should be directed to Sr. Vice Chancellor Bicak at bicakc@unk.edu. Questions regarding department specific requirements should be directed to the chair of the Biology department – Dr. Julie Shaffer, BHS 335, 308-865-8661, shafferjj@unk.edu

The above directions must be followed by everyone for the health and safety of our University. Students who do not comply may face disciplinary action from the university. Violations of any University or Campus Policy is a violation of the Student Code of Conduct.

There have been some questions about what happens if a student is diagnosed with COVID-19, and how that will impact the rest of the class section. Generally, students who are sitting six feet or more from the sick student and wearing masks should be able to continue in-person attendance. The contact tracers will reach out to them to ask some questions and talk about monitoring protocols. Please understand that any information shared with you about a student’s health must be held in strict confidence.

What happens if we go remote?
If we go remote all course material will be available on Canvas.
An introduction to the discipline of scientific illustration. Students will learn the fundamental principles of creating effective illustrations for the purpose of communicating science. A limited set of media types will be explored. The main focus will be on creating the best images for use in research, teaching, journal publications, presentations, and other applications. Copyright and other legal issues will also be discussed. Prerequisites: basic knowledge of biological concepts; artistic ability not required.

Course Objectives
The student outcome objectives for this course are to 1.) become familiar with the discipline of scientific illustration, 2.) learn how images are used to effectively communicate science, and 3) acquire skills for creating images for education or research purposes.

One of the primary purposes of this course is to become familiar with the discipline of scientific illustration. Scientific illustration is an enormous field of study spanning all of the various disciplines of science (biology, chemistry, physics, earth science, astronomy, etc.) as well as most of the diverse media types used by modern artists (graphite, ink, colored pencil, watercolor, acrylic, digital, etc.). It is, of course, virtually impossible to cover all aspects of this vast discipline in the duration of a one semester course. We will focus our attention on the basic principles that apply to all scientific illustrations, the qualities that make an image effective, copyright laws and other legal issues, and the production of science illustrations. Throughout this course, we will be using three primary media types: continuous tone (graphite pencil), black and white (technical pen), and color (colored pencils). Limiting our number of media types will allow us to explore them in greater detail and to acquire a degree of proficiency in each technique. Even though scientific illustration covers the entire gamut of science, we will focus our attention on the field of biology. The format of this course will probably seem very different compared to other science courses you have taken. There will be little emphasis on exams, papers, written assignments, and other traditional forms of assessment. This course is very project oriented. The majority of points awarded will be for the original illustration projects you create.

Plagiarism/Copyright Infringement
Plagiarism/copyright infringement is the act of taking someone else's work and attempting to pass it off as your own. Plagiarism and copyright infringement will not be tolerated. If you plagiarize or copy someone's photo or illustration you will receive a 0 for that assignment.

Required Materials
Graphite media:
- Drawing pencils – medium (HB), hard (6H or 4H), soft (4B or 6B)
- Eraser
- Drawing paper 9”x 12” (pad or single sheets)

Ink media:
- Technical pens – any brand (Zig, FaberCastell, Staedtler, Rapidograph, etc.) with fine points of various sizes (0.2 – 0.65 mm) (PITT artist pens, Micron, and Copic are very good!)
- Bristol board 9”x 12” pad or single sheets (Strathmore smooth 300 series, etc.)

Colored pencil media:
- Colored pencils (Prismacolor, Derwent, Faber-Castell, etc.)
- Drawing paper 9”x 12” (pad or single sheets)

Optional Materials
Sketchpad
Mechanical Pencil
Books:
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<td>TOTAL</td>
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Students with Disabilities
It is the policy of the University of Nebraska at Kearney to provide flexible and individualized reasonable accommodation to students with documented disabilities. To receive accommodation services for a disability, students must be registered with the UNK Disabilities Services for Students (DSS) office, 175 Memorial Student Affairs Building, 308-865-8214 or by email unkdso@unk.edu

UNK Statement of Diversity & Inclusion:
UNK stands in solidarity and unity with our students of color, our Latinx and international students, our LGBTQIA+ students and students from other marginalized groups in opposition to racism and prejudice in any form, wherever it may exist. It is the job of institutions of higher education, indeed their duty, to provide a haven for the safe and meaningful exchange of ideas and to support peaceful disagreement and discussion. In our classes, we strive to maintain a positive learning environment based upon open communication and mutual respect. UNK does not discriminate on the basis of race, color, national origin, age, religion, sex, gender, sexual orientation, disability or political affiliation. Respect for the diversity of our backgrounds and varied life experiences is essential to learning from our similarities as well as our differences. The following link provides resources and other information regarding D&I: https://www.unk.edu/about/equity-access-diversity.php

Students Who are Pregnant
It is the policy of the University of Nebraska at Kearney to provide flexible and individualized reasonable accommodation to students who are pregnant. To receive accommodation services due to pregnancy, students must contact Cindy Ference in Student Health, 308-865-8219. The following link provides information for students and faculty regarding pregnancy rights. http://www.nwlc.org/resource/pregnant-and-parenting-students-rights-faqs-college-and-graduate-students

Reporting Student Sexual Harassment, Sexual Violence or Sexual Assault
Reporting allegations of rape, domestic violence, dating violence, sexual assault, sexual harassment, and stalking enables the University to promptly provide support to the impacted student(s), and to take appropriate action to prevent a recurrence of such sexual misconduct and protect the campus community. Confidentiality will be respected to the greatest degree possible. Any student who believes she or he may be the victim of sexual misconduct is encouraged to report to one or more of the following resources:
Local Domestic Violence, Sexual Assault Advocacy Agency 308-237-2599
Campus Police (or Security) 308-865-8911
Title IX Coordinator 308-865-8655
Retaliation against the student making the report, whether by students or University employees, will not be tolerated.

If you have questions regarding the information in this email please contact Mary Chinnock Petroski, Chief Compliance Officer (petroskimj@unk.edu or phone 8400).
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<td><strong>Introduction</strong>&lt;br&gt;Welcome, Syllabus, Schedule, Materials</td>
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<td><strong>Lectures on Scientific Illustration</strong>&lt;br&gt;History, Media, Profession, Copyright, Reference Material&lt;br&gt;<strong>How to Illustrate</strong>&lt;br&gt;Sketching, Transferring, Perspective, Tools, Shape, Form, Details&lt;br&gt;<strong>Technical Aspects</strong>&lt;br&gt;Type, Labels, Leader lines, Call-outs</td>
<td>Sketch 1 (due 2/7)&lt;br&gt;Skoetch 2 (due 2/7)&lt;br&gt;Discussion 1 (due 2/7)&lt;br&gt;Skoetch 3 (due 2/7)&lt;br&gt;Exam (due 2/7)</td>
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<td><strong>Graphite</strong>&lt;br&gt;Tools&lt;br&gt;Continuous Tone&lt;br&gt;Shape, Form, Details&lt;br&gt;Graphite Assignment&lt;br&gt;Graphite Illustration</td>
<td>Discussion 2 (due 2/14)&lt;br&gt;Graphite Assignment (due 2/14)&lt;br&gt;Graphite Illustration draft (due 2/21)&lt;br&gt;Graphite Illustration (due 2/28)</td>
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<td><strong>Ink</strong>&lt;br&gt;Tools&lt;br&gt;Black-and-white&lt;br&gt;Shape, Form, Details&lt;br&gt;Ink Assignment&lt;br&gt;Ink Illustration</td>
<td>Discussion 3 (due 3/7)&lt;br&gt;Ink Assignment (due 3/7)&lt;br&gt;Ink Illustration draft (due 3/14)&lt;br&gt;Ink Illustration (due 3/21)</td>
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<td><strong>Colored Pencil</strong>&lt;br&gt;Tools&lt;br&gt;Color&lt;br&gt;Shape, Form, Details&lt;br&gt;Colored Pencil Assignment&lt;br&gt;Colored Pencil Illustration</td>
<td>Discussion 4 (due 3/28)&lt;br&gt;Colored Pencil Assignment (due 3/28)&lt;br&gt;Colored Pencil Illustration draft (due 4/4)&lt;br&gt;Colored Pencil Illustration (due 4/11)</td>
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