Scientific Illustration

at Arcadia University

Global Perspectives…Personal Attention…Real-World Integrative Learning Experiences

Advisers

Professor
Scott Rawlins

Associate Professor
Dr. Lauren Howard

Degree

Bachelor of Arts in Scientific Illustration

About the B.A. in Scientific Illustration

The Scientific Illustration program combines study in Biology and Studio Art. Two emphases exist: Scientific Illustration and Pre-Medical Illustration. The former prepares students for a number of possible careers in biological illustration, graphic design or laboratory research. The latter prepares students for graduate study in medical illustration.

Prospective students must present evidence of capability in science and a portfolio demonstrating skill in representational drawing.

Requirements for the Bachelor of Arts in Scientific Illustration

(84–96 credits as listed below, with Undergraduate Curriculum requirements and electives to total 128 credits)

Adjustments in the requirements for the major in Scientific Illustration can be made with the approval of the program adviser. A maximum of 96 credits in art and science can be counted toward the degree. Additional coursework is required for a degree in Scientific Illustration with an emphasis in pre-medical illustration.*

1. Sixteen courses in Art and Design and Art History

AD	102	Studio Art Foundations I
AD	103	Studio Art Foundations II
AD	104	Drawing I
AD	105	Drawing II
AD	200	Painting I
AD	206	Introduction to Graphic Design
AD	226	Illustration I
or AD	228	Children's Book Illustration
AD	250	Graphic Design I (Typography)
AD	270	Digital Imaging
AD	300	Advanced Drawing
AD	304	Figure Drawing
AD	387	Internship**
AD	383	Senior Studio
AD	484	Senior Thesis Research Seminar

One 100-level course in Art History.
One 200-level course in Art History.
One additional 200-level Studio course.

2. Three courses in Scientific Illustration

SI	201	Scientific Illustration I
SI	302	Scientific Illustration II
SI	490	Senior Thesis

3. Six courses in Science

BI	101	General Biology I
BI	102	General Biology II
BI	211	Comparative Anatomy and Physiology
BI	222	Plant Biology
BI	317	Developmental Biology or BI321 Human Genetics and Development
CH	101	Modern Chemical Concepts I

4. Recommended

AD	201	Color and Design
AD	208	Photography I
AD	251	Graphic Design II (Web Design)
AD	271	Digital Imaging II
BI	329	Ecology
BI	330	Conservation Biology

**Two- or four-credit internships consisting of supervised training in illustration, design, computer imaging, systematics and/or collections management may be set up at a studio or research institution in the Philadelphia area. Past internship sites include the Academy of Natural Sciences, Jefferson Hospital and the Philadelphia Zoo.

Coursework Required for an Emphasis in Premedical Illustration

1. One Art and Design course

AD	208	Photography I

2. Four science courses

BI	205	Human Anatomy
BI	206	Human Physiology
BI	325	Cell Biology or
BI	317	Developmental Biology or
BI	321	Human Genetics and Development or
BI	327	Histology

Scientific Illustration Courses (SI)

301
Science Illustration I
(4 credits; Fall, Spring)

A survey of the various techniques and media that function to visually interpret scientific principles. Both traditional and digital applications are presented, though the former is stressed. The preparation of black and white illustrations suitable for publication is emphasized. In addition, representative scientific taxa are studied via laboratory exercises designed to supplement students' knowledge of systematics and scientific terminology. Six studio hours weekly and independent work.
Prerequisites: AD 103, 104, 105, BI 101, 102, and concurrently scheduled advanced courses; or permission of the instructor.

302
Science Illustration II
(4 credits; Fall, Spring)

A continuation of Scientific Illustration I. Techniques and media using color are introduced. Emphasis is placed on problem-solving and preparation of a portfolio. Six studio hours weekly and independent work.
Prerequisites: AD 103, 104, 105, BI 101, 102, SI 301 and concurrently scheduled advanced courses.

490
Senior Thesis
(4 credits; Spring)

Preparation for criticism and exhibition of a major project in scientific illustration under the supervision of a faculty critic. Includes individual and group conferences pertaining to advanced aspects of the field of concentration. Requires a written thesis. Required of all Scientific Illustration seniors.