Scientific Illustration

at Arcadia University

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

Advisers

Professor
Scott Rawlins

Associate Professor
Dr. Lauren Howard

Degree

Bachelor of Arts in Scientific Illustration

Related Graduate Study at Arcadia

Master of Arts in Humanities with Concentrations in Fine Arts, Theater and Music
Master of Education in Art Education

About the B.A. in Scientific Illustration

- Preparation for professional careers in biological illustration
- Preparation for graduate study in medical illustration
- Nationally recognized Art Gallery and experimental and white cube student galleries
- Internships at studios, research institutions, hospitals and zoos
- Opportunities to study at some of the top universities around the world

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

(93–99 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. Seventeen courses in Art and Design and Art History

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

One 100-level course in Art History.
One 200-level course in Art History.
One Additional 200 or 300-level Studio course.

2. Three courses in Scientific Illustration

SI	301	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	General Chemistry I

4. Recommended

FA	201	Color and Design
FA	208	Photography I
FA	251	Graphic Design II (Interactive Design)
FA	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 additional Art and Design course

FA	208	Photography I

2. Three science courses, in addition to BI101, BI102 and CH101

BI	205	Human Anatomy
	Or BI 211	Comparative Anatomy and Physiology
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: FA 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: FA 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.