BIOLOGICAL/PRE-MEDICAL ILLUSTRATION

The interdepartmental undergraduate BPM I major is designed for students who want to combine their interests and aptitudes in science and art. Based on the theme of "communicating science through art," the major prepares students for careers in biological illustration or for graduate education in medical illustration elsewhere. Graduates enter fields such as biocommunications, environmental display design, freelance illustration, museum display design, and various careers in the publishing industry.

Entrance into the BPM I program is by application to the BPM I Advisory Committee. Eligibility is based on an academic standard of at least 2.00 CGPA on 30 credits of university level work and a consideration of artistic ability as demonstrated through submission of a portfolio of representative drawings or other art work. Freshman and transfer students usually declare pre-BPM I as their major while satisfying the conditions for entrance into the major, although other majors can be declared.

To earn the B.A. degree offered by the College of Liberal Arts and Sciences, students must complete the general education requirements in that college and take at least 41 credits in design and 32 credits in the biological sciences.

| Design courses | | 29 | |
|---|--|----|--|
| DSN S 131 | Design Representation | | |
| ARTIS 230 | Drawing II | | |
| ARTIS 233 | Watercolor Painting | | |
| ARTIS 308 | Computer Modeling, Rendering and Virtual Photography | | |
| ARTIS 330 | Drawing III: Life Drawing | | |
| BPM I 323 | Scientific Illustration Principles and Techniques | | |
| BPM I 326 | Illustration and Illustration Software | | |
| BPM I 327 | Illustration as Communication | | |
| BPM I 337 | Application of Scientific Illustration Techniques | | |
| BPM I 497 | Illustration Internship | | |
| 12 credits chosen from a list of approved upper level courses in art and design | | | |
| Biological Science | e courses | 24 | |
| LAS 101 | Orientation for Open Option and Preprofessional Students | | |
| BIOL 211 | Principles of Biology I | | |
| BIOL 211L | Principles of Biology Laboratory I | | |
| BIOL 212 | Principles of Biology II | | |
| BIOL 212L | Principles of Biology Laboratory II | | |
| BIOL 255 | Fundamentals of Human Anatomy | | |
| BIOL 256 | Fundamentals of Human Physiology | | |
| BIOL 351 | Comparative Chordate Anatomy | | |
| One of the following | | | |
| BIOL 356 | Dendrology | | |
| BIOL 366 | Plant Systematics | | |
| BIOL 454 | Plant Anatomy | | |
| 9 credits chosen from a list of approved biological science courses | | | |

Chemistry and Mathematics are also required as supporting courses. Students must earn a grade of C- or better in all art and science courses included in the major and must earn a cumulative GPA of 2.00 in both categories. A brochure is available in 102 Catt Hall that gives a detailed listing of the requirements.

Communication Proficiency Requirement. Students must earn a minimum of C in both ENGL 150 and ENGL 250 or equivalent composition courses and in one advanced writing course numbered ENGL 302 through ENGL 316.

Students in BPM I must complete a senior project or an internship experience (BPM I 497) in which they design and produce artwork that is suitable for publication or public display.

A minor in biological illustration is offered. A minimum of 17 credits must be taken, including 8 credits in biological science courses and 9 credits in art and design courses.

The biological sciences must include:

| BIOL 211 | Principles of Biology I | 3 |
|-----------|-------------------------------------|---|
| BIOL 211L | Principles of Biology Laboratory I | 1 |
| BIOL 212 | Principles of Biology II | 3 |
| BIOL 212L | Principles of Biology Laboratory II | 1 |

The art and design courses must include:

| BPM I 323 | Scientific Illustration Principles and Techniques | 3 | |
|---|---|---|--|
| BPM I 337 | Application of Scientific Illustration Techniques | 3 | |
| Advanced drawing, illustration, electronic media or painting course | | | |

For more information, contact the BPM I adviser in 102 Catt Hall or view the website listed above.

Biological/Pre-Medical Illustration, B.A. 120 minimum credits required.

Freshman

| Fall | Credits Spring | Credits | |
|-----------|--|---------|--|
| LAS 101 | 1 LIB 160 | 1 | |
| ENGL 150 | 3 Humanities | 3 | |
| CHEM 163 | 4 BIOL 212 | 3 | |
| CHEM 163L | 1 BIOL 212L | 1 | |
| BIOL 211 | 3 ARTIS 230 | 3 | |
| BIOL 211L | 1 Soc Sci Choice | 3 | |
| DSN S 131 | 4 CHEM 231.231L or STAT or MATH | 3-4 | |
| | 17 | 17-18 | |

| Sophomore | | | | Senior | | |
|--------------------------------|-------------------------------|-------------------------------|---------|--|--|---|
| Fall | Credits Spring | Credits Summer | Credits | Fall | Credits Spring | Credits |
| Foreign Lang. or | 3-4 For Lang or Social Sci | 3-4 Consider study | | Advanced Biology | 3-5 Advanced Biology | 3-4 |
| Humanities (ART 280) | | abroad or attending | | Advanced Art | 3-6 Advanced Art | 3-6 |
| | | summer GNSI Workshops | | Humanities/ Social Elective | 3 Humanities/ Social Sci/ Elective | 3-6 |
| | | or a Biological Station | | BPMI 497 | 1 ENGL 302-316 | 3 |
| | | to take | | Electives | 2 | |
| | | advanced | | | 12-17 | 12-19 |
| | | Biology Courses | | Total Credits: | 120-137 | |
| CHEM | 3-4 BPM I 326 | 3 | | Courses prima | rily for undergraduates: | |
| 231/231L or STAT or MATH | | | | (Cross-listed w | ientific Illustration Princ rith ARTIS). (0-6) Cr. 3. R | Repeatable. |
| BPM I 323 | 3 ARTIS 330 | 3 | | | - | credits in biological sciences |
| ENGL 250 | 3 Humanities | 3 | | | and professional technic r. Emphasis on tools, ma | ques in black & white, continuous |
| BIOL 255 | 3 BIOL 256 | 3 | | torie, and color | . Limpilasis off tools, file | ateriais, and rendering. |
| | 15-17 | 15-16 | 0 | | stration and Illustration | |
| Junior | | | | (Cross-listed with ARTIS). (0-6) Cr. 3. Repeatable. | | |
| Fall | Credits Spring | Credits | | Prereq: ARTIS 323 Application of painting, drawing, and image making techniques to | | |
| BPM I 327 | 3 BPM I 337 | 3 | | communication. Development of technical abilities using illustration | | |
| Advanced | 3-4 BIOL 351 | 5 | | software. Digital and print production techniques. | | |
| Biology | | | | DDM I 227: Illii | stration as Communica | tion |
| ARTIS 308 | 3 Soc Sci | 3 | | | | tion |
| Humanities | 3 ARTIS 233 | 3 | | (Cross-listed with ARTIS). (0-6) Cr. 3. Prereg: ARTIS 326 | | |
| or Social Sci | | | | Studio problems in illustration emphasizing composition and communication. Problem solving methodologies. | | |
| Advanced | 3 Humanities | 3 | | | | |
| Biology or Art or plant | and Advanced | | | BPM I 337: Application of Scientific Illustration Techniques (Cross-listed with ARTIS). (0-6) Cr. 3. Repeatable, maximum of 6 credits. | | |
| science | Advanced | | | S. | | |
| Work with | 7.11.0 | | | Prereq: ARTIS 3 | | |
| BPMI | | | | • | | ent types of biological and |
| advisory committee | | | | scientific subjects emphasizing communication. The use of traditional and digital media. Term project required. | | |
| to plan | | | | BPM I 395: Fie | ld Illustration | |
| senior | | | | Cr. 1-3. Repeatable, maximum of 6 credits. S.SS. | | |
| project for | | | | Prereq: Permission of instructor | | |
| portfolio If planning | | | | A combination seminar and field trip course emphasizing nature | | |
| to attend | | | | interpretation, field sketching techniques and preparation of a final illustration based on field experience. | | |
| graduate | | | | illustration bas | sed on held experience. | |
| school, | | | | | operative Education | |
| take GRE | | | | Cr. R. F.S.SS. | -i | anakhan adamakian asassilis akassilis d |
| in Fall and | | | | Prereq: Permission of the program cooperative education coordinator, junior | | |
| prepare up to 20 | | | | classification Required of all cooperative education students. Students must register | | |
| portfolio | | | | for these courses prior to commencing each work period. | | |
| pieces for | | | | | | • |
| submission | | | | | | |
| in January | 15.16 | | | | | |

15-16 17

BPM I 435I: Illustrating Nature I Sketching

(Cross-listed with IA LL). Cr. 2. SS.

Sketching plants, animals and terrain. Visual communication, development of a personal style, and integration of typographic and visual elements on a page will be emphasized.

BPM I 436I: Illustrating Nature II Photography

(Cross-listed with IA LL). Cr. 2. SS.

Beginning to intermediate technical and compositional aspects of color photography of natural areas and their plants and animals.

BPM I 490: Independent Study

Cr. 1-3. Repeatable, maximum of 3 credits.

Prereq: Written approval of instructor and advisory committee chair on required form in advance of semester of enrollment

BPM I 494: Special Topics in Illustration

Cr. 1-3. Repeatable.

Intensive exploration of illustration techniques in a studio or field setting.

BPM I 497: Illustration Internship

Cr. 1-6. Repeatable, maximum of 6 credits.

Prereq: Junior or senior classification in BPM I, written approval of supervising instructor and advisory committee chair on required form in advance of semester of enrollment Offered on a satisfactory-fail basis only.