### General Biology

#### Semester 1 - Fall
- **BIOL 110 (GN) Basic Concepts and Biodiversity** 4
- **CHEM 110 (GN) Chemical Principles I** 3
- **CHEM 111 (GN) Experimental Chemistry I** 1
- **MATH 140 B (GQ) Calculus and Biology I, or MATH 140 (GQ) Calculus with Analytical Geometry I** 4
- **Arts (GA), Humanities (GH), or Social and Behavioral Science (GS)** 3
- **PSU 016 – First-year seminar** 1
- **BIOL 003- Peer Learning in Biology** 1
- **Total Credits:** 17

#### Semester 2 - Spring
- **BIOL 220W (GN) Biology: Populations and Communities, OR BIOL 240W (GN) Biology: Function and Development of Organisms** 4
- **CHEM 112 (GN) Chemical Principles I** 3
- **CHEM 113 (GN) Experimental Chemistry II** 1
- **MATH 141B (GQ) Calculus and Biology II, or MATH 141 (GQ) Calculus with Analytical Geometry II** 4
- **ENGL 15 or 30 (GWS) Composition/Honors Composition** 3
- **BIOL 003- Peer Learning in Biology** 1
- **Total Credits:** 16

#### Semester 3 – Fall
- **BIOL 230 W (GN) Biology: Molecules and Cells** 4
- **CHEM 210 Organic Chemistry I, or CHEM 202 Fundamentals in Organic Chemistry I** 3
- **STAT 200 (GQ) Elementary Statistics, STAT 240 (GQ) Intro to Biometry, or STAT 250 (GQ) Intro to Biostatistics** 3 or 4
- **Arts (GA), Humanities (GH), or Social and Behavioral Science (GS)** 3
- **CAS 100 (GWS) Effective Speech** 3
- **General Health and Physical Activity (GHA)** 1.5
- **Total Credits:** 14-15

#### Semester 4 – Spring
- **BIOL 220W (GN) Biology: Populations and Communities, or BIOL 240W(GN) Biology: Function and Development of Organisms** 4
- **CHEM 212 Organic Chemistry II, or CHEM 203 Fundamentals in Organic Chemistry II** 3
- **PHYS 250 (GN) Introductory Physics I, or PHYS 211 (GN) General Physics: Mechanics** 4
- **CAS 100 (GWS) Effective Speech** 3
- **TOTAL Credits:** 15 or 16

#### Semester 5 – Fall
- **BIOL 4XX** 3
- **CHEM 213B Laboratory in Organic Chemistry- Bioscience, or CHEM 213 Laboratory in Organic Chemistry, or ELECTIVE- Supporting Course** 2 or 3
- **PHYS 251 (GN) Introductory Physics II, or PHYS 212 (GN)** 4
- **Arts (GA), Humanities (GH), or Social and Behavioral Science (GS), and US Cultures (US)** 3
- **ELECTIVE – Supporting Course** 3
- **Total Credits:** 15-16

#### Semester 6 – Spring
- **BIOL 4XX** 3
- **ELECTIVE – Supporting Course** 3
- **PHYS 213 (GN) and 21 (GN)4, or ELECTIVE- Supporting Course** 3 or 4
- **Arts (GA), Humanities (GH), or Social and Behavioral Science (GS), and International Cultures (IL)** 3
- **ELECTIVE- Supporting Course** 3
- **Total Credits:** 15 or 16
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<th>Semester 7 – Fall</th>
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**Bold type** indicates courses requiring a quality grade of C or better.  
**Italics** indicate courses that satisfy both major and General Education requirements.  
**Bold Italics** indicate courses requiring a quality grade of C or better and that satisfy both major and General Education requirements.  
GWS, GHA, GQ, GN, GA, GH, and GS are codes used to identify General Education requirements.  
US, IL, and US;IL are codes used to designate courses that satisfy University United States/International Cultures requirements.  
W is the code used to designate courses that satisfy University Writing Across the Curriculum requirement.  

**Scheduling patterns for courses not taught each semester:**  
- **Fall and Summer only:** BIOL 110*  
- **Fall only:** BIOL 230W  
- **Spring only:** BIOL 220W, BIOL 240W  

**Program Notes:** This is only one way to plan your schedule – please consult with a biology advisor to refine your plan. Be aware that most 400 level Biology courses are taught only in one semester and over time, the semester offering can change.  

*BIOL 110 in the fall is for freshman and sophomores only.  
BIOL 110 in the spring is for juniors and seniors only.