

Advisee Sheet – Biology Majors

Name _____ Expected Graduation Date _____
Mailing Address _____
Email Address _____ Phone _____
Post-Grad. Plans _____
Advanced Standing Credit: Institution _____
Courses or Hours _____

CCAS General Curriculum Requirements

G-PAC includes 24 credits of approved Analytic courses which achieve learning goals in a range of disciplines:

3 credits in mathematics or statistics—quantitative reasoning
6 credits in natural and/or physical laboratory sciences—scientific reasoning
6 credits in social sciences—quantitative, scientific, critical, or creative thinking
6 credits in humanities—critical or creative thinking
3 credits in art (visual, performing, critical, or historical practices)—critical or creative thinking
Of the Analytic courses, students must take two of the following Perspective courses:

One that includes a global or cross-cultural perspective, and

One that includes local/civic engagement

Students must take the following Communication courses to demonstrate both written and oral communication skills:

UW 1020 and two Writing in the Disciplines (WID) courses

UW 1020 must be taken before enrolling in the WID courses, and each WID also needs to be completed before the next; all in separate semesters

One of the two WID courses may double count toward the Analytic and/or Perspective course work

The Oral communication course may count toward the Analytic, Perspective, and major requirements

Biology Program Requirements

Requirements for Minor – 12 hours 2000-3000 level BISC courses excluding research and indep. study

General Requirements for Major (B.S. only):

BISC 1111-1112 (Intro. Biology for Science Majors) or equivalent

CHEM 1111-1112 (General Chemistry)

CHEM 2151-2152 & 2153-2154 (Organic Chemistry & Lab)

PHYS 1011-1012 (General Physics & Lab)

MATH OR STAT 3 credits

Additional 30 credits of 2000-4000 level coursework

General Requirements for Major (B.A. only):

BISC 1111-1112 (Intro. Biology for Science Majors) or equivalent

CHEM 1111-1112 (General Chemistry)

CHEM 2151-2152 & 2153-2154 (Organic Chemistry & Lab)

Additional 24 credits of 2000-4000 level coursework

- Both the BA and BS degree require three upper level courses with laboratories
- Courses in the 1000s are primarily introductory undergraduate courses
- Those in the 2000–4000s are upper-division undergraduate courses that can also be taken for graduate credit with permission and additional work
- Those in the 6000s and 8000s are for master's, doctoral, and professional-level students
- The 6000s are open to advanced undergraduate students with approval of the instructor

		Years	Offered
A. Introductory Courses			
	1005– Biology of Nutrition and Health (3)	All	F, Su
	1006 – Ecology and Evolution of Organisms (3)	All	Sp, Su
	1007 – Food, Nutrition, and Service (3)	All	F
	1111 – Intro Biology: Cells and Molecules (4)	All	F
	1112 – Intro Biology: Cells and Organisms (4)	All	Sp, Su
B. Cellular and Molecular (minimum of 4 credits)			
	2202 – Cell Biology (3)	All	F, Sp
	2207 – Genetics (3)	All	F, Sp
	2208 – Genetics Laboratory (1)	All	Sp
	2213 – Biology of Cancer (3)	All	Sp, Su
	2214 – Developmental Biology (4)	All	Sp
	2220 – Developmental Neurobiology (3)	All	Sp
	2305 – Plant Biology (3)	Odd	Sp
	2320 – Neural Circuits and Behavior (3)	All	F
	2580 – Biotechnology (4)	All	F, S, Su
	2580W – Biotechnology (4)	All	F, S, Su
	2583 – Biology of Proteins (3)	All	F
CHEM	3165 – Biochemistry I (3) ***	All	F
CHEM	3166 – Biochemistry II (3) ***	All	Sp
	3209 – Molecular Biology (4)	All	F
	3210 – Nanobiotechnology (3)	All	Sp
	3211 – Nanobiotechnology Lab (1)	Even	Sp
	3212 – Immunology (3)	All	F
	3261 – Introductory Medical Biochemistry (4)	?	
	3262 – Biochemistry Laboratory (2)	All	Sp
	3263 – Special Topics in Biochemistry (2)	All	Sp
	3263W – Special Topics in Biochemistry (2)	All	Sp
	3458 – Plant Structure and Function (3)	All	Sp
	6218 – Innate Immunity (3)	All	Sp
	6224 – Molecular Evolution (3)	Not all	
	6225 – Molecular Phylogenetics (4)	All	Sp
	6228 – Population Genetics (3)	All	F
	6230 – Human Genetics (3)	Not all	
	6251 – Evolutionary Developmental Biology (3)	All	Sp
	6274 – Gene Regulation and Engineering (3)	All	F
	6275 – Intro to Recombinant DNA Techniq. (3)	Not all	
C. Suborganismal and Organismal (minimum of 4 credits)			
	2318 – Histology (4)	All	Sp
	2330 – Invertebrate Zoology (4)	Odd	F
	2332 – Comparative Vertebrate Anatomy (4)	All	Sp
	2337 – Introductory Microbiology (4)	All	F, Sp
	2337W – Introductory Microbiology (4)	All	F, Sp
	2339 – Parasitology (4)	All	F
	2331 – Insect Biology (3)	Even	F
	2333 – Evolution and Extinction of Dinosaurs (3)	All	Sp, Su
	2334 – Integrative Biology of Fishes (3)	Even	Sp
	2335 – Insect Biology Lab (1)		
	2581 – Human Gross Anatomy (3)	All	Sp
	3122 – Human Physiology (3)	All	Sp
	3123 – Human Physiology Lab (1)	All	Sp
	3320 – Human Neurobiology (3)	All	F

		Years	Offered
D. Ecology and Evolution (minimum of 4 credits)			
	2000 – Sophomore Colloquium (3)	All	F
	2450 – Organic Evolution (3)	All	Sp
	2451 – History of Life (3)	All	Sp
	2452 – Animal Behavior (3)	All	Sp
	2453 – Animal Behavior Laboratory (1)	All	Sp, S
	2454 – General Ecology (4)	All	F
	2467 – Marine Biology (3)	All	Sp
	2584 – Bioinformatics (3)	All	Sp
	3450 – Evolutionary Medicine (3)	Even	F
	3450W – Evolutionary Medicine (3)	Even	F
	3459 – Field Biology (4)	Even	F
	3460 – Conservation Biology (3)	All	Sp
	3463 – Ecological and Evolutionary Genetics (3)	Odd	Sp
	3461 – Plant-Animal Interactions (3)	All	F
	3462 – Plant-Animal Interactions Lab (1)	Even	F
	3464 – Ecology and Evolution of Societies (3)	Odd	S
	6210 – Methods of Study of Evolution (4)	All	F
	6211 – Biogeography/Coevolution (4)	All	
	6213 – Descriptive Systematics: Biodiversity (3)	All	F
	6214 – Phylogenetic Basis of Biology (3)	All	F
	6215 – Vertebrate Phylogeny (4)	Even	Sp
	6216 – Morphological Systematics (4)	Odd	Sp
E. Seminars and Research			
	1000 – Dean’s Seminar (3)	All	F
	2584 – Introduction to Bioinformatics (3)	All	Sp
	4171 – Undergraduate Research (1-12)	All	F, Sp, Su
	4171W – Undergraduate Research (1-12)	All	F, Sp, Su
	4172 – Independent Study (1-3)	All	F, Sp, Su
	4180 – Undergraduate Research Seminar (1)	All	F, S
	6101 – Responsible Research (1)	Even	S
	6102 – Scientific Presentation (1)	Even	F, S
	6205 – Current Topics: Cells (1-2)	All	F, S
	6206 – Current Topics: Evolutionary Ecol. (1-2)	All	F, S
	6207 – Seminar: Current Topics (1-2)	All	F, S
	6218 – Innate Immunity (3)	Not all	S
	6219 – Host-Microbe Interactions (3)	Not all	S
	6227 – Seminar: Genetics (3)	All	S
	6249 – Seminar: Developmental Biology (3)	Odd	S
	6243 – Seminar: Ecology (3)	All	F
	6252 – Seminar: Neurobiology (3)	Odd	S

*** Will not count for credit if registered for MISC 3261 Medical Biochemistry