Pitt State

Name:

ID:

Catalog 2024-25

Biology (Cellular and Molecular), Bachelor of Science

This academic degree map is a term-by-term course schedule designed for you to graduate in four years. The sample schedule below serves as a general guideline to building a full-time schedule for each term. Earning a degree requires that you complete (1) the required General Education courses, (2) the course requirements of your major and (3) any requirements PSU has designated for a Bachelor degree. Courses and special notes are specified to keep you on track to graduate in four years. Where open elective is listed, it means that you may take a course of your choosing, perhaps a course in an area outside of your major, but be sure to discuss this with your advisor.

This map is not a substitute for academic advisement – contact your advisor if you have any questions throughout the term and as you begin planning for the next. The University Catalog is also available as a resource with a complete list of requirements for all degrees offered at PSU.

Recommended 4-years to graduation plan

Code	Semester 1 - FRESHMAN YEAR	Credit	NOTES
BIOL 211	Principles of Biology I (SGE)[040] Suggested	4	
CHEM 215	General Chemistry I	3	
CHEM 216	General Chemistry I Lab	2	
ENGL 101	English Composition (SGE)[010]	3	C or better
UGS 150	Gorilla Gateway (SGE)[070]	2	
	TOTAL CREDIT HOURS	**14**	

Code	Semester 2 - FRESHMAN YEAR	Credit	NOTES
BIOL 212	Principles of Biology II	4	
CHEM 225	General Chemistry II	3	
CHEM 226	General Chemistry II Lab	2	
PSYCH 155	General Psychology (SGE)[050] Suggested	3	
Bucket 030	Math & Statistics (SGE)[030]	3	
	TOTAL CREDIT HOURS	**15**	

	Semester 3 - SOPHOMORE YEAR	Credit	
BIOL 371	General Microbiology	3	
BIOL 372	General Microbiology Lab	2	
CHEM 325	Organic Chemistry I	3	
CHEM 326	Organic Chemistry I Lab	2	
BIOL 330	Ecology	3	
Bucket 050	Social & Behavioral Science (SGE)[050]	3	
	TOTAL CREDIT HOURS	**16**	

	Semester 4 - SOPHOMORE YEAR	Credit	
BIOL 322	Genetics	3	
BIOL 323	Genetics Lab	2	
CHEM 335	Organic Chemistry II	3	
CHEM 336	Organic Chemistry II Lab	2	
COMM 207	Speech Communication (SGE)[020]	3	
Bucket 060	Arts & Humanities (SGE)[060]	3	
	TOTAL CREDIT HOURS	**16**	

	Semester 5 - JUNIOR YEAR	Credit	
BIOL 311	Cell Biology	3	
PHYS 100	College Physics I (or PHYS 101)	4	
PHYS 130	College Physics I Lab	1	
CHEM 575	Biochemistry I (or CHEM 475)	3	
ENGL 299	Intro to Research Writing (SGE)[010]	3	C or better
	TOTAL CREDIT HOURS	**14**	

	Semester 6 - JUNIOR YEAR	Credit	
PHYS 101	College Physics II (or PHYS 104)	4	
PHYS 131	College Physics II Lab	1	
600+	Biology Major	5	
BIOL 602	Biology Topics Course	1-3	
Bucket 060	Arts & Humanities (SGE)[060]	3	
Bucket 070	Institutionally Designated (SGE)[070]	1	
	TOTAL CREDIT HOURS	**15-17**	

	Semester 7 - SENIOR YEAR	Credit	
BIOL 550	Advanced Cellular/Molecular Biology	3	
BIOL 551	Intro to Recombinant DNA Tech Lab	3	
500+	Biology Elective	4	
100+	Minor Course or Open Elective	6	
	TOTAL CREDIT HOURS	**16**	

	Semester 8 - SENIOR YEAR	Credit	
BIOL 699	Senior Seminar	1	
500+	Biology Elective	3	
100+	Minor Course or Open Elective	7	
Bucket 070	Institutionally Designated (SGE)[070]	3	
	TOTAL CREDIT HOURS	**14**	

Writing to Learn: Typically one from general education and one in major coursework.

Systemwide General Education (SGE) Key

010 English
020 Communications
030 Math & Statistics
040 Natural & Physical Sciences
050 Social & Behavioral Sciences
060 Arts & Humanities
070 Institutionally Designated