



**Department of Biology Graduation Checklist**  
<https://biology.sfsu.edu/advising/undergraduate>

			Fa 24	Sp 25	Su 25	v	on DPR?
BIOL 442	Biol 401 + Biol 402GW + Chem 349	Microbial Physiology	no	no	no		
BIOL 443 <sup>‡</sup>	Biol 442 (may be taken concurrently)	Microbial Physiology Laboratory (2)	no	no	no		
BIOL 446	Biol 401 + Biol 402GW + Biol 355	Microbial Genomics (4)	no	yes	no		
BIOL 453	Biol 230 + Biol 240 + Biol 355	General Parasitology	yes	no	no		
BIOL 454 <sup>‡</sup>	Biol 453 (may be taken concurrently)	Parasitology Laboratory (1)	yes	no	no		
BIOL 458	one college-level Biology course	Biometry (4)	yes	yes	no		
BIOL 482 <sup>‡</sup>	Biol 230 + Biol 240	Ecology (4)	yes	yes	no		
BIOL 490	Biol 230 + Biol 240	Ecology of Infectious Diseases (4)	no	yes	no		
BIOL 525	Biol 230 + Biol 240 + Chem 130	Plant Physiology	no	yes	no		
BIOL 526 <sup>‡</sup>	Biol 230 + Biol 240 + Chem 130	Plant Molecular Physiology Laboratory (2)	no	no	no		
BIOL 612	Biol 230 + Biol 240 + Chem 130 + Phys 121	Human Physiology	yes	yes	yes		
BIOL 615	Biol 230 + Biol 240 + Biol 612	Molecular Pathophysiology	no	no	no		
BIOL 619	Biol 212 or Biol 612	Pathophysiology	no	no	no		
BIOL 620	Biol 230 + Biol 240	Endocrinology	no	no	no		
BIOL 621	Biol 230 + Biol 240 + Biol 330 + Chem 130; Biol 492 or a vertebrate anatomy course recommended	Reproductive Physiology	no	no	yes		
BIOL 622	Biol 230 + Biol 240	Hormones and Behavior	no	yes	no		
BIOL 627	Biol 230 + Chem 115 + Phys 121	Biophysics	no	no	no		
BIOL 630	Biol 230 + Biol 240 + [Chem 130 or Chem 233]	Animal Physiology	yes	no	no		
BIOL 638	Biol 230, GPA 3.0 or higher	Bioinformatics & Genome Annotation (4)	yes	no	no		
BIOL 640	Biol 230 + Biol 240 + Chem 130 + Phys 121; Biol 350 and Biol 612 recommended	Cellular Neurosciences	yes	no	no		
BIOL 642	Biol 328 or Biol 612	Neural Systems Physiology	no	yes	no		
BIOL 644	Biol 230 + Biol 240 + [Biol 350 or Biol 355 or Biol 357]	LEADerS Service Learning Course: Learners Engaged in Advocating for Diversity in Science (4)	no	no	no		
<b>OR</b> BIOL 654	Biol 230	Peer Assistants for Learning Science (4)	yes	yes	no		
BIOL 667 <sup>‡</sup>	Math 226; Biol 230 or Chem 215 with a grade of C or better	Optical Engineering for the Biological Sciences	no	yes	no		
BIOL 699	Restricted to senior Biology majors; consent of the department and instructor.	Independent Study in Biology (1-3 units) <i>requires faculty mentor's approval</i>	yes	yes	no		
CSC 306 <sup>‡</sup>	Restricted to Biology, Chemistry, and Biochemistry majors and pre-majors; upper-division standing; or permission of the instructor.	An Interdisciplinary Approach to Computer Programming	yes	yes	no		

<sup>‡</sup>meets upper division laboratory elective requirement

**Upper Division Electives (units)**

*BIOL 699 should generally be considered a lab elective - need to submit an advisor request if appropriate*

Course Num.	Course Title	Units

**What course has student taken to meet GEAR? (typically Biol 351GW)**

GEAR course must be completed with a C- or better to meet graduation requirements

	Required	Completed
<b>Total upper division unit requirements (required and elective)</b>	<b>28</b>	_____
<b>Total units for major (minimum 58 units)</b>	<b>58-61</b>	_____

**Recommendations for targeted post-graduate plans**

**Health profession**  
 Students generally required to take the full year of organic chemistry with lab: Chem 233/234 and Chem 335/336 (check your target program)  
 Students generally required to take Phys 121/122  
 Students should check their target programs to confirm requirements.

**Graduate programs**  
 Students generally required to take the full year of organic chemistry with lab: Chem 233/234 and Chem 335/336 (check your target program)  
 Students generally required to take Phys 121/122  
 Students should complete at least two semesters of calculus and one semester of physical chemistry.  
 Student should consult with major advisor to optimize course plan for goals.