

**Advising Template**  
**BS Biology - Molecular Biology**  
**2024-25 catalog**

All professional schools and graduate schools have their own unique set of prerequisites. Courses should be selected in consultation with your academic advisor/mentor with an annual review of websites from the professional schools for which the students wish to apply, to ensure that the students meet CSC graduation and degree requirements as well as professional school prerequisite requirements. These additional requirements and recommendations may include additional specific biology courses and more chemistry, physics, and psychology courses, as well as others. Course sequences are scheduled, but may change to accommodate faculty loading.

**Year 1**

Fall Semester			Spring Semester		
BIOL 102/102L	General Biology II & Lab (SLO 6)	4	BIOL 101/101L	General Biology I & Lab	4
CHEM 131/131L	College Chem I & Lab (unless has not had high school Chem)	4	CHM 132/132L	College Chemistry II & Lab	4
FYI 169Y (ES 1)	Select one	3	FYI 169Y (ES 1)	Select one	3
MATH (ES 4)	Recommend MATH 232 Applied Stats	3	ENG 135 (ES 2)	Rhetoric & Writing	3
(ES 3)	Select one	3			
<b>Total Hours</b>		<b>17</b>	<b>Total Hours</b>		<b>14</b>

**Year 2**

Fall Semester			Spring Semester		
BIOL 332/332L	Genetics & Lab	4	BIOL 241/241L	Microbiology & Lab	4
CHEM 231/231L OR 333/333L	Survey of Org. Chem & Lab OR Org. Chem I & Lab	4	BIOL/CHEM	*Select one from list	4
(ES 7)	Select one	3	(ES 3)	Select one	3
(ES 11)	Select one	3	(ES 8)	Select one	3
			(ES 10)	Select one	3
<b>Total Hours</b>		<b>14</b>	<b>Total Hours</b>		<b>17</b>

**Year 3**

Fall Semester			Spring Semester		
BIOL 335/335L	Biochemistry & Lab	4	BIOL/CHEM	*Select one from list	3
(ES 5)	Select one	3	Select one:		3
PHYS 151/151L	College Physics & Lab	4	BIOL 428	Bioinformatics (Spring even years)	
elective	Select one	3	CHEM 342/342L	Instrumental Analysis & Lab (Spring odd years)	
			(ES 6)	Select one	3
			elective	Select one	3
			elective	Select one	3
<b>Total Hours</b>		<b>14</b>	<b>Total Hours</b>		<b>15</b>

**Year 4**

Fall Semester			Spring Semester		
BIOL 458	Evolution	3	BIOL 499	Biology Capstone (ES 12)	3
BIOL 449	Molecular Biology of the Cell	3	Select one:		3
elective	Select one	3	BIOL 428	Bioinformatics (Spring even years)	
elective	Select one	3	CHEM 342/342L	Instrumental Analysis & Lab (Spring odd years)	
elective	Select one	3	(ES 9)	Select one	3
			elective	Select one	3
			elective	Select one	3
<b>Total Hours</b>		<b>15</b>	<b>Total Hours</b>		<b>15</b>

\*List Selection (at least 6 credits from the following):

BIOL 323/323L; BIOL 243/243L; BIOL 244/244L; BIOL 390; BIOL 432/432L; BIOL 439/439L; BIOL 447/447L; CHEM 334/334L; CHEM 336; PHYS 152/152L