

## B.S. in Microbiology / M.S. in Molecular Biosciences Sample Program Schedule

- Indicate academic calendar type:  Semester  Quarter  Trimester  Other (describe):
- Label each term in sequence, consistent with the institution's academic calendar (e.g., Fall 1, Spring 1, Fall 2)
- Use the table to show how a typical student may progress through the program; copy/expand the table as needed.

Term: Fall 1				Term: Spring 1			
Course Number & Title	Credits	New	Prerequisite(s)	Course Number & Title	Credits	New	Prerequisite(s)
BIO 101: General Biology I	4	No	None	BIO 102: General Biology II	4	No	BIO101
CHE 101: General Chemistry I	4	No	None	CHE 102: General Chemistry II	4	No	CHE101
HUM 101: Pre-Modern World	3	No	None	HUM 102: Modern World	3	No	HUM101
MAT 121: Calculus I	4	No	None	Elective 1	3	No	None
				COM 115: Principles of Communication	3	No	None
Term credit total:	15			Term credit total:	17		
Term: Fall 2				Term: Spring 2			
Course Number & Title	Credits	New	Prerequisite(s)	Course Number & Title	Credits	New	Prerequisite(s)
CHE 201: Organic Chemistry I	4	No	CHE102	CHE 202: Organic Chemistry II	4	No	CHE201
PHY 212: College Physics I	4	No	MAT121	PHY 222: College Physics II	4	No	PHY212
BIO 210: Microbiology	4	No	BIO102	MAT145 : Elementary Statistics	3	No	MAT121
HUM 201: Contemporary World	3	No	HUM102	BIO240: Virology	3	No	BIO210
CHE253: Scientific Communications	2	No	COM115	Elective 2	3	No	None
Term credit total:	17			Term credit total:	17		
Term: Fall 3				Term: Spring 3			
Course Number & Title	Credits	New	Prerequisite(s)	Course Number & Title	Credits	New	Prerequisite(s)
PSC315: Immunology	3	No	Pre/coreq. BIO210	PSC312: Molecular Biology	3	No	Pre/coreq. PSC311
PSC 311: Biochemistry	3	No	CHE202	BIO340: Microbial Genetics	3	No	BIO210, Pre/coreq: PSC312
BIO370:Microbial Physiology	3	No	BIO210, CHE202	BIO355: Biomedical Lab Techniques II	3	No	BIO350, pre/coreq.: PSC312
BIO350: Biomedical Lab Techniques I	3	No	BIO210, Pre/coreq. PSC315, PSC311	BIO235: Cell Biology	3	No	BIO210
Elective 3	3	No	None	Elective 4	3	No	None
Term credit total:	15			Term credit total:	15		
Term: Fall 4				Term: Spring 4			
Course Number & Title	Credits	New	Prerequisite(s)	Course Number & Title	Credits	New	Prerequisite(s)
BIO480: Microbiology Capstone Experience I	3	No	BIO355	BIO485: Microbiology Capstone Experience II	3	No	BIO480
<b>MAT610G: Statistical Inference and Modeling</b>	3	No	MAT145	<b>BHS655G: Research Design</b>	2	No	BIO670G
Track Elective I ( <b>BIO625G: Advanced Molecular Biology</b> )	3	No	PSC312	Track Elective II ( <b>BIO630G: Advanced Cell Biology</b> )	3	No	BIO235
<b>BIO670G: Research Rotation</b>	2	No		Elective 7	3	No	Varies
Elective 5	3	No	Varies	<b>BIO645G: Bacterial Pathogenesis</b>	3	No	BIO210, PSC315, PSC312
Elective 6	3	No	Varies	BIO660G: Microbiology Journal Club	1	No	BIO485
BIO660G: Microbiology Journal Club	1	No	Coreq: BIO480				
Term credit total:	18			Term credit total:	15		

Term: Fall 5				Term: Spring 5			
Course Number & Title	Credits	New	Prerequisite(s)	Course Number & Title	Credits	New	Prerequisite(s)
PSC671G: Ethics in Research	1	No	None	Graduate Elective IV	3	No	Varies
Graduate Elective II	3	No	Varies	BIO702G: Thesis Research	3	No	BIO670G
Graduate Elective III	3	No	Varies				
BIO660G: Molecular Biosciences Journal Club	1	No	None				
BIO701G: Thesis Research	3	No	BIO670G				
Term credit total:	11			Term credit total:	6		

\*Track Electives available in Fall semester: Anatomy and Physiology I (BIO213), Pathophysiology I (PSC231), Advanced Molecular Biology (BIO625G)

\*Spring Semester Track Electives: Genetics (BIO225), Anatomy and Physiology II (BIO215), Bioethics (ETH310), Pathophysiology II (PSC322), Advanced Cell Biology (BIO630G), Molecular Diagnostics (BHS660G), Advanced Topics in Microbiology (BIO620G)

<b>Program Totals:</b>	<b>Credits: 146</b>	Identify any comprehensive, culminating element(s) (e.g., thesis or examination), including course number if applicable:  <b>Written thesis and thesis defense</b>
	<b>BS: 122</b>	
	<b>MS: 33</b>	
	<b>Double count: 9</b>	

**New** = indicate if new course      **Prerequisite(s)** = list prerequisite(s) for the noted course