

Cell and Molecular Biology

Bachelor of Science | Comprehensive

First Semester			Second Semester		
Course	Title	Hrs.	Course	Title	Hrs.
GEP 101	First Year Foundations	2	BMS 231 ^(b)	Human Genetics (with lab)	4
BMS 110 ^(a)	Intro to Biomedical Sciences (GEC106)	3	CHM 170	General Chemistry II	3
BMS 111	Intro to Biomedical Sciences Lab	1	CHM 171	General Chemistry II Lab	1
CHM 160	General Chemistry I	4	COM 115	Fundamentals of Public Speaking	3
CHM 161	General Chemistry I Lab	1	MTH 287 ^(c)	Computational Calculus (GEC104)	3
ENG 110	Writing I	3	BMS 300	Service Learning in Biomedical Sci	1
		Total Hours			Total Hours
		14			15
Third Semester			Fourth Semester		
BMS 307	Human Anatomy	4	CHM 343	Organic Chemistry II	5
CHM 342	Organic Chemistry I	5	BMS 321	Biomolecular Interactions	4
HST 121 or 122	Survey of the History of the U.S. (GEC 113)	3	PLS 101	American Democracy (GEC 114)	3
GEC 105	Writing II (prefer ENG 221, 310, or 321)	3	BMS 300	Service Learning in Biomedical Sci	1
		Total Hours	GEC 111	Humanities	3
		15			Total Hours
					16
Fifth Semester			Sixth Semester		
BMS 521	Molecular Cell Biology	4	BMS ^(d)	Advisor Approved Major Elective	4
PHY 123 ^(c)	Introduction to Physics I (GEC108)	4	BMS	Advisor Approved Major Elective	2
GEC 110	Social and Behavioral Sciences (prefer PSY 121)	3	PHY 124 ^(c)	Intro to Physics II	4
BMS 308 ^(d)	Human Physiology (major elective)	4	GEC 110	Social and Behavioral Sciences (prefer SOC 150, ECO 165, or ECO 155)	3
		Total Hours	GEC 112	Arts Course	3
		15			Total Hours
					16
Seventh Semester			Eighth Semester		
BMS 525	Molecular Biology	4	BMS	Advisor Approved Major Elective	3
BMS 494 ^(e)	Senior Seminar in CMB	1		General Elective / Minor ^(f)	3
GEC 115	Cultural Competence Course	3		General Elective / Minor	3
GEC 116	Public Issues Course	3		General Elective / Minor	3
BMS	Advisor Approved Major Elective	3		General Elective / Minor (if needed to complete 120 hours)	3
		Total Hours			Total Hours
		14			15

Notes for Success:

- General education courses should NOT be selected from the Social and Behavioral Sciences, Public Issues, Natural World, Physical Sciences, or categories which are already built into this curriculum. Select GENERAL EDUCATION courses from **Humanities (3), Arts (3), HST 121 or 122 (3), PLS 101 (3), and Cultural Competence (3)**.
- Formal admission to this major requires completion of at least 25 hrs. of course work, including BMS 110, 111, 231, and CHM 160/161, and a cumulative and science GPA of 2.5 or higher.
- Students may choose MTH 287 (3) or 261 (5); PHY 123 (4) or 203 (5); and PHY 124 (4) or 204 (5).
- CMB advisor approved electives must total 16 hours for graduation.
- Each CMB major is required to take a comprehensive examination in Cell and Molecular Biology in BMS 494.
- For the comprehensive major a minor is not required. However, students with transfer or Dual Credit on the transcript choose minors such as: Chemistry, Spanish, Psychology, etc.

Tips for Success:

- Consider online Medical Terminology, LLT 102, for first summer session.
- Join the Student Society for Cell & Molecular Biology and appropriate pre-professional organizations.