

Molecular Biotechnology (738)
Ogden College of Science and Engineering
Western Kentucky University

Molecular Biotechnology Major - 4 year plan

Success Markers

FIRST YEAR	Fall Semester		Spring Semester	
<p><i>Visit the Learning Center for free tutoring link to site</i></p> <p><i>Chemistry and Math depends on Placement scores and must be passed with a "C" or better</i></p>	BIOL 120/121 or BIOL 122/123 (Biological Concepts &	4	BIOL 120/121 or BIOL 122/123 (Biological Concepts &	4
	BIOL 212 (Genome Discovery)	2	BIOL 312 (Bioinformatics)	4
	BIOL 388* (Contemporary Issues)	0	BIOL 388* (Contemporary Issues)	0
	MATH 116 or higher	3	CHEM 120/121 (Coll Chem I & Lab)	5
	ENGL 100	3	MATH 117 or higher	3
	Colonnade Foundation	3		
	TOTAL CREDIT HOURS	15	TOTAL CREDIT HOURS	16
	SECOND YEAR			
<p><i>Plan an Internship, Independent Research or a Study Abroad Trip for the Summer (contact Biology faculty about opportunities!)</i></p> <p><i>Ask at Office of Scholar Development about scholarships!</i></p>	Fall Semester		Spring Semester	
	BIOL 226/227 (Microbial Biology)	4	BIOL 319/322 (Intro Cell Mol & lab)	4
	BIOL 327/337 (Genetics & Lab)	4	BIOL 388* (Contemporary Issues)	0
	BIOL 388* (Contemporary Issues)	0	BIOL 399 or 369**	1
	CHEM 222/223 (Collage Chem II & Lab)	5	CHEM 340/341 (Organic Chem I & Lab)	5
	Colonnade Foundation	3	ENGL 200	3
			HIST 101 or 102	3
	TOTAL CREDIT HOURS	16	TOTAL CREDIT HOURS	16
SUMMER TERM				
Summer Term				
TOTAL CREDIT HOURS		0		

Consider conducting research, an internship or study abroad

THIRD YEAR	Fall Semester		Spring Semester	
	<i>Visit Career Services</i> <i>Writing Center offers free help!!!</i> <i>direct link</i>	BIOL 350 (Recomb Genetics)	3	BIOL 382 (Biostatistics)
BIOL 388* (Contemporary Issues)		0	BIOL 388* (Contemporary Issues)	0
BIOL 399 or 369**		1	BIOL 399 or 369**	1
CHEM 342/343 (Organic Chem II & Lab)		5	BIOL 446/447 (Biochem I & Lab)	5
PHYS 231/232 (Biophysics I & Lab)		4	PHYS 322/233 Biophysics II & Lab)	4
COMM 145		3	ENGL 300	3
TOTAL CREDIT HOURS		16	TOTAL CREDIT HOURS	16
FOURTH YEAR	Fall Semester		Spring Semester	
<i>Apply for Graduation (YEA)</i> <i>direct link</i> <i>Celebrate</i>	BIOL 388* (Contemporary Issues)	0	BIOL 388* (Contemporary Issues)	1
	BioTech Elective***	4	BIOL 489 (Professional Aspects)	1
	BioTech Elective***	4	BIOL 411 (Cell Biology)	3
	Colonnade Connections	3	Biotech Elective***	3
	Colonnade Connections	3	AMS 371 or 390 or 430	3
			Colonnade Connections	3
	TOTAL CREDIT HOURS	14	TOTAL CREDIT HOURS	14
Total credit hours required:				120

This is a suggested program of study.

Student must maintain a "C" or better in each Biology course and in some supporting courses.

Course prerequisites are in parentheses and italics after each course listing.

*BIOL 388: Examination of recent advances, ethics and career opportunities in Biotechnology through discussions, seminars and field trips. All majors will take this course together every semester with credit bearing in the last semester. The course meets a few times in a semester.

**BIOL 369 or 399: Students have the opportunity to choose a 369 Cooperative Internship in place of 399 Research in Biology or take both. The internship or research course can also be taken during the summer.

***Elective determined with faculty advisor

For more Information:

Website: <http://www.wku.edu/biology/mbiotech/>

Email: molecular.biotechnology@wku.edu