



SAMPLE CAREER DEGREE MAP
Biology BS: Molecular, Cellular & Dev. Biology
2024-Present | Total Credits Required: 120

Year One - First Semester Academic Program →		
Course Number & Title	Min. Grade	Cr.
ENG 111 ENGLISH COMPOSITION		3
MTH 123 OR MTH 125		4
BIO 170 GENERAL BIOLOGY I	C	3
BIO 171 GENERAL BIOLOGY I LAB		1
CHM 141 GENERAL CHEMISTRY I		3
CHM 121 GENERAL CHEMISTRY I LAB		1
Total Credits:		15

← Year One - First Semester Career Readiness	
Recommended Career Milestones	Done
Log into Handshake Account with Career Services	
Create a Draft Resume or Start Building a Basic Resume	
Join a Biology-Related Student Club	

Year One - Second Semester Academic Program →		
Course Number & Title	Min. Grade	Cr.
ENG 151 INTRO TO COLLEGE WRITING		3
BIO 180 GENERAL BIOLOGY II	C	3
BIO 181 GENERAL BIOLOGY II LAB		1
MTH 231 ANALYTIC GEOMETRY & CALC. I	C	3
MTH 229 CALCULUS COMPUTER LAB		1
CHM 142 GENERAL CHEMISTRY II		3
CHM 127 GENERAL CHEMISTRY II LAB		1
Total Credits:		15

← Year One - Second Semester Career Readiness	
Recommended Career Milestones	Done
Create a LinkedIn Account	
Explore Career Options for Biology Majors	
Attend Career Center for Professional Development Events and Internship Fairs	
Create a Draft Cover Letter	

Year Two - First Semester Academic Program →		
Course Number & Title	Min. Grade	Cr.
INDIVIDUAL & SOCIETY		3
US EXPERIENCE IN ITS DIVERSITY		3
CHM 250 ORGANIC CHEMISTRY I		5
BIO 205 OR 233 OR 235 OR 237 OR 239	C	4
Total Credits:		15

← Year Two - First Semester Career Readiness	
Recommended Career Milestones	Done
Develop a Network of Contacts Through LinkedIn	
Update Your Resume	
Find a Mentor You Can Check in With Periodically	
Start Your Internship Search	
Look for Summer Research Opportunities	

Year Two - Second Semester Academic Program →		
Course Number & Title	Min. Grade	Cr.
WORLD CULTURES & GLOBAL ISSUES		3
CREATIVE EXPRESSION		3
CHM 256 ORGANIC CHEMISTRY II		5
BIO 205 OR 233 OR 235 OR 237 OR 239	C	4
Total Credits:		15

← Year Two - Second Semester Career Readiness	
Recommended Career Milestones	Done
Join the American Institute of Biology Sciences (AIBS)	
Use LinkedIn to Start Marketing Yourself and Building Professional Relationships	
Attend Basic Interview Workshops	
Identify Skills That You Need to Build Outside of the Classroom - take an online course in R, Python, BLAST, or Geneious	

**SAMPLE DEGREE MAP**

Biology BS: Molecular, Cellular & Dev. Biology
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Year Three - First Semester Academic Program →

Course Number & Title	Min. Grade	Cr.
BIO 205 OR 233 OR 235 OR 237 OR 239	C	4
BIO 205 OR 233 OR 235 OR 237 OR 239	C	4
BIO/MLS 325 OR BIO 327		4
(PHY 120 AND 121) OR PHY 116 PHYSICS I		4
Total Credits:		16

← Year Three - First Semester Career Readiness

Recommended Career Milestones	Done
Refine Your Resume	
Continue to Apply for Internships	
Research Graduate School or Other Post-Graduate Opportunities	
Practice Advanced Interview Techniques	

Year Three - Second Semester Academic Program →

Course Number & Title	Min. Grade	Cr.
BIO 205 OR 235 OR 237 OR 239 OR BIO/MLS 325 OR BIO 327	C	4
BIO 272 STATS FOR BIOLOGICAL SCIENCES		4
(PHY 160 AND 161) OR PHY 156 PHYSICS II		4
BIO 200- OR 300- OR 400-LEVEL		4
Total Credits:		16

← Year Three - Second Semester Career Readiness

Recommended Career Milestones	Done
Take Leadership Roles in Clubs and Organizations	
Attend Industry Conferences, Career Center for Professional Development Events and Internship Fairs	
Explore Career Options and Tasks with Virtual Work Experiences	
If applicable, start preparing for the MCAT, GRE, or other relevant exams	

Year Four - First Semester Academic Program →

Course Number & Title	Min. Grade	Cr.
BIO 300- OR 400-LEVEL		4
BIO 200- OR 300- OR 400-LEVEL		4
BIO 424 OR 430 OR 450 OR 458 OR 460		3
ELECTIVE		4
ELECTIVE		1
Total Credits:		16

← Year Four - First Semester Career Readiness

Recommended Career Milestones	Done
Meet with a Career Advisor for Job Search Preparation	
Use LinkedIn to Let Contacts Know You Are Looking for Employment	
If Appropriate, Complete the Process of Applying to Graduate School	

Year Four - Second Semester Academic Program →

Course Number & Title	Min. Grade	Cr.
BIO 300- OR 400-LEVEL		4
SOCIAL SCIENCE OR TALA		4
ELECTIVE		4
Total Credits:		12

← Year Four - Second Semester Career Readiness

Recommended Career Milestones	Done
Actively Apply for Jobs! Record your progress and follow up on your applications.	
Attend Networking Events and Career Fairs	
Final Interview Preparation – Practice Negotiation Skills for Job Offers/Salaries	
Secure Letters of Recommendation	
Participate in Senior Showcase Events	