

James Madison University Advising Guide

BRCC Associate of Science Degree and JMU Advising Guide for a major in Biology. See Biology Notes for information on math placement and secondary licensure.

MTH 263 (Calculus) Start

First Semester (Fall I)

Course #	Course Description	Credits
ENG 111	College Composition I	3
MTH 263	Calculus I	4
SDV 101	Student Development (101 for STEM recommended, SDV 100 accepted)	1
CHM 111	General Chemistry I	4
HIS ____	History Elective (HIS 101, 102, 111, 112, 121 or 122)	3

Second Semester (Spring I)

Course #	Course Description	Credits
ENG 112	College Composition II	3
MTH 245	Statistics I	3
CHM 112	General Chemistry II	4
_____	Social Science Elective (PSY 230 for Biology Secondary Education)	3

Third Semester (Fall II)

Course #	Course Description	Credits
BIO 101	General Biology I	4
PHY 201	College Physics I	4
CST 100 or CST 110	Public Speaking or Introduction to Communication	3
_____	Literature/Humanities/Fine Arts Elective	3
_____	Approved AS Electives – see note (1) below	***

Fourth Semester (Spring II)

Course #	Course Description	Credits
BIO 102	General Biology II	4
PHY 202	College Physics II	4
_____	Literature Elective	3
_____	History or Social Science Elective	3
_____	Approved AS Electives*	***

Total Credits Required for Associate of Science Degree/JMU Biology requirements – 61

*The AS Science degree requires 61 credits total to complete. If you have dual enrollment credit for Precalculus (6 credits of MTH 161/162 or 5 credits of MTH 167) you do not need to complete any electives in these slots – these credits count toward the degree. If you place directly into MTH 263 by the Virginia Placement Test and have no prior Precalculus credit, you will need a minimum of **five** additional credits to bring the total to 61. Any Approved AS Elective (including EDU 200, for students interested in Secondary Biology Education) can be applied to this requirement; if you would like to explore additional electives, work with a BRCC Academic Advisor, who can approve them by the Program Substitution process.