



Grand Rapids Community College

2021/22

Western Michigan University Biology Curriculum Guide

Pre biology requirements:

- The following courses are the prerequisites for biology, biomedical sciences, and biology-secondary education (high school level) majors.
- This major is a good choice for students going into entry-level employment in the field of biology, biology graduate programs, or professional schools such as physician assistant, physical therapy, medical, dental, and veterinary schools.
- A **minimum of 15 credits of biology** must be earned at WMU for the major.
- Only departmental courses in which a grade of “C” or better is obtained may be counted toward a major or minor in Biological Sciences.

WMU courses

GRCC courses

BIOS 1610	BI 151
BIOS 1620	BI 152
BIOS 2020	BI 153 (Not needed for biomed majors)
BIOS 2110	BI 121
BIOS 2500	BI 232
CHEM 1100 1110	CHM 130 & 131
CHEM 1120 1130	CHM 140 & 141
CHEM 3750 3760	CHM 260 & 261
CHEM 3770 3780	CHM 270 & 271
PHYS 1130 1140	PH 125
PHYS 1150 1160	PH 126
MATH 1220 or 2000	MA 133 or 129
STAT 3660	MA 215

General education requirements:

- Please see the [Western Essential Studies \(WES\) transfer guide](#)
- All students graduating from the College of Arts & Sciences must meet the world language proficiency by completing two semesters (6-8 hours) of the same foreign language or American Sign Language or passing WMU’s proficiency by exam. Please

contact the College of Arts & Sciences Undergraduate Advising Office at (269) 387-4366 with questions. Neither the MACRAO Agreement nor the MTA satisfy this requirement.

- If the student's first language is not English, then the student is exempt from this requirement. Determination of eligibility for this exemption is based on whether the student was required to take the TOEFL test for admission and can be verified through the WMU departments of Spanish or World Languages and Literatures.

Important notes:

- The chemistry, physics, and mathematics courses are called "cognate" requirements for biology department majors and may not be waived.
- The physics and chemistry courses have a minimum prerequisite of successful completion of advanced algebra (**MA 107** at GRCC).
- For questions about WES or biology major requirements please contact the WMU College of Arts & Sciences Biology advisor at the email address given below.
- Prior to enrolling in WMU courses, students should consult the biology advisor listed below.

Approved by:

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