



WESTERN MICHIGAN UNIVERSITY

Bay de Noc Community College

Fall 2018

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 also a good choice for students going into graduate programs and professional schools such as physician assistant, physical therapy, and 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

BIOS 1600

BIOS 1610

BIOS 1620

BIOS 2110

BIOS 2500

BIOS 3010

CHEM 1100/1110

CHEM 1120/1130

CHEM 3750/3760

CHEM 3770/3780

PHYS 1130/1140

PHYS 1150/1160

MATH 1220 or 2000

STAT 3660

Bay courses

BIOL 202

BIOL 112

BIOL 110

BIOL 213

BIOL 255

BIOL 271 (not for Biomed majors)

CHEM 110

CHEM 112

CHEM 201

CHEM 202

PHYS 201

PHYS 202

MATH 141

MATH 210

General education requirements:

- Please see the [general education program 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 any questions. Neither the MACRAO Agreement nor the MTA satisfy the world language 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.
- The College of Arts & Sciences also requires a critical thinking course, to be chosen from Proficiency 4c. See the general education transfer guide cited above. MACRAO or the MTA will cover this requirement.

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 high school advanced algebra (MATH 105 at Bay);
- For questions about general education requirements please contact the WMU College of Arts & Sciences advisors at the email address given below;
- Prior to enrolling in WMU courses, students should consult the biology department advisor below.

Approved by:

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