

BIOLOGICAL SCIENCES DEPARTMENT
COLLEGE OF ARTS AND SCIENCES **WESTERN MICHIGAN UNIVERSITY**

BIOLOGY MAJOR – KIRTLAND CC TRANSFER GUIDE

BIOLOGICAL SCIENCES COURSES - A **MINIMUM of 32 credit hours**; all courses **MUST** have the appropriate prerequisites met **BEFORE** enrollment; you MUST have a "C" or better in ALL BIOS classes, both to use as a prerequisite and to count for the major.

<u>Required Core</u>	<u>Approved Substitute</u>	<u>Where taken other than WMU</u>	<u>Credit Hours</u>	<u>Grade Rec'd</u>	<u>Semester Taken or Comments</u>
Introductory Level:					
BIOS 1500			4		
BIOS 1510			4		
BIOS 2500			3		

Intermediate Level: You **MUST** pick **AT LEAST THREE** classes from the following list—**AT LEAST ONE** must be a writing intensive course (designated by the *): BIOS 2020, 2030, 2300, 2600, 3000, 3010*, 3120, 3190*, or 3500*.

BIOS					
BIOS					
BIOS					
BIOS					

Advanced Level: A **MINIMUM of 6 credit hours** at the 4000/5000 level taken from the following (only 3 hr. may be 4980 or 4990; **AND** 3 credits **MUST** come from the pre-approved list of Capstone courses, listed in **bold**): 4270, 4300, 4390, 4400, 4410, 4420, 4430, 4560, **4980, 4990, 5240, 5250, 5260, 5265, 5270, 5340, 5360, 5440, 5445, 5450, 5455, 5460, 5470, 5490, 5530, 5535, 5570, 5590, 5593, 5595, 5600, 5610, 5700, 5740, 5970.**

BIOS					
BIOS					
BIOS					
TOTAL			32 or more		

REQUIRED COGNATES: Students COULD receive a minor in CHEM with 20 CHEM credits...see CHEM Advisor for details.

CHEMISTRY - A minimum of 16 credit hours, including a course in organic chemistry and biochem. with lab.

CHEM 1100 & 1110	CHE 10101 & 10102	Kirtland CC	3, 1		
CHEM 1120 & 1130	CHE 10201 & 10202	Kirtland CC	3, 1		
CHEM 3700 & 3710			3, 1		
CHEM					
CHEM 3550 & 3560			3, 1		
TOTAL					

PHYSICS - Two courses in general physics with laboratories.

PHYS 1130 & 1140	PHY 20101 & 20102	Kirtland CC	4, 1		
PHYS 1150 & 1160	PHY 20201 & 20202	Kirtland CC	4, 1		
TOTAL			10		

MATHEMATICS - A minimum of 8 credit hours starting at calculus level or above and a course in Statistics.

MATH 1220 or 2000	MTH 22002	Kirtland CC	4		
STAT 2600 or 3660	MTH 20600	Kirtland CC	4		
TOTAL			8		

**NOTE: STUDENTS MUST SEE A CURRICULUM ADVISOR
 IN THE ARTS AND SCIENCES ADVISING OFFICE IN 2318 FRIEDMAN HALL
 TO DISCUSS GENERAL EDUCATION REQUIREMENTS;
 YOU MUST ALSO SEE THE BIOLOGICAL SCIENCES UNDERGRADUATE
 ADVISOR IN 3447 WOOD HALL TO SET UP AN OFFICIAL MAJOR SLIP.**