

**MICHIGAN STATE BOARD OF EDUCATION
PERIODIC REVIEW/PROGRAM EVALUATION**

SUMMARY OF COURSE REQUIREMENTS FOR SPECIALTY STUDIES PROGRAM

Institution	University of Detroit Mercy	Date:	4-25-05 Revised 9-22-05
Specialty Studies Program	Biology		
Program Standards	Michigan State Board of Education	Standards Date:	August 2002
Program Contact Person(s)	Gregory M. Grabowski, M.S., Ph.D., Biology, 313-993-1181 Lea Schelke Ed.D., Education, 313-578-9545		

DIRECTIONS: On the matrix below, list the required courses for this specialty studies program. Also, indicate the number of electives and any special considerations that apply. In addition to listing the course title, course number, and course semester hours, please indicate whether the course is required for the secondary major or minor, elementary major or minor, the K-12 major or minor, and/or an endorsement.

Course Title	Course Number	Sem. Hours *	Elementary		Secondary		K-12		Endors.
			Maj.	Min.	Maj.	Min.	Maj.	Min.	
General Biology I	BIO 120	3			3	3			3
General Biology I-lab	BIO 121	2			2	2			2
General Biology II	BIO 122	3			3	3			3
General Biology II-lab	BIO 123	2			2	2			2
Form and Function					10 (lecture w/ lab)	6 (lectures)			6
Comparative Anatomy	BIO 260	3							
Comparative Anatomy-lab	BIO 261	2							
OR									
Physiology	BIO 463	3							
Physiology-lab	BIO 464	2							
AND									
Plant Form & Function	BIO 451	3							
Plant Form & Function-lab	BIO 452	2							
Biological System					8 (lecture w/ lab)	3 (lectures)			3
Evolution	BIO 420	3							
OR									
Genetics	BIO 270	3							
OR									
Human Genetics	BIO375	3							
AND									
Ecology	BIO 448	3							
Ecology-lab	BIO 449	2							

Course Title	Course Number	Sem. Hours *	Elementary		Secondary		K-12		Endors.
			Maj.	Min.	Maj.	Min.	Maj.	Min.	
OR Microbiology	BIO 421	3							
Microbiology-lab	BIO 422	2							
OR	BIO 474	3							
Cell & Molecular	BIO 475	2							
Cell & Molecular-lab									
Biology & Social Issues									
Environmental Science	BIO 103	3				3			3
Biology and Social Issues	BIO 499	3			3				
Biometric	BIO 290	3			3				
Co-requisite, prerequisite and recommended courses:									
General Chemistry I	CHM 107	3			3	3			3
General Chemistry I lab	CHM 110	1			1	1			1
General Chemistry II	CHM 108	3			3	3			3
General Chemistry II lab	CHM 111	2			2	2			2
Organic Chemistry I	CHM 227	3			3	3			3
Organic Chemistry I lab	CHM 228	2			2	2			2
Organic Chemistry II	CHM 229	3			3	3			3
Elementary Functions	MTH 140	3			3				
General Physics I	PHY 130	3			3				
General Physics I lab	PHY 131	1			1				
General Physics II	PHY 132	3			3				
General Physics II lab	PHY 133	1			1				
Total Number of SEMESTER HOURS <u>required</u> for each option offered: * If the institution assigns a different type of credit, please convert to semester hours.					46-62	31-39			31-39

Please provide descriptions for all courses contained on the above listing. Descriptions must provide enough information to show that standards could logically be met in these courses.

** Secondary Biology majors are encouraged to minor in chemistry due to the extent of chemistry requirements. Non-required courses also offered as free electives in Biology listed in “Standards for Preparation of Teachers (DA)”.