

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

**SUMMARY OF COURSE REQUIREMENTS FOR SPECIALTY STUDIES PROGRAM**

Institution: University of Detroit MercyDate: 7/8/05  
Revised 10-5-05Specialty Studies Program: Integrated ScienceProgram Standards: Michigan State Board of EducationStandards Date: Aug. 8, 2002

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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.	E	S
Environmental Science**	BIO 103	3	3	3	3	3			3	3
General Biology I	BIO 120	3	3	3	3	3			3	3
General Biology I Lab	BIO 121	2	2	2	2	2			2	2
General Biology II	BIO 122	3	3	3	3	3			3	3
General Biology II Lab	BIO 123	2	2	2	2	2			2	2
Chemistry in Society	CHM 103	3	3		3					
General Chemistry I	CHM 107	3	3	3	3	3			3	3
General Chemistry II	CHM 108	3	3		3	3				3
General Chemistry I Lab	CHM 110	1	1	1	1	1			1	1
General Chemistry II Lab	CHM 111	2	2		2	2				2
Organic Chemistry I	CHM 227	3			3	3				3
Organic Chemistry Laboratory I	CHM 228	2			2	2				2
Basic Biochemistry I	CHM 470	3			3	3				3
World Regional Geography	GEO 211	3	3	3	3	3			3	3
History of the Universe**	PHY 108	3	3	3	3	3			3	3

Course Title	Course Number	Sem. Hours *	Elementary		Secondary		K-12		Endors.	
			Maj.	Min.	Maj.	Min.	Maj.	Min.	E	S
General Physics I	PHY 130	3	3	3	3	3			3	3
General Physics I Lab	PHY 131	1	1	1	1	1			1	1
General Physics II	PHY 132	3	3	3	3	3			3	3
General Physics II Lab	PHY 133	1	1		1					
<b>Electives</b> Secondary Comprehensive Major candidates choose 6 additional hours above the 100 level in Biology and/or Chemistry					6					
Genetics OR	BIO 270	3								
Evolution OR	BIO 420	3								
Ecology OR	BIO 448	3								
Organic Chemistry II OR	CHM 229	3								
Organic Chemistry Laboratory II OR	CHM 230	2								
Quantitative Analysis	CHM 387	3								
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. 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. **Students working towards a minor must take BIO 103 or PHY 108.			39	30	53	43			39	43