

Marian University 2009 – 2010

School of Mathematics and Natural Science
Biology Department

Student's Name: _____

Date: _____

Major: Biology (BS)

128 Credits Required for Graduation

46-49 Liberal Arts Core Curriculum University Requirements, including *BIO 102 and *CHE 101

<p>FIRST-YEAR STUDIES - 3 credits - All students entering Marian University with fewer than 24 credits are required to successfully complete GEN 101. Transfer students with 24 or more credits do not need to complete GEN 101.</p> <p>Total # of Transfer Credits: _____ <input type="checkbox"/> Gen 101 required <input type="checkbox"/> Gen 101 not required</p>				
Studies of Natural Sciences and Mathematics	CR	Required LACC if appropriate	CR	GR
Mathematics Common Core	3	(MAT 122 recommended)		
Lab Science Common Core	4	*BIO 102		
Elective Core	3	*CHE 101		
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Studies of Humanities and the Arts	CR	Required LACC courses if appropriate		
Philosophy Common Core	3	PHI 132		
Literature Common Core	3	see General Ed. Program requirements		
Art or Music Common Core	3	see General Ed. Program requirements		
Elective Core	3	see General Ed. Program requirements		
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Studies of Social Sciences	CR	Required LACC courses if appropriate		
History Common Core	3	HIS 101 or HIS 102		
Sociology or Psychology Common Core	3	see General Ed. Program requirements		
Elective Core	3	see General Ed. Program requirements		
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Studies of Applied Liberal Arts	CR	Required LACC courses if appropriate		
Expository Writing Common Core	3	ENG 105		
Argumentative & Research Common Core	3	ENG 106		
Elective Core	3	see General Ed. Program requirements		
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Studies of Theology	CR	Required LACC courses if appropriate		
Theology Common Core	3	THE 100 or THE 102		
Elective Core	3	see General Ed. Program requirements		
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Biology Program Specific Requirements	CR			
<p>Biology majors must achieve a 2.50 GPA in all of their Biology coursework before graduation. Transfer students must complete one-half of their major and one-third of their minor credits at Marian University.</p>				
Comments:				
Biology/Middle-Secondary Education students are required to take MAT 122 Intro to Probability and Statistics and MAT 201 Calculus I.				

Biology Major

38 credits as follows:

27 credits:

COURSE ID	COURSE TITLE	CR	PREREQUISITES	COURSE CYCLE			ADVISOR COMMENTS	CR	GR
				SEM I	SEM II	SUM			
BIO 101	Biological Principles I	4		X					
BIO 102	Biological Principles II	4	BIO 101		X				
BIO 231	Botany	4	BIO 100 or BIO 102	O					
BIO 300	Biology Literature and Seminar	2		X	X				
BIO 301	Genetics and Lab	4	BIO 100 or BIO 102, and CHE 202	X					
BIO 302	Cell Biology	3	BIO 100 or BIO 102, and CHE 202		X				
BIO 311	Bacteriology and Lab	4	BIO 100 or BIO 102, CHE 201	X					
BIO 424	Senior Research in Biology	2	BIO 300	X	X	X			

4-8 credits from the following:

Biology/Middle-Secondary Education students are required to take BIO 310 Invertebrate Zoology/Lab and BIO 322 Vertebrate Zoology/Lab.

COURSE ID	COURSE TITLE	CR	PREREQUISITES	COURSE CYCLE			ADVISOR COMMENTS	CR	GR
				SEM I	SEM II	SUM			
BIO 201	Anatomy & Physiology I	4		X		X			
BIO 202	Anatomy & Physiology II	4	BIO 201		X	X			
BIO 310	Invertebrate Zoology and Lab	4	BIO 100 or BIO 102		O				
BIO 312	Developmental Biology and Lab	4	BIO 100 or BIO 102, and CHE 202	O					
BIO 322	Vertebrate Zoology and Lab	4	BIO 100 or BIO 102		E				

3-9 Biology Elective credits:

Biology/Middle-Secondary Education students are required to take either BIO 104 Environmental Science and Lab or preferably BIO 315 Ecology and BIO 365 Ecology Lab.

COURSE ID	COURSE TITLE	CR	PREREQUISITES	COURSE CYCLE			ADVISOR COMMENTS	CR	GR
				SEM I	SEM II	SUM			

Other Requirements:

16 credits:

COURSE ID	COURSE TITLE	CR	PREREQUISITES	COURSE CYCLE			ADVISOR COMMENTS	CR	GR
				SEM I	SEM II	SUM			
CHE 101	Principles of Chemistry I	4		X	X	X			
CHE 102	Principles of Chemistry II	4	CHE 101 or CHE 105		X				
CHE 201	Organic Chemistry I	3	CHE 101	X					
CHE 202	Organic Chemistry II	3	CHE 201		X				
CHE 251	Organic Chemistry I – Lab	1	CHE 201 or concurrent	X					
CHE 252	Organic Chemistry II -Lab	1	CHE 251		X				

32-33 Elective credits:

Biology/Middle-Secondary Education students are required to take PHS 203 University Physics I and PHS 205 University Physics II and PHS 108 Earth Science and Lab.

COURSE ID	COURSE TITLE	CR	PREREQUISITES	COURSE CYCLE			ADVISOR COMMENTS	CR	GR
				SEM I	SEM II	SUM			

X Offered every year
 E Offered in even years (2008-09, 2010-11, etc.)
 O Offered in odd years (2009-10, 2011-12, etc.)
 * Offered at discretion of faculty as needed
 W/S Wintermester/Summer