

Marian University 2009 - 2010

School of Mathematics and Natural Science
Chemistry and Physics Department

Student's Name: _____

Date: _____

Major: Chemistry (BS)

128 Credits Required for Graduation

46-49 Liberal Arts Core Curriculum University Requirements, including *MAT 201, 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	4	*MAT 201		
Lab Science Common Core	4	*CHE 101		
Elective Core	3	see General Ed. Program requirements		
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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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Chemistry Program Specific Requirements	CR			
<p>Chemistry majors must achieve a 2.50 GPA in all of their Chemistry coursework before graduation. Transfer students must complete one-half of their major and one-third of their minor credits at Marian University.</p>				
Comments				

Chemistry Major

34-36 credits as follows:

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 – Lecture	3	CHE 101	X					
CHE 202	Organic Chemistry II - Lecture	3	CHE 201		X				
CHE 251	Organic Chemistry I - Lab	1	CHE 201 or concurrent enrollment	X					
CHE 252	Organic Chemistry II - Lab	1	CHE 251 and CHE 202 or concurrent enrollment		X				
CHE 300	Analytical Chemistry	4	CHE 102	X					
CHE 301	Instrumental Analysis	4	CHE 300		E				
CHE 401	Physical Chemistry I	3	CHE 300 and MAT 202	*					
CHE 402	Physical Chemistry II	3	CHE 401		*				
CHE 412	Chemistry Literature & Seminar	1			X				
CHE 420	Senior Research	1-3		X	X				
CHE 451	Physical Chemistry I - Lab	1	CHE 401 or concurrent enrollment		*				
CHE 452	Physical Chemistry II - Lab	1	CHE 402 or concurrent enrollment		*				

2 Chemistry Elective credits:

(choose from course numbers above 200)

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

Other Requirements:

18 – 20 credits as follows:

10 credits:

COURSE ID	COURSE TITLE	CR	PREREQUISITES	COURSE CYCLE			ADVISOR COMMENTS	CR	GR
				SEM I	SEM II	SUM			
MAT 201	Calculus I	5	MAT 112 with C or better	X					
MAT 202	Calculus II	5	MAT 201 with C or better		X				

4-5 credits from the following:

PHS 201	General Physics I	4	MAT 112 with C or better	X					
PHS 203	University Physics I	5	MAT 201 or concurrent	X					

4-5 credits from the following:

PHS 202	General Physics II	4	PHS 201		X				
PHS 205	University Physics II	5	PHS 203 or PHS 201 and permission		X				

32-33 Elective credits: (BIO 101, BIO 102, MAT 301 recommended)

(Chemistry/Middle-Secondary Education students are required to take BIO 101 Biological Principles I, BIO 102 Biological Principles II, BIO 104 Environmental Science and Lab and CHE 302 Biochemistry is strongly recommended)

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