

# Marian University 2018 - 2019

Student's Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Chemistry and Physics Department**

**Major: Chemistry (BS)**

**120 Credits Required for Graduation**

**46-49 Liberal Arts Core Curriculum University Requirements**

<p><b>FIRST-YEAR STUDIES - 3 credits</b> - All students entering Marian University <b>with fewer than 24 credits</b> are required to successfully complete GEN 101. Transfer students <b>with 24 or more credits</b> do not need to complete GEN 101.</p> <p>Total # of Transfer Credits: _____    <input type="checkbox"/> Gen 101 required    <input type="checkbox"/> Gen 101 <b>not</b> required</p>				
<b>Studies of Natural Sciences and Mathematics</b>	<b>CR</b>	<b>Required LACC if appropriate</b>	<b>CR</b>	<b>GR</b>
Mathematics Common Core	4	see General Ed. Program requirements		
Lab Science Common Core	4	see General Ed. Program requirements		
Elective Core	3	see General Ed. Program requirements		
<b>Studies of Humanities and the Arts</b>				
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		
<b>Studies of Social Sciences</b>				
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		
<b>Studies of Applied Liberal Arts</b>				
Expository Writing Common Core	3	ENG 105		
Argumentative & Research Common Core	3	ENG 106		
Elective Core	3	see General Ed. Program requirements		
<b>Studies of Theology</b>				
Theology Common Core	3	THE 101		
Elective Core	3	see General Ed. Program requirements		
<b>Chemistry Program Specific Requirements</b>				
	<b>CR</b>			
<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>				
<p><b>Comments:</b> Students must complete ½ of the credits in a given major at Marian University if transferring courses in. Students must complete 15 credits of upper level coursework in their major at Marian University and accumulate a total of 30 credits of upper level coursework overall (liberal arts, electives, transfer credits, etc.).</p>				

## Chemistry Major

**58 credits as follows:**

**36 credits:**

COURSE ID	COURSE TITLE	CR	PREREQUISITES	COURSE CYCLE			ADVISOR COMMENTS	CR	GR
				SEM I	SEM II	SUM			
CHE 010	Chemistry Seminar	0		X					
CHE 101	Principles of Chemistry I	4	High School Chemistry or CHE 001 with a grade of C or higher; MAT 001 or appropriate math placement test score	X					
CHE 102	Principles of Chemistry II	4	A grade of C or higher in either CHE 101 or CHE 105		X				
CHE 201	Organic Chemistry I – Lecture	3	CHE 102 with a grade of C or higher	X					
CHE 202	Organic Chemistry II - Lecture	3	CHE 201 with a grade of C or higher		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 with a grade of C or higher	X					
CHE 301	Instrumental Analysis	4	CHE 300		E				
CHE 312	Chemistry Literature and Seminar	2	CHE 010	X	X				
CHE 401	Physical Chemistry I	3	CHE 211 or CHE 300 and MAT 202 or appropriate math placement test score	O					
CHE 402	Physical Chemistry II	3	CHE 401		O				
CHE 425	Chemistry Senior Research I	1	CHE 312	X	X				
CHE 426	Chemistry Senior Research II	1	CHE 425	X	X				
CHE 451	Physical Chemistry I - Lab	1	CHE 401 or concurrent enrollment		O				
CHE 452	Physical Chemistry II - Lab	1	CHE 402 or concurrent enrollment		O				

**2 Chemistry Elective credits: (choose from course numbers above 200)**

**Chemistry/Middle-Secondary Education students are strongly recommended to take CHE 302 Biochemistry.**

CHE 302	Biochemistry	5	CHE 201		X				
CHE 397	Internship	0		*	*	*			
CHE 404	Special Topics	1-5		*	*	*			
CHE 411	Advanced Organic Chemistry	3	CHE 202	*	*	*			
CHE 497	Internship	1-3		*	*	*			

**Other Requirements:**

**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 114 with C or better or permission or appropriate math placement	X					
MAT 202	Calculus II	5	MAT 115 or MAT 201 with C or better or appropriate math placement		X				

**10 credits:**

PHS 203	University Physics I	5	MAT 201 or concurrent or appropriate math placement	X					
PHS 205	University Physics II	5	PHS 203 or PHS 201 and permission		X				

**Elective credits: (BIO 101, BIO 102, BIO 104, 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)**

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

**COMPLETION OF DEGREE REQUIREMENTS:**

**General Requirements**

Total number of credits completed (not including remedial courses): \_\_\_\_\_

Total number of credits completed at Marian (minimum \*30): \_\_\_\_\_

Total number of Upper Level courses completed (minimum of \*30): \_\_\_\_\_

Overall GPA (\*2.00 minimum): \_\_\_\_\_

GPA of Upper Level Courses: \_\_\_\_\_

Last 30 credits of the degree completed at Marian:  Yes       No

**Major Requirements**

Total number of credits completed at Marian within the major (1/2 required): \_\_\_\_\_

Total number of upper level credits completed within the major (minimum \*15): \_\_\_\_\_

All Additional Majors have at least 15 unique credits:  Yes       No