

Marian University 2018 - 2019

Student's Name: _____

Chemistry and Physics Department

Date: _____

Minor: Chemistry Education

Transfer students must complete one-third of their credits in the minor at Marian University.

CHEMISTRY EDUCATION MINOR									
46-47 credits as follows:									
20 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	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	CHE 101 or CHE 105		X				
CHE 201	Organic Chemistry I – Lecture	3	CHE 102	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					
4-5 chemistry elective credits from the following:									
COURSE ID	COURSE TITLE	CR	PREREQUISITES	COURSE CYCLE			ADVISOR COMMENTS	CR	GR
				SEM I	SEM II	SUM			
CHE 301	Instrumental Analysis	4	CHE 300		E				
CHE 302	Biochemistry	5	CHE 201		X				
12 biology credits:									
BIO 101	Biological Principles I	4		X					
BIO 102	Biological Principles II	4	BIO 101		X				
BIO 104	Environmental Science and Lab	4		X	X	E			

Course Cycle

X Offered every year

E Offered in even years (2016-17, 2018-19, etc.)

O Offered in odd years (2017-18, 2019-20, etc.)

* Offered at discretion of faculty as needed

10 physics credits:									
COURSE ID	COURSE TITLE	CR	PREREQUISITES	COURSE CYCLE			ADVISOR COMMENTS	CR	GR
				SEM I	SEM II	SUM			
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				

Additional requirements
All other courses normally applicable to the Middle-Secondary major in sciences.

COMPLETION OF DEGREE REQUIREMENTS:

Minor Requirements

Total number of credits completed at Marian within the minor (1/3 required): _____

All additional minors have at least 9 unique credits: Yes No

Course Cycle

X Offered every year

E Offered in even years (2016-17, 2018-19, etc.)

O Offered in odd years (2017-18, 2019-20, etc.)

* Offered at discretion of faculty as needed