

# BS/BA in Chemistry

Milligan University

Professional Concentration  
Catalog Year 2024-2025

This document is designed as a guide for students planning their course selection and is only a suggested schedule. Actual course selections should be made with the advice and consent of the academic advisor. While accurately portraying the information contained in the College Catalog, this form is not considered a legal substitute for that document. Students should become familiar with the Catalog in effect at the time in which they enter Milligan.

FALL SEMESTER 1		
COURSE	TITLE	CREDITS
CHEM 170	General Chemistry I	4
MATH 211	Calculus I	4
BIBL 123	Old Testament Survey	3
HUMN 101	Ancient & Medieval Cultures	4
GNSC100	Intro to College & Service in the Sciences**	0.5
<b>TOTAL CREDITS</b>		<b>15.5</b>

SPRING SEMESTER 1		
COURSE	TITLE	CREDITS
CHEM 171	General Chemistry II	4
MATH 212	Calculus II	4
HUMN 102	Renaissance & Early Modern Cult.	4
COMP 111	Rhetorical Composition	3
EXSC 101M	Lifetime Wellness	1
<b>TOTAL CREDITS</b>		<b>16</b>

FALL SEMESTER 2		
COURSE	TITLE	CREDITS
CHEM 270	Organic Chemistry I	4
PHYS 203	General Physics I	4
HUMN 201	18th & 19th Century Cultures	4
COMP 211	Found. of Analytical Composition	3
COMM 102	Speech Communication	3
<b>TOTAL CREDITS</b>		<b>18</b>

SPRING SEMESTER 2		
COURSE	TITLE	CREDITS
CHEM 271	Organic Chemistry II	4
PHYS 204	General Physics II	4
HUMN 202	Cultures of 20th & 21st Century	4
BIBL 124	New Testament Survey	3
<b>TOTAL CREDITS</b>		<b>15</b>

FALL SEMESTER 3		
COURSE	TITLE	CREDITS
CHEM 402	Physical Chemistry II	3
CHEM 410	Suggested Elective: Biochemistry I	4
MATH 307	Linear Algebra <sup>2</sup>	3
	General Elective	6
<b>TOTAL CREDITS</b>		<b>16</b>

SPRING SEMESTER 3		
COURSE	TITLE	CREDITS
CHEM 401	Physical Chemistry I	4
	Suggested GER: ES***	3
	General Electives	9
<b>TOTAL CREDITS</b>		<b>16</b>

FALL SEMESTER 4		
COURSE	TITLE	CREDITS
CHEM 342	Analytical Chemistry I	4
CHEM 490	Capstone*	3
	Social Learning GER	3
	General Electives	6
<b>TOTAL CREDITS</b>		<b>16</b>

SPRING SEMESTER 4		
COURSE	TITLE	CREDITS
CHEM 341	Analytical Chemistry II	4
CHEM 405	Advanced Inorganic Chemistry	3
BIBL 471	Christ & Culture	3
	General Electives	6
<b>TOTAL CREDITS</b>		<b>16</b>
<b>MINIMUM 128 NEEDED FOR GRADUATION</b>		<b>128.5</b>

<sup>1</sup> Students may choose COMM 103 Public Speaking (2 hr) if they have checked with their advisers to see if fits with their post-bacc plans

<sup>2</sup> MATH 307 is highly recommended as a prerequisite for CHEM 402

Depending upon a student's post-bacc plans, other courses may be required for admission to graduate programs, so CONSULT with your adviser.

#### Chemistry Electives:

CHEM 499A, B, and C are offered every semester

CHEM491 Internship is offered every semester and summer

#### FALL Odd Years Chemistry Electives:

CHEM410 Biochemistry I

CHEM402 Physical Chemistry II

#### FALL Even Years Chemistry Electives:

CHEM340 Analytical Chemistry I

CHEM494 Capstone

#### SPRING Even Years Chemistry Electives:

CHEM411 Biochemistry II

CHEM401 Physical Chemistry I

#### SPRING Odd Years Chemistry Electives:

CHEM341 Analytical Chemistry II

CHEM405 Inorganic Chemistry