DEGREE CHECKLIST (College of Arts and Sciences) 2024-2025 Catalog

NAME **ID#** **MAJOR B.S. — CHEMISTRY (Chemistry; Biochemistry Degree Tracks)**

GENERAL EDUCATION REQUIREMENTS (29-41 semester hours)

	Check	Hrs.
ACAD 101 (Required of first-time freshmen only)	_____	1
Writing and Critical Thinking:		
WRIT 101 (grade of C- or better is required)	_____	3
HMXP 102 (grade of C- or better in WRIT 101 is required)	_____	3
CRTW 201 (grade of C- or better in HMXP 102 is required)	_____	3
Oral Communication (see approved list; may be met in major with CHEM 552)		
_____	_____	0-3
Technology (see approved list; may be met in major)		
_____	_____	0-3
Intensive Writing (see approved list; may be met in major with CHEM 552)		
_____	_____	0-3
Constitution-Founding Documents (see approved list; may be met with other requirement)		
_____	_____	0-3
Physical Activity (see approved list)		
_____	_____	1
Global Perspectives (see approved list)		
_____	_____	3
Historical Perspectives (see approved list)		
_____	_____	3
Social Science (see approved list; must include 2 designators)		
_____	_____	3
_____	_____	3
Humanities and Arts (see approved list; must include 2 designators)		
_____	_____	3
_____	_____	3
Quantitative Skills (met in major with MATH 201 & 202)		0
Natural Science (met in major with PHYS 211)		0

FOREIGN LANGUAGE (3-8 semester hours)

_____	_____	3-4
_____	_____	0-4

102-level proficiency required

REQUIREMENTS IN THE MAJOR (choose **one** degree track)

Chemistry Degree Track (65-71 semester hrs)

Students completing this degree track will be ACS-certified chemistry graduates.

Course & No.	Hrs.	Check	
BIOL 220/222	(4)	_____	_____
MATH 201, 202	(8)	_____	_____
PHYS 211, 212	(8)	_____	_____
CHEM 201 & 202 or 211	(4-7)	_____	_____
CHEM 204	(2)	_____	
CHEM 301, 302/304	(8)	_____	_____
CHEM 305	(1)	_____	
CHEM 312	(1)	_____	_____
CHEM 313/314	(4)	_____	
CHEM 323	(3)	_____	
CHEM 330/332	(4)	_____	_____
CHEM 407/409	(4)	_____	_____
CHEM 408/410	(4)	_____	
CHEM 491-494	(0)	____, ____, ____, ____	
CHEM 495	(1)	_____	

Complete Option A or B below:

Option A: CHEM 551-552 (6) _____, _____

Three hours from CHEM 307, 420, 502/503, 505/506, 523/525, 529, 530, 541, 570, 571 (3-5) ____, ____, ____

Option B: CHEM 526 or 570 (3) _____

Two of the following: CHEM 502/503, 505/506, 523/525 (8-9) _____, _____

Biochemistry Degree Track (80-85 semester hrs)

Students completing this degree track will be ACS-certified ch and ASBMB Accredited biochemistry graduates.

Course & No.	Hrs.	Check	
BIOL 220/222	(4)	_____	_____
Three courses from BIOL 310, 315, 316, 317, or approved advanced BIOL courses: (10-12) _____, _____, _____, _____			
MATH 201, 202	(8)	_____	_____
PHYS 211, 212	(8)	_____	_____
CHEM 201 & 202 or 211	(4-7)	_____	_____
CHEM 204	(2)	_____	
CHEM 301, 302/304	(8)	_____	_____
CHEM 305	(1)	_____	
CHEM 312	(1)	_____	
CHEM 313/314	(4)	_____	_____
CHEM 323	(3)	_____	
CHEM 330/332	(4)	_____	
CHEM 407/409	(4)	_____	_____
CHEM 408/410	(4)	_____	_____
CHEM 491-494	(0)	____, ____, ____, ____	
CHEM 495	(1)	_____	
CHEM 523/525	(5)	_____	_____
CHEM 524	(3)		
CHEM 551-552	(6)	_____	_____

ELECTIVES (0-23 semester hours)

_____	( )	_____	_____	( )	_____
_____	( )	_____	_____	( )	_____
_____	( )	_____	_____	( )	_____
_____	( )	_____	_____	( )	_____
_____	( )	_____	_____	( )	_____

NOTES

1. Unless stated otherwise, a single course **may not** be used for more than one General Education requirement.
2. All Arts and Sciences majors require a minimum of 40 hours in courses numbered above 299.
3. Attendance at three cultural events is required for each 20 hours completed in residence at Winthrop. Note exceptions in the undergraduate catalog.
4. Designators that differ only for the purpose of theory and application will be considered the same designator in this category.
5. Students should complete WRIT 101, HMXP 102 and CRTW 201 with a C- or better early in their academic careers.
6. See complete catalog requirements at www.winthrop.edu/recandreg