

**DEGREE CHECKLIST (College of Arts and Sciences)**

**2023-2024 Catalog**

**NAME**

**ID#**

**MAJOR B.S. — CHEMISTRY (Pre-Engineering Degree Track)**

**GENERAL EDUCATION REQUIREMENTS (29-41 semester hours)**

**REQUIREMENTS IN THE MAJOR**

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

**Pre-Engineering Degree Track (69-74 semester hrs)**

Students may choose to complete 6-12 hours of optional additional requirements to earn an ACS-certified degree.	Course & No.	Hrs.	Check
	BIOL 220/222	( 4 )	_____
	MATH 201, 202	( 8 )	_____
	MATH 301, 305	( 7 )	_____
	CHEM 201 & 202	( 4-7 )	_____
	or 211		
	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, 492, 493, 494	( 0 )	_____
	CHEM 495	( 1 )	_____
	CHEM 530 or 523/525 ( 3-5 )		_____
	PHYS 211, 212	( 8 )	_____
	PHYS 321	( 3 )	_____

**OPTIONAL**

**Additional Requirements for ACS-certified degree:**

*Option A:*  
CHEM 551-552 (6) \_\_\_\_\_, \_\_\_\_\_

*Option B:*  
CHEM 526 or 570 (3) \_\_\_\_\_ plus additional lab hours

If CHEM 523/525 is taken, add one of CHEM 502/503, 505/506, 526, 570 (3-4) \_\_\_\_\_, \_\_\_\_\_.

If CHEM 530 is taken, add one of CHEM 526, 570 or add two of CHEM 502/503, 505/506, 523/525 (3-9) \_\_\_\_\_, \_\_\_\_\_.

**ELECTIVES (0-19 semester hours)**

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

**FOREIGN LANGUAGE (3-8 semester hours)**

_____	_____	3-4
_____	_____	0-4
102-level proficiency required		

**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](http://www.winthrop.edu/recandreg)