

DEGREE CHECKLIST (College of Arts and Sciences)

2024-2025 Catalog

NAME

ID#

MAJOR B.S. — BIOLOGY (Certification as Medical Technologist)

GENERAL EDUCATION REQUIREMENTS (32-36 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
HMPX 102 (grade of C- or better in WRIT 101 is required)	_____	3
CRTW 201 (grade of C- or better in HMPX 102 is required)	_____	3
Oral Communication (met in major with BIOL 480)		0
Technology (met in major with BIOL 300 & 480)		0
Intensive Writing (met in major with BIOL 300)		0
Constitution-Founding Documents Req. (see approved list; may be met by other req.)		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
_____	_____	
_____	_____	
Humanities and Arts (see approved list; must include 2 designators)		3
_____	_____	
_____	_____	
Quantitative Skills (see approved list)		3-4
_____	_____	
Natural Science (met in major with BIOL 220/222 or 220/270 and CHEM 201 or 211)		0

FOREIGN LANGUAGE (3-8 semester hours)

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

MAJOR COURSES (64-68 semester hours)

Course & No.	Hrs.	Check	Course & No.	Hrs.	Check
BIOL 202	(0)	_____	D) _____	(3-4)	_____
BIOL 220	(3)	_____	D) _____	(3-4)	_____
BIOL 222 or 270	(1-2)	_____	D) _____	(3-4)	_____
BIOL 221	(3)	_____	D) _____	(3-4)	_____
BIOL 223 or 271	(1-2)	_____	E) _____	(3-4)	_____
BIOL 300	(4)	_____	E) _____	(3-4)	_____
BIOL 310	(4)	_____	CHEM 201	(4)	_____
BIOL 316 or 317	(3-4)	_____	CHEM 202/204	(5-6)	____, _____
BIOL 480	(3)	_____	or 211/204		
BIOL 390	(0.5)	_____	CHEM 301	(4)	_____
BIOL 490	(0.5)	_____	CHEM 302/304	(4)	____, _____
BIOL 522	(4)	_____	MATH 141	(3)	_____
A) BIOL _____	(3-4)	_____			
Select one from A, B, or C:					
BIOL _____	(3-4)	_____			

Biology Areas and Electives

- A. Ecology and Evolution (select one course):** BIOL 301, 302, 314, 323, 340 or 403, 405, 407, 507, 513, 542, 551, 552A or B
- B. Cell and Molecular Biology:** BIOL 315 or 320, 321, 422, 517, 519, 522, 526, 528, 529, 532, 539, 555, 560
- C. Biodiversity and Organismal Biology:** BIOL 303, 304, 305, 306, 307, 308, 309, 505, 508, 510, 511, 518, 524, 525, 554
- D. Select additional course to total 44 hours in BIOL from the above lists and from:** BIOL 371, 440, 450H, 460, 461, 463, 471, 472, 530, 540, 570
- E. Math and Science Electives (select 3 hours):** Must be chosen from CHEM 313 & 314 (recommended); 523, 524, and 525; MATH 101, 105, 150, 151, 201, 341, or any MATH course with 201 as a prerequisite (the MATH course used to satisfy Quantitative Skills may not be counted here); PHYS (except 101/102); GEOG 305, 308, 320, or 501 (only one may be applied toward credit in the major); GEOL; NUTR 223 or 227; ENVS 350 (Climate Change Present and Future) or 375; CSCI 101 or CSCI 101A-P (only 3 hours of CSCI may be applied toward credit in the major)

ELECTIVES (8-21 semester hours)

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

NOTES

Satisfactory completion of an approved university-based or hospital-based School of Medical Technology program will complete the certification requirements.

This program may be completed at any NAACLS-accredited hospital-based program or at a university-based school of medical technology.

1. Unless stated otherwise, a single course may not be used for more than one General Education requirement or in a major and a minor.
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.
5. Students should complete WRIT 101, HMPX 102 and CRTW 201 with a C- or better early in their academic careers.
6. See complete catalog requirements at www.winthrop.edu/recandreg