

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

**2020-2021 Catalog**

**NAME**

**ID#**

**MAJOR B.S. — BIOLOGY (Concentration in Biomedical Research)**

**GENERAL EDUCATION REQUIREMENTS (32-36 semester hours)**

	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> (met in major with BIOL 480)	_____	0
<b>Technology</b> (met in major with BIOL 300 & 480)	_____	0
<b>Intensive Writing</b> (met in major with BIOL 300)	_____	0
<b>Constitution Requirement</b> (see approved list; may be met by other req.)	_____	0-3
_____	_____	_____
<b>Physical Activity</b> (see approved list)	_____	1
_____	_____	_____
<b>Global Perspectives</b> (see approved list)	_____	3
_____	_____	_____
<b>Historical Perspectives</b> (see approved list)	_____	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> (partially met in major with MATH 201)	_____	0
<b>Natural Science</b> (met in major with BIOL 220/222 or 220/270 and CHEM 105)	_____	3-4
_____	_____	_____

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

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

**NOTES**

- Unless stated otherwise, a single course **may not** be used for more than one General Education requirement or in a major and a minor.
- All Arts and Sciences majors require a minimum of 40 hours in courses numbered above 299.
- Attendance at three cultural events is required for each 20 hours completed in residence at Winthrop. Note exceptions in the undergraduate catalog.
- Designators that differ only for the purpose of theory and application will be considered the same designator.
- Complete WRIT 101, HMXP 102 and CRTW 201 with a C- or better by 75 hours.
- See complete catalog requirements at [www.winthrop.edu/recandreg](http://www.winthrop.edu/recandreg)

**MAJOR COURSES (71-72 semester hours)**

Course & No.	Hrs.	Check	Course & No.	Hrs.	Check
BIOL 202	( 0 )	_____	Select two of the following:		
BIOL 220	( 3 )	_____	BIOL 519, 522, 555, 560 or		
BIOL 222 or 270	( 1 )	_____	CHEM 523/525		
BIOL 221	( 3 )	_____	_____	( 6-8 )	_____
BIOL 223 or 271	( 1 )	_____	BIOL 471 or BIOL 450H* ( 3 ) _____		
BIOL 300	( 4 )	_____	D) _____ ( 0-3 ) _____		
BIOL 310 or 422	( 4 )	_____	E) _____ ( 3-4 ) _____		
BIOL 315	( 4 )	_____	CHEM 105 ( 4 ) _____		
BIOL 316 or 317	( 3-4 )	_____	CHEM 108 ( 2 ) _____		
BIOL 480	( 3 )	_____	CHEM 301 ( 4 ) _____		
BIOL 491	( 0 )	_____	CHEM 302/304 ( 4 ) _____		
BIOL 492	( 0 )	_____	MATH** _____ ( 3-4 ) _____		
A) BIOL _____	( 3-4 )	_____	MATH 201 ( 4 ) _____		
C) BIOL _____	( 3-4 )	_____	PHIL 230 ( 3 ) _____		
Select one from A, B, or C:					
BIOL _____	( 3-4 )	_____			

**Biology Areas and Electives**

- A. Ecology and Evolution (select one course):** BIOL 302, 314, 323, 403, 405, 407, 507, 513, 551, 552A or B
- B. Cell and Molecular Biology (satisfied by the required program):** BIOL 315, 321, 422, 517, 519, 522, 528, 529, 539, 555, 560
- C. Biodiversity and Organismal Biology (select one course):** BIOL 303, 304, 309, 310, 505, 508, 510, 511, 518, 524, 525, 526
- D. Select additional courses to total 42 hours in BIOL from the above lists and from the following:** BIOL 307, 308, 440, 461, 463, 530, 539, 540, 570
- E. Math and Science Electives:** At least 3 additional hours from MATH 101, 105, 141, 150, 151, 201, 341, or any MATH course with 201 as the prerequisite (the MATH course used to satisfy Quantitative Skills may not be counted here); CHEM (any course above 199 except 461, 462, or 463); PHYS (except 101/102); GEOL; GEOG 305, 320, 501 (only one may be applied toward credit in the major); and QMTH 205, 206 (if MATH 141 not selected).

\*Student must complete two semesters of undergraduate research. A paid summer research position may count as one semester if approved by the Department Chair. A maximum of three hours of credit for research may be used toward the total 42 hours of BIOL courses required for the BS degree.

\*\*MATH 101, 105, 141, 150, 151, 201, 341, or any MATH course with 201 as the prerequisite (the MATH course used to satisfy Quantitative Skills may not be counted here)

**ELECTIVES (8-17 semester hours)**

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