



# B.S. Degree – 2023/2024

## Major: Biology

This program plan is valid only if the student registers for, and completes, a term at Brenau by summer 2024. If the student defers admission to fall 2024 or after, the student must contact the adviser change to the subsequent catalog.

**Note: Students must earn a cumulative grade point average of 2.0 and a major grade point average of 2.5. Students must earn a grade of “C” or better in all major courses.**

### MAJOR CORE: (26-31 hours)

Term	Grade	Course # & Title
_____	_____	HS 205 Science Writing & Research Skills (3)
_____	_____	BY 111 Biological Science I for majors <sup>LE</sup> (4)
_____	_____	BY 112 Biological Science II for majors <sup>LE</sup> (4)
_____	_____	BY 206 Microbiology <sup>LE</sup> (4)
_____	_____	BY 301 Genetics (3)
_____	_____	BY 407 Cell and Molecular Biology (4)
_____	_____	BY 490 Internship (1-6) (may take up to 6 hrs.)
_____	_____	BY 499 Senior Seminar (3)

### OTHER MAJOR REQUIREMENTS: (34-55 hours)

_____	_____	MS 205 Introduction to Statistics <sup>LE</sup> (3)
_____	_____	MS 210 Calculus & Analytical Geometry <sup>LE</sup> (3)
_____	_____	CY 121 General Chemistry I <sup>LE</sup> (4)
_____	_____	PS 121 General Physics I <sup>LE</sup> (4)
_____	_____	CY 122 General Chemistry II <sup>LE</sup> (4)
_____	_____	PS 122 General Physics II <sup>LE</sup> (4)
_____	_____	CY 201 Organic Chemistry I(4)
_____	_____	CY 202 Organic Chemistry II(4)
_____	_____	CY 305 Biochemistry (4)

*Non-Concentration: This section will not be required of any student in a concentration (Biomedical Science, Pre-PT, Pre-Professional Healthcare)*

_____	_____	BY 304 Plant Sciences (4)
_____	_____	BY 305 Animal Behavior (3)
_____	_____	BY 310 General Zoology (4)
_____	_____	BY 451 Biological Field Studies (4)

Choose two from the list below.

BY 207 Wildlife Management (3)	BY 302 Ecology (3)
BY 270/370/470 Res Proj (3 each)	PS 180 Cities & the Environment (3)

<sup>LE</sup> –Liberal Education course. All LE courses are noted on the plan whether satisfying a LE requirement or not.

*Electives:* Electives are not listed on the program plan by the Admissions Office, however all courses are posted to the student’s transcript. Electives needed for graduation can be calculated simply by:

- Adding  
The total number of hours on the student’s transcript  
(available in CampusWEB)  
- hours earned for courses taken at the developmental level  
+ courses currently registered for  
+ courses still outstanding.

A minimum of 120 semester hours is required to graduate from Brenau University. After completing liberal education and major requirements, if the total number of hours on the student’s transcript is not at 120, then the student must take enough general elective hours to reach a cumulative total of 120 hours. If a course is repeated, it is the student’s responsibility to contact the Registrar’s Office to adjust the earned hours on their transcript so that they are not short hours at graduation. Due to placement, a student may graduate with more than 120 semester hours.

*Note: Financial aid recipients cannot receive aid for courses repeated unnecessarily or for courses not specifically required for their degree.*

### CONCENTRATION:

**Students can opt to choose one of the following concentrations: Biomedical Science, Pre-Professional Healthcare, Pre-Physical Therapy (Pre-PT)**

#### Biomedical Science Concentration: (23 – 24 hours)

_____	_____	BY 209 Anatomy and Physiology I <sup>LE</sup> (4)
_____	_____	BY 210 Anatomy and Physiology II <sup>LE</sup> (4)
_____	_____	BY 270 Research Project I (3)
_____	_____	BY 370 Research Project II (3)
_____	_____	BY 470 Research Project III (3)

Choose two from the list below.

EX 300 Kinesiology (4)	PY 101 Intro to Psychology <sup>LE</sup> (3)
HS 201 Clinical Medical Com (3)	PY 202 Hum Growth & Dev (3)
HS 315 Pathophysiology (3)	PY 309 Abnormal Psychology (3)

#### Pre-PT Concentration: (27 hours)

_____	_____	BY 209 Anatomy and Physiology I <sup>LE</sup> (4)
_____	_____	BY 210 Anatomy and Physiology II <sup>LE</sup> (4)
_____	_____	EX 300 Kinesiology (4)
_____	_____	PY 101 Intro to Psychology <sup>1</sup> (3)
_____	_____	PY 202 Human Growth & Dev (3) or PY 309 Abnormal Psychology (3)

Choose two from the list below.

EX 301 Biomechanics (3)	HS 315 Pathophysiology (3)
EX 305 Physiology of Exercise (3)	

#### Pre-Professional Healthcare: (21 hours)

_____	_____	BY 209 Anatomy & Physiology I <sup>LE</sup> (4)
_____	_____	BY 210 Anatomy & Physiology II <sup>LE</sup> (4)
_____	_____	HS 200 Medical Terminology (1)
_____	_____	HS 315 Pathophysiology (3)
_____	_____	PY 101 Intro to Psychology <sup>LE</sup> (3)
_____	_____	PY 202 Human Growth & Development (3)
_____	_____	PY 309 Abnormal Psychology (3)

#### Residency requirement:

A residency requirement of 30 semester hours is required to graduate from Brenau University. This includes a major residency of 21 semester hours.

**Note:** This program plan is not an official document. It is a tool to assist the student and adviser in schedule planning.

*This program plan was prepared by the Registrar’s Office.  
Revised 03/2023*