B.S. Degree
Biology Major
2025/2026 Catalog

This program plan is valid only if the student registers for, and completes, a term at Brenau by summer 2026. If the student defers admission to fall 2026 or after, the student must contact the adviser to change to the subsequent catalog.

Women's College students must complete the GOLD Program Curriculum. The number of courses required will be based on the number of hours of transfer credit accepted.

Student Name _____

Id No _____

Previous Degree: _____ A.A. _____ A.S. _____ Bachelor's

Where/term degree earned _____

If the student transfers fewer than 24 post-secondary school hours to Brenau, one of the following courses is required to graduate:
AS 100W/AS 110/AS 111 (depending on program) _____

Liberal Education:

The Liberal Education program is divided into four portals. Please see the Brenau University catalog or the Brenau University web site for a list of applicable courses for each requirement. ***If the student earned a previous degree (must be A.A., A.S., or Bachelor's Degree) from a regionally accredited institution, the Liberal Education section of the student's program is considered complete.***

World Understanding	***Term***	***Grade***	***Course Number & Title***
Historical Perspective (3 hrs)	_____	_____	_____
Global Awareness (3 hrs)	_____	_____	_____
Civic Engagement (3 hrs)	_____	_____	_____

Scientific & Analytic Curiosity	
Mathematics (3 hrs)	Satisfied by required major course MS 210. Students may have to take MS 101 and/or MS 111 to meet the course prerequisite.
Science (7-8 hrs)	Satisfied by major course.
	Satisfied by major course.
Reasoning (3-4 hrs)	Satisfied by major course.

Artistic & Creative Imagination			
Fine Arts (3 hrs)	_____	_____	_____
Literature (3 hrs)	_____	_____	_____
Lifetime Fitness (3 hrs) *(Undergraduate students not enrolled in the Women's College may take HS 105 (3 hours) to satisfy this requirement.)*	_____	_____	HL _____ Title: _____
	_____	_____	DA/LS/*or* LF _____ Title: _____
	_____	_____	DA/LS/LF/*or* HL _____ Title: _____

Note: For Lifetime Fitness, Women's College students must take the three, one-hour courses as outlined above. LF 199 can count as either activity (LF) or classroom (HL) P.E.

Communication & Language Fluency			
Writing (6 hrs)	_____	_____	EH 101 Written Communication
	_____	_____	EH 102 Reading & Research Writing
Speaking (3 hrs)	_____	_____	_____
Modern Language (0-3 hrs)	_____	_____	_____ Modern Language at level 102 or higher
	Must complete language through the high beginner level (102 or equivalent. If 101 & 102 are taken, 101 can be applied toward the Communication requirement or used as a general elective. May be placed into 102 via WebCape or exempted by competency exam (BYU FLAT test or CLEP).		
Communication (3 hrs)	_____	_____	_____

Comments:

_____

_____

_____ Needs Math Placement Exam

_____ Needs English Placement Exam

Program Plan Revised by: _____ _____

Date: _____ _____

Revised 02/2025

B.S. Degree – 2025/2026
Major: Biology

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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 LE (4)
_____ _____ BY 112 Biological Science II for majors LE (4)
_____ _____ BY 206 Microbiology LE (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 LE (3)
_____ _____ MS 210 Calculus & Analytical Geometry LE (3)
_____ _____ CY 121 General Chemistry I LE (4)
_____ _____ CY 122 General Chemistry II LE (4)
_____ _____ CY 201 Organic Chemistry I (4)
_____ _____ CY 202 Organic Chemistry II (4)
_____ _____ CY 305 Biochemistry (4)
_____ _____ PS 121 Introductory Physics I LE (4)
_____ _____ PS 122 Introductory Physics II LE (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 270/370/470 Res Proj (3 each)
BY 302 Ecology (3)
PS 180 Cities & the Environment (3)

LE –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 LE (4)
_____ _____ BY 210 Anatomy and Physiology II LE (4)
_____ _____ BY 270 Biology Research Project I (3)
_____ _____ BY 370 Biology Research Project II (3)
_____ _____ BY 470 Biology Research Project III (3)

Choose two from the list below.

_____ _____ _____
_____ _____ _____

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

Pre-PT Concentration: (27 hours)

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

Choose two from the list below.

_____ _____ _____
_____ _____ _____

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

Pre-Professional Healthcare: (21 hours)

_____ _____ BY 209 Anatomy & Physiology I LE (4)
_____ _____ BY 210 Anatomy & Physiology II LE (4)
_____ _____ HS 200 Medical Terminology (1)
_____ _____ HS 315 Pathophysiology (3)
_____ _____ PY 101 Intro to Psychology LE (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 02/2025