



**B.S. Degree
Biology Major
2012/2013 Catalog**

How to use this program plan: Please write the term and grade for the course that satisfies each requirement.

Student Name _____
 S. SSN/Id No _____
 S. Phone (w) _____ (h) _____
 Adviser _____
 Previous Degree: _____ A.A. _____ A.S. _____ Bachelor's
 Where/term degree earned _____

Liberal Education:

(If student took honors courses-use those courses in place of the corresponding non-honors equivalent.)

The Liberal Education program is divided into four portals: Communication & Language Fluency, Artistic & Creative imagination, Scientific and Analytic Curiosity and, World Understanding. Please see the Brenau University catalog or the Brenau University web site for a list of applicable courses for each requirement. Some majors have more than one course that can satisfy a LE requirement. In those cases, only one of those courses will list on the LE portion of the plan, however, all the courses will be noted on the reverse side of this plan. ***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)	_____	_____	_____
Science & Analytic Curiosity			
Mathematics (3 hrs)	_____	_____	MS 210 Calculus with Analytical Geom. <i>(satisfied through major course)</i>
Science (7-8 hrs)	_____	_____	BY 111 Biological Science I for majors <i>(satisfied through major course)</i> BY 112 Biological Science II for majors <i>(satisfied through major course)</i>
Reasoning (3-4 hrs)	_____	_____	MS 205 Introduction to Statistics <i>(satisfied through major course)</i>
Artistic & Creative Imagination			
Fine Arts (3 hrs)	_____	_____	_____
Literature (3 hrs)	_____	_____	_____
Lifetime Fitness (3 hrs)	_____	_____	WH _____ Title: _____ LS/or LF _____ Title: _____ LS/LF/ or WH _____ Title: _____
Communication & Language Fluency			
Writing (6 hrs)	_____	_____	EH 101 Written Communication EH 102 Reading & Research Writing
Speaking (3 hrs)	_____	_____	_____
Modern Language (0-3 hrs) <i>Complete language through the 102 level (or exempt by BYU FLAT test). If taken, 101 will count as a general or communication elective.</i>	_____	_____	CH/IN/FH/or SH 102/or 115 <i>(or higher)</i>
Communication Elective (3 hrs)	_____	_____	_____

Comments: _____

Program Plan Revised by: _____

Date _____

B.S. Degree – 2012/2013

Major: Biology

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:

Term	Grade	Course # & Title
_____	_____	BY 111 Biological Science I for majors ^{LE}
_____	_____	BY 112 Biological Science II for majors ^{LE}
_____	_____	BY 301 Genetics
_____	_____	BY 407 Cell and Molecular Biology
_____	_____	BY 490 Internship (1 hr.) – may take up to 6 hrs.
_____	_____	BY 412 Senior Seminar

OTHER MAJOR REQUIREMENTS:

_____	_____	MS 205 Introduction to Statistics ^{LE}
_____	_____	MS 210 Calculus and Analytical Geometry ^{LE}
_____	_____	CY 121/CY 121L General Chemistry I ^{LE}
_____	_____	PS 121/PS 121L General Physics I ^{LE}
_____	_____	CY 122/CY 122L General Chemistry II ^{LE}
_____	_____	PS 122/PS 122L General Physics II ^{LE}
_____	_____	CY 201/CY 201L Organic Chemistry I
_____	_____	CY 202/CY 202L Organic Chemistry II
_____	_____	CY 305/CY 305L Biochemistry

^{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:

Choose one of the following:

- Biomedical
- Ecology and Biodiversity
- Non-concentration option

Biomedical Science Concentration: (17 – 20 hours)

_____ BY 209 Anatomy and Physiology I ^{LE}
 _____ BY 210 Anatomy and Physiology II ^{LE}

Choose three from the list below.

BY 206 Microbiology ^{LE} HS 415 Pathophysiology
 OT 320 Neuroscience BY 421 Molecular Biology
 PNB 408 Clinical Immunology

Ecology and Biodiversity Concentration: (19 – 20 hours)

_____ BY 206 Microbiology ^{LE}
 _____ BY 302 Ecology
 _____ BY 312 Vertebrate Biology

Choose two from the list below.

BY 201 Environ Bio I ^{LE} BY 310 General Zoology
 BY 202 Environ Bio II ^{LE} BY 311 Invertebrate Zoology
 BY 451 Intern. Zoological Survey BY 340 Island Microcosms

Non Concentration Option: (17-20 hours)

Choose any combination of five biology courses.

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.

NOTES: