



BACHELOR OF SCIENCE IN BIOLOGICAL SCIENCE, 6 – 12 LICENSURE

(Minimum 129 credit hours required)

This program requires a minimum 2.75 GPA overall, in English Composition and Mathematics, in the Specialty Area Requirements, and in the Professional Education / Professional Semester Requirements, as well as a grade of C or above in all Professional Education courses.

NAME _____

DATE ____/____/____

RELIGION CORE

DEVELOPING BIBLICAL FAITH/LIFESTYLE

- BIBL-110 Message of the New Testament (3)..... ()
- BIBL-111 Message of the Old Testament (3)..... ()
- THEO-230 Intro. to Theology (3)..... ()
- THEO-231 Intro. to Christian Ethics (3)..... ()
- Christian Service (80 clock hours)* ()

*Christian Service is not a course; the hours are earned by a combination of class, group, and individual service learning experiences.

SUBTOTAL (12 hours) _____

FRESHMAN / SOPHOMORE EXPERIENCE

- LEEU-101 Freshman Seminar: Gateway (1) (1st Fall)..... ()
- LEEU-102 Global Perspectives Seminar (1) (1st Spring).... ()
- LEEU-202 Foundations of Benevolence (1) (2nd Fall) ()

SUBTOTAL (3 hours) _____

GENERAL EDUCATION CORE

ACQUIRING FUNDAMENTAL ACADEMIC SKILLS

- ENGL-106 (3) and ENGL-110 (3)..... () ()
- OR ENGL-110 (3) [Depends on placement]

EXPLORING THE HUMANITIES

- HUMN-201 Foundations of Western Culture (3)..... ()

Two of the following (6)

- HUMN-202 Rise of Europe (3) () ()
- HUMN-301 Foundations of Modern World (3)
- HUMN-302 Modern Western Culture (3)
- HIST-221 / 222 Western Civilization I, II (3) (3)
- ENGL-221 Western Lit: Ancient to Renaissance (3)
- ENGL-222 Western Lit: Enlightenment to Postmodern (3)

One of the following (3)

- ARTS-201 Art in Culture (3) ()
- MUHL-211 Music in Culture (3)
- PHIL-241 Introduction to Philosophy (3)
- THEA-201 Theatre in Culture (3)

UNDERSTANDING CONTEMPORARY SOCIETY

- HIST-212 Recent American History (3)
- OR
- PLSC-250 American Government (3)..... ()

Two of the following (6)

- PSYC-200 Understanding Human Behavior (3)..... () ()
- SOCI-200 Understanding Contemporary Society (3)
- ECON-200 Understanding Economic Issues (3)

SEEKING A GLOBAL PERSPECTIVE

- GNST-250-253 Cross Cultural Experience (1-3)..... ()
- LING-201 Intro Language and Culture (3)..... ()

SUBTOTAL (28/33 hours) _____

ACADEMIC ASSESSMENT

- FMPT-BIO Freshman Major Field Test: Biology (0) ()
- GNST- 400 Academic Assessment (0)..... ()
- SMFT-BIO Major Field Test: Biology (0)..... ()

SPECIALTY AREA*

- BIOS-161 Principles of Biology I (4)..... ()
- BIOS-162 Principles of Biology II (4)..... ()
- BIOS-261 Genetics (4)..... ()
- BIOS-361 Cell Biology (3)..... ()
- BIOS-362 Ecology (4)..... ()
- BIOS-461 Molecular Biology (3)..... ()
- BIOS-462 Evolutionary Biology (4)..... ()
- BIOS-490 Senior Seminar (1)..... ()

Biology Electives: (4 hours)

Select course offerings in Biology at the 300 level or above [BIOS-495 does not count]

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 ()

Elective courses may be taken through the Au Sable Institute of Environmental Studies, and a current list of Au Sable courses is available at www.ausable.org

SUBTOTAL (31 hours)..... _____

COLLATERAL REQUIREMENTS*

- BIOS-495 Science and Scripture (3)..... ()
- CHYS-132 Principles Organic & Biochemistry (3)..... ()
- CHYS-132L Principles Organic & Biochem Lab (1)..... ()
- CHYS-161 General Chemistry I (4)..... ()
- GSCI-122 Earth & Space Science (4)..... ()
- MTHS-261 Calculus I (4)..... ()
- PHYS-261 Physics I (4)..... ()

HLTH-360 Personal & Community Health (3)

OR

- BIOS-231 Principles of Nutrition (3)..... ()

SUBTOTAL (26 hours)..... _____

PROFESSIONAL

- EDUC-199 Intro To The Teaching Profession (1)..... ()
- EDUC-299 Teaching Diverse Learners (2)..... ()
- EDUC-315 Foundations of Education (3) OR
- EDMG-315 Found. Middle Grades Educ (3)..... ()
- EDUC-330 Assessing Educational Development (3) ... ()
- SPED-316 Exceptional Child (3)..... ()
- SCED-340 Prin.Classroom Instr./Secondary (2)..... ()
- SCED-416 Teaching Science, Grades 6 -12 (2)^F..... ()
- SCED-416L Methods Lab (1)^F..... ()

^F Offered Fall Semester only

SUBTOTAL (17 hours)..... _____

PROFESSIONAL SEMESTER

- EDUC-496 Student Teaching I (5)..... ()
- EDUC-497 Student Teaching II (5)..... ()
- EDUC-498 Student Teaching Seminar (2)..... ()

SUBTOTAL (12 hours)..... _____

*** Departmental policy requires a grade of C or above in all Specialty Area and Collateral Requirements.**

SUGGESTED FOUR YEAR SEQUENCE OF STUDY FOR BACHELOR OF SCIENCE IN BIOLOGICAL SCIENCE, 6 – 12 LICENSURE

(The 80-clock-hour Christian Service requirement is not listed but is spread throughout the four years.)

FRESHMAN

<u>Course</u>	<u>Hours</u>
LEEU-101, 102.....	2
College Writing.....	3
Rhetoric and Research	3
Message of New & Old Testament.....	6
Intro to Teaching Profession	1
Principles of Biology I.....	4
Principles of Biology II.....	4
U S History/Government Option.....	3
Contemporary Society Option 1 & 2	6
Total	32

SOPHOMORE

<u>Course</u>	<u>Hours</u>
LEEU-202 Benevolence.....	1
Intro. to Theology	3
Intro. to Christian Ethics	3
Principles of General Chemistry.....	4
Principles of Organic & Biochemistry/Lab	4
Language and Culture.....	3
Calculus	4
Cross-Cultural Experience	1/3
Earth & Space Science	4
Humanities Option.....	3
Teaching Diverse Learners	2
Foundations of Western Culture.....	3
Total	35

JUNIOR

<u>Course</u>	<u>Hours</u>
Assessing Educational Development.....	3
Genetics.....	4
Cell Biology	3
Exceptional Child	3
Personal & Community Health OR Nutrition	3
Humanities Options.....	6
Physics.....	4
Ecology	4
Foundations of Education (or MG Foundations).....	3
Principles Classroom Instruction/Secondary.....	2
Total	35

SENIOR (fall)

<u>Course</u>	<u>Hours</u>
Molecular Biology.....	3
Science and Scripture (Capstone)	3
Evolutionary Biology.....	4
Senior Seminar	1
Teaching Science, Grades 6 – 12 and Lab	3
Biology Electives (300 level or above)	4
Total	18

PROFESSIONAL SEMESTER (spring)

<u>Course</u>	<u>Hours</u>
Student Teaching Seminar.....	2
Student Teaching I.....	5
Student Teaching II.....	5
Total	12