Proposal for a New Major in Biology Education within the B.S. in Biology Degree Program

Proposed:
BS Biology Education Major

Requirements for Admission into the Major:
1) Completion of 60 hours
2) Completion of all general education requirement
3) 2.5 GPA
4) Achieve the competencies of the CLAS requirement. Students in the Education major may do this by passing the General Knowledge Exam, or the Praxis I. Note: Students with a CLAS exemption must pass the FTCE General Knowledge Exam prior to admission to the program.

Lower Division Requirements: Common Prerequisites
A grade of C or better required:
BSC 1010 General Biology
BSC 1010L General Biology I Lab
BSC 1011 General Biology II
BSC 1011L General Biology II Lab
CHM 1045 General Chemistry I
CHM 1045L General Chemistry I Lab
CHM 1046 General Chemistry II
CHM 1046L General Chemistry II Lab
CHM 2010 Organic Chemistry I
CHM 2010L Organic Chemistry I Lab
CHM 2011 Organic Chemistry II
CHM 2011L Organic Chemistry II Lab
PHY 2048 Physics with Calculus I,2
PHY 2048L General Physics I Lab 1,2
PHY 2049 Physics with Calculus II 1,2
PHY 2049L General Physics II Lab 1,2
MAC 2311 Calculus I 3
MAC 2312 Calculus II 3
OR
STA 2122 Intro to Statistics I 3
STA 3123 Intro to Statistics II 3

1. Organic Chemistry sequence or Physics sequence must be taken at the Lower Division.
2. Physics without Calculus I and II (PHY 2053 and PHY 2054) can substituted for Physics with Calculus I and II.
3. Calculus I and II must be taken at the lower division. If Statistics I is taken it must be taken at the Lower Division. Both Statistics I and II are required to replace Calculus II only. STA 3111 and STA 3112 may be substituted for STA 2122 and STA 2123.

Upper Division Biology Education Program
Required Courses
PCB 3043 Ecology 3
PCB 3063 Genetics 3
PCB 4023 Cell Biology 3
PCB 4674 Evolution 3
BSC 4931 Senior Seminar 1
BSC 3XXX Biology Education Seminar 1 *
*Approved as SCE 3813

Biology Education Upper Division Electives
Select one course each of the following areas:
A. Ecology
B. Organismal Diversity
C. Physiology/Biochemistry
D. Structure/Development
(If a course satisfies the distribution requirement, the letter of the area it satisfies is in brackets after the course description)

Biology Laboratory Requirement
Two Upper Division Labs 2

Education Requirements
SCE 4894 Nature of Math and Science 3
SCE 4194 Perspectives in Science and Math Education 3
SCE 4330 Secondary Science Teaching Methods 3
SCE 4944 Student Teaching 6
SCE 4931 Senior Seminar in Science Ed 2
RED 4325 Subject Area Reading 3
TSL 4324 ESOL in Content Areas 3

Other Arts and Sciences Requirements:
1. A minimum of 120 semester hours in acceptable coursework is required.
2. At least half of the upper division credits in any major must have been taken in at FIU.
3. In the last 60 semester hours of enrollment, students must earn nine semester hours of elective credits.
through coursework outside the major, six of which are
to be taken outside the department sponsoring the program.

4. Students must earn a grade of C or higher in all
courses required for the major. A grade of C- or lower is
not acceptable in any required course.

5. Of the total number of hours submitted for
graduation, a minimum of 48 semester hours must be in
upper division courses.

6. Students must demonstrate competency in a foreign
language or in American Sign Language at the level of
the second semester of a college language sequence.
(High school courses cannot be used to fulfill this
requirement.) This requirement may be met by
successfully completing with a grade of C or better (C-
does not count): a) the second semester of a two-
semester sequence basic language course or b) any
second-year or third-year foreign language course. This
requirement may also be fulfilled by presenting
acceptable scores in the Advanced Placement Exam, the
SAT II, the CLEP exam, or other approved instruments.
Students should consult their advisors for more specific
information.

7. One- and two-credit physical activity courses (with
the prefixes PEL, PEM, PEN) cannot be included as part
of the hours needed for graduation.

**Additional Graduation Requirements:**
All majors are required to meet the following
requirements before they can graduate from this teacher
education program:

1. Have an overall GPA of 2.5
2. Successfully demonstrate all the Florida Educator
Accomplish Practices at the pre-professional level. This
is done throughout your coursework in the College of
Education.
3. Pass the FTCE General Knowledge, Professional
Educator, and Subject Area exams prior to graduation.