

THE UNIVERSITY OF NORTH CAROLINA AT ASHEVILLE
FACULTY SENATE

Senate Document Number 10612S

Date of Senate Approval 04/05/12

Statement of Faculty Senate Action:

APC Document 97: **Remove EDUC 456 as an option for competency in Biology
for teacher licensure students;
Remove PHYS 131 as an option for upper-level Biology course
in Concentration in General Biology for non-licensure students;
Edit requirements for Biology with Teacher Licensure**

Effective Date: Fall 2012

1.Delete: On page 89, under **Requirements for All Biology Majors**, items I and III:

- I. Required courses in the major—18–20 hours including: BIOL 115, 116, 210, 211; either 480 or 498. Individuals who are seeking teacher licensure should complete EDUC 456 in place of BIOL 480 or 498.
- III. Other departmental requirements—Completion of requirements in one of the concentrations listed below. Major, oral, and computer competencies are satisfied by completion of BIOL 480 or 498, or EDUC 456, with a grade of C or higher.

Add: On page 89, in place of deleted entry:

- I. Required courses in the major—18–19 hours including: BIOL 115, 116, 210, 211; either 480 or 498.
- III. Other departmental requirements—Completion of requirements in one of the concentrations listed below. Major, oral, and computer competencies are satisfied by completion of BIOL 480 or 498 with a grade of C or higher.

2.Delete: On page 89, under **Concentration in General Biology**, after the listing of courses:

Note: PHYS 131 may be substituted for one of these courses.

3.Delete: On pg. 90, under **Biology with Teacher Licensure**

Students who wish to receive teacher licensure in 9–12 Biology or Comprehensive Science must complete all requirements for the Biology major with Concentration in General Biology including PHYS 131 and also all additional requirements

indicated in the Education Section of the catalog. Students who wish to receive licensure in 9–12 Comprehensive Science must also complete ENVR 105, 130 and PHYS 231. Students seeking middle school licensure should review requirements found in the Education section of the catalog and see the appropriate licensure advisor for additional information.

Add: On pg. 90, in place of deleted entry:

Students who wish to receive teacher licensure in 9–12 Biology or Comprehensive Science must complete all requirements for the Biology major as well as PHYS 131 and all additional requirements indicated in the Education section of the catalog. Students completing the Concentration in General Biology for teacher licensure may use PHYS 131 as a substitute for one of the 300-400 level required Biology elective courses in the concentration. Students who wish to receive licensure in 9–12 Comprehensive Science must also complete ENVR 105, 130 and PHYS 231. Students seeking middle school licensure should review requirements found in the Education section of the catalog and see the appropriate licensure advisor for additional information.

Impact:

All students who major in Biology will now be required to complete BIOL 480 or 498, regardless of their concentration. Students with a Concentration in General Biology will no longer be able to substitute PHYS131 for a Biology course unless they are teacher licensure students. There is no change in the number of courses required for the non-licensure student. Students who seek teacher licensure in 9-12 Biology or Comprehensive Science will now take one additional course, completing BIOL 480 or 498, in addition to EDUC 456.

Rationale:

All students who major in biology, and especially those who plan to teach biology, should demonstrate competency in biology by exploration of the primary literature of the discipline and use of the expertise gained to design and complete a laboratory research project that is presented orally and as a paper (BIOL 498), or to participate actively in discussions of that literature and prepare an oral and written proposal or review that synthesizes information from the primary literature (BIOL 480). Expertise gained from participation in one of these courses, and experience describing biological concepts in oral and written communications, is at least as valuable to teacher licensure students as it is for other students majoring in biology.

While PHYS 131 is removed as a substitute for an upper level biology course for students who concentrate in general biology, to ensure more thorough preparation in biology for those majors, these students will be encouraged to complete PHYS 131.