

THE UNIVERSITY OF NORTH CAROLINA ASHEVILLE  
FACULTY SENATE

Senate Document Number SD1321F  
Date of Senate Approval 12/02/2021

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Statement of Faculty Senate Action:

**APC Document 9 (EDUC): Specify the requirements for 9-12 Comprehensive Science Licensure;  
Specify the majors required for 9-12 Licensure**

**Effective Date: Fall 2022**

1. **Delete:** On page 128, item II under **Secondary School Licensure (9-12):**
  - II. Required courses outside Education—4-20 hours, including PSYC 319. In addition, Latin candidates must take LANG 395. Social Studies candidates must take ECON 103, HIST 101, 102, 151, 152; POLS 220 or 281; and one course from SOC 200 or 220. History majors must take HIST 312 instead of POLS 220 or 281.

**Add:** On page 128, in place of deleted entry:

- II. Required courses outside Education—4-42 hours, including PSYC 319. In addition, the following is required based on licensure area:
  - Comprehensive Science—BIOL 125, 126; CHEM 111, 132, 145, 233; ENVR 105, 130; PHYS 131, 231; and MATH 191 (requires completion of MATH 167 or placement). BIOL 135 and 136 can be taken instead of BIOL 125 and 126, and PHYS 221 and 222 can be taken instead of PHYS 131 and 231.
  - Latin—LANG 395.
  - Social Studies—ECON 103; HIST 101, 102, 151, 152; POLS 220 or 281; and one course from SOC 200 or 220. History majors must take HIST 312 instead of POLS 220 or 281.

**Impact:** The Comprehensive Science Licensure option has been in place for many years with this set of required courses. This proposed addition simply adds them to the 9-12 licensure listing in the Education section of the catalog just like the requirements for Latin and Social Studies licensure.

This addition is not expected to have any meaningful impact on resources. Over the past five years, only four students have completed the 9-12 Comprehensive Science Licensure program. Any increase in the number of students adding this licensure area as a result of listing the required courses will be negligible, and can certainly be handled without a need for additional sections of any courses in any department.

**Rationale:** Currently, majors that offer Comprehensive Science licensure have a brief entry in their departmental section of the catalog listing the required courses for 9-12 Comprehensive Science. Adding those courses to the 9-12 licensure section of the catalog will make it much easier for students to see what is required.

2. **Delete:** On page 125, the licensure areas under **Areas of Licensure and Required Majors:**

- Elementary Education (K–6)
- Middle School (6–9): Language Arts, Mathematics, Science, Social Studies
- Secondary Education (9–12): Biology, Chemistry, Comprehensive Science, Earth Science, English, Latin, Mathematics, Physics, Social Studies
- Kindergarten–12 (K–12): Art, Modern Language (French and Spanish), Special Education: General Curriculum, Theatre Arts

**Add:** On page 125, in place of deleted entry:

- Elementary Education (K–6)
- Middle School (6–9): Language Arts, Mathematics, Science, Social Studies
- Secondary Education (9–12): Biology, Chemistry, Comprehensive Science (Atmospheric Sciences, Biology, Chemistry, Environmental Studies, or Physics), Earth Science, English, Latin (Classics), Mathematics, Physics, Social Studies (Anthropology, Economics, History, Political Science, or Sociology)
- Kindergarten–12 (K–12): Art, Modern Language (French and Spanish), Special Education: General Curriculum, Theatre Arts

**Impact:** These changes make it explicit what majors must be chosen for the 9-12 licensure areas that aren't associated with a single major, such as Comprehensive Science and Social Studies. Although this proposal is mainly addressing 9-12 Comprehensive Science Licensure, similarly adding the required majors for Latin and Social Studies licensure to the catalog creates consistency.

Latin and Social Studies licensures are associated with a Teaching concentration, but the same isn't necessarily true for 9-12 Comprehensive Science Licensure, which is an option for all ATMS, BIOL, CHEM, ENVR, and PHYS majors to pursue regardless of their major concentration. For example, an Environmental Studies major could add 9-12 Comprehensive Science Licensure to their Ecology and Environmental Biology concentration without needing to have a Teaching concentration in Environmental Studies, which is currently indicative of licensure in Earth Science. In this way, 9-12 Comprehensive Science Licensure will function in much the same way that K-6 Elementary Education does, in that a student isn't required to have a Teaching concentration. Students will complete the requirements for the major concentration, and then the additional courses required for licensure. No change is being proposed for any major, and requirements are not impacted.

Other important details include:

- Students who add 9-12 Comprehensive Science Licensure can drop the licensure program at any time and doing so will not impact their progress towards their major or graduation. This is because the licensure program is decoupled from a particular major concentration, and doesn't require a re-declaration of major with the potential for requirements to have changed.
- Providing this option for students in no way suggests that it is advisable for a student to pursue 9-12 Comprehensive Science Licensure; it simply more clearly articulates that it's possible. There are some major concentrations for which this licensure program cannot be completed in four years

without summer coursework. Determining whether this course of study is appropriate should be determined in consultation with an academic advisor.

- Providing this option does not create a new major concentration. That is, there will not be an added “<DEPT> with 9-12 Comprehensive Science Licensure” option. The licensure program will stand apart from the major.

These changes will not impact BIOL and CHEM licensure students who must complete the “regular” requirements for their majors, although it will be clearer that they can pursue a 9-12 Comprehensive Science license without also pursuing a 9-12 Biology or 9-12 Chemistry license.

ATMS does not have a teacher licensure option listed in the catalog, and these changes will articulate that there is a pathway to a 9-12 Comprehensive Science license for those students. PHYS students already have an option for a concentration in Physics with Comprehensive Science Licensure; these changes give all Physics majors the option of pursuing this license. ENVR has an Earth Science with 9-12 Teacher Licensure concentration, which allows students to earn their 9-12 Earth Science license. The current catalog affords these students the option to “double-license” by adding the additional Comprehensive Science coursework. The proposed changes will give all ENVR majors the option of pursuing 9-12 Comprehensive Science Licensure without also pursuing the 9-12 Earth Science license, while still leaving the “double-license” option intact. This is an attractive option for students who would like to earn their teacher’s license in a concentration other than Earth Science.

**Rationale:** A 9-12 Comprehensive Science teacher’s license certifies that the license holder is qualified to teach any high school science course specified in the North Carolina Standard Course of Study. It provides our graduates with greater flexibility when seeking employment and a broader science education as reflected in the content course requirements.

The changes proposed here do not alter the existing coursework requirements, nor do they alter existing major concentrations or graduation requirements. Rather, it more clearly articulates the options that are currently available, but not widely known. Codifying this licensure pathway for students will remove confusion about which students are eligible and how the 9-12 Comprehensive Science Licensure program should appear in GradPlan.

Faculty colleagues in ATMS, BIOL, CHEM, ENVR, and PHYS were consulted and expressed a desire to make this 9-12 Comprehensive Science License an option for all majors in those departments. In fact, the coursework requirements were compiled from current Catalog entries relating to 9-12 Comprehensive Science Licensure for BIOL, CHEM, and PHYS, indicating the coursework has previously gone through levels of review and approval by the Education department, the North Carolina Department of Public Instruction, and Faculty Senate.