

## **Undergraduate Secondary Science Education Program Guidelines (CUI)**

### **Introduction:**

This packet has been prepared to assist students in understanding the requirements and parameters set forth by UNCG, the School of Education, and the Teacher's Academy for Undergraduate Secondary Science Education students. However, this handbook should be used as a guide and not a substitute for the advisor/advisee process. All students are to regularly meet with their advisor to insure proper progress in the program.

### **Purpose and Nature of the Secondary Science Curriculum:**

The Undergraduate Secondary Science Initial Licensure Programs are designed to prepare candidates to help secondary school students become active, informed, scientifically literate, and responsible citizens. Program candidates will interpret and understand how the sciences increase students' awareness of the physical and natural world. Program candidates will help secondary students acquire and perfect the skills of individual and group inquiry and help students examine a broad range of science concepts. In addition, program candidates will acquire the knowledge, skills, attitudes, and values that will enable them to assist secondary students in their efforts at being problem-solvers, good decision-makers, and wise planners.

### **Goals of the UNCG Secondary Science Education Program:**

- 1) The program will enhance the development of initial science teachers through participation in a planned curriculum resulting in an initial licensure in secondary science.
- 2) The program will develop candidates who understand the philosophy and mission of secondary science education.
- 3) The program will develop candidates who understand human development and the implications for secondary education.
- 4) The program will develop candidates who critically evaluate the historical and contemporary conceptualizations of the sciences.
- 5) The program will provide for the development of skills required to formulate objectives, use resources, select content, use effective teaching strategies, evaluate learning outcomes, and interact with students, parents, and the community.

6) The program will develop the candidate's awareness of the necessity for continuing education and professional development.

**Science Education Advisor Contact Information:**

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**Undergraduate Procedures for Students Seeking Initial Licensure:**

**1. Advisor Meeting.**

Deadline: First week of your first semester on campus and at the beginning and end of each semester thereafter.

**2. Download the Teacher Education Handbook at:**

[http://www.uncg.edu/soe/newsite/teachers\\_academy/documents/Handbook.TA.UG.06.pdf](http://www.uncg.edu/soe/newsite/teachers_academy/documents/Handbook.TA.UG.06.pdf)

Deadline: First semester on campus.

**3. Register, take, and pass the Pre-Professional Skills Tests (PPST) – Reading, Writing, and Math OR Substitute SAT scores for PPST scores**

Necessary Scores:

PPST Reading 176

PPST Writing 173

PPST Math 173

Details regarding registration and fees can be found at the Student Advising and Recruitment Center (SARC, 341A Curry Building).  
Deadline: No later than 2nd semester of the sophomore year; if you are a junior transfer, no later than your second semester on campus.  
Note: Until students pass the PPST, they are not allowed to enroll in more than 50% of their professional education courses and will not be admitted to Teacher Education.

**4. Apply to the UNCG Teacher Education Program by completing the application in the Teacher's Academy (319 Curry Bldg.)**

Deadline: End of sophomore year or upon junior status with a GPA of 2.50 and passing scores on the PPST. Transfer students must complete 12 hours at UNCG prior to applying.

**5. Make a copy of your audit and bring it to your advisor at next meeting.** Deadline: During first semester of junior year. Audits are available online on Genie.

**6. Apply for Student Teaching by completing the application in the Teacher's Academy (Curry 321).**

Deadline: Applications must be submitted between January 15 and February 15 of the year BEFORE you plan to student teach. To be eligible to student teach, you MUST have been admitted to the Teacher Education program AND you must have successfully completed CUI 559 in the fall semester prior to your student teaching assignment. This sequence is very important and must be followed.

**7. Complete the Piedmont Alliance form and, if student teaching in Guilford County, complete the Guilford County Criminal Records Check form. These forms will be provided to you in CUI 559 the semester prior to student teaching.**

**8. Register for, take, and pass the Specialty Area of the Praxis II examination.**

Tests: Content Knowledge and Pedagogy

Deadline: Take the Praxis II near the end of your Senior Fall semester or during your student teaching semester – not earlier.

While the Teachers Academy no longer requires passing scores on the Praxis II examinations in Biology and Chemistry, the science and science education faculty strongly recommend that you take these

examinations.

### **9. Complete Teaching/Technology Portfolio Requirements**

The ISTE National Educational Technology Standards for Teachers (NETS-T) focus on preservice teacher education. The standards define the fundamental concepts, knowledge, skills, and attitudes for applying technology in educational settings. All candidates seeking secondary science licensure will develop a portfolio on TaskStream to demonstrate effective understanding and application of these educational technology standards.

### **10. Apply for NC teacher licensure in the Teacher's Academy (319 Curry).**

Deadline: Four to six weeks before degree is completed. Do not apply any earlier or mail anything to DPI in Raleigh.

### **Suggested Sequence of Professional Courses for Undergraduate Secondary Science Students:**

#### **Junior Year/Fall**

- ELC 381

#### **Junior Year/Spring**

- CUI 450                      • CUI 545 (must be taken this semester; this begins a mandatory 3-semester sequence)
- LIS 120

#### **Senior Year/Fall**

- CUI 559 (must be taken this semester)
- CUI 535

#### **Senior Year/Spring**

- CUI 465 (must be taken this semester)

**Information on Biology licensure can be found at:**

<http://www.uncg.edu/bio/pages/teacherlicensurereqs.pdf>

**Information on Chemistry licensure can be found at:**

<http://www.uncg.edu/che/UnderGrad/BALicensureStudyPlan.htm>

**Information on Physics licensure can be found at:**

## **SCHOOL OF EDUCATION & TEACHERS ACADEMY**

Conceptual Framework for Professional Education can be found at: [http://www.uncg.edu/soe/newsite/teachers\\_academy/](http://www.uncg.edu/soe/newsite/teachers_academy/)

Initial Licensure-only for Secondary Science (Biology, Chemistry & Physics) is now handled through the Teachers Academy as NCTEACH. Information can be found at:

<http://www.uncg.edu/soe/newsite/ncteach/index.html>

**CUI offers two graduates tracks in Science Education. CPT (Classroom Practice Track)** is offered for students with a degree in a science field who would like to teach or are already teaching as a lateral entry teacher. Completion of this degree results in a Masters Degree and eligibility for an “M” teaching license. Additional information can be found at:

[http://www.uncg.edu/cui/master\\_programs/science\\_edu\\_class.html](http://www.uncg.edu/cui/master_programs/science_edu_class.html).

**TLT (Teacher Leadership Track)** students are practicing teachers who already have initial licensure. Completion of the Masters degree includes eligibility for an “M” licensure. Additional information can be found at:

[http://www.uncg.edu/cui/master\\_programs/science\\_edu\\_teach.html](http://www.uncg.edu/cui/master_programs/science_edu_teach.html).