

## 244 Department of Science and Mathematics

### BACHELOR OF ARTS IN EDUCATION CHEMISTRY & PHYSICS (9-ADULT)

Candidates may wish to combine this specialization with another (5-9), (9-Adult), (5-Adult) or (PreK-Adult) specialization.

#### **General Education Requirements** **43 hours**

Candidates must take CHEM 101, MATH 102, and PHYS 201 as part of the General Education requirements.

#### **Content Specialization Courses** **54 hours**

##### **Total Hours in Chemistry** **23**

CHEM 101	General Chemistry I	
CHEM 102	General Chemistry II	4
CHEM 293	Techniques of Chemistry	1
CHEM 301	Organic Chemistry I	4
CHEM 302	Organic Chemistry II	4
CHEM 307	Inorganic Chemistry	4
CHEM 321	Analytical Chemistry I	4
CHEM 493	Senior Research Seminar	2

##### **Total Hours in Mathematics** **8**

MATH 102	College Algebra	
MATH 120	Precalculus	4
MATH 202	Calculus I	4

##### **Total Hours in Physics** **23**

PHYS 201	General Physics I	
PHYS 202	General Physics II	4
PHYS 304	Problems in Physics	3
PHYS 310	General Astronomy	4
PHYS 341	Nuclear Physics	3
PHYS 345	Introductory Chemical Physics	4
PHYS 350	Modern Physics	3
PHYS 493	Senior Research Seminar	2

**Professional Education 23 hours**

Must complete a Methods course for each specialization in which candidate seeks to gain licensure.

CSCI 267	Computer Skills for Education	2
EDUC 203	Foundations of Education	2
EDUC 205	Educational Psychology*	3
EDUC 310	Classroom Management and Teaching Strategies	2
EDUC 345	Teaching Science in Middle and Adolescent Education (5-Adult)	3
EDUC 412	Curriculum and Assessment: Content (5-Adult)	2
READ 317	Teaching Reading in Middle and Adolescent Education	3
SPED 220	Educating the Student with Exceptional and Cultural Diversities	3
SPED 334	Strategies for Students with Learning Disabilities and Behavior Disorders	3

**Student Internship 12 hours**

EDUC 493	Capstone Assessment	1
EDUC	Student Internship: Content	11

**Total minimum hours required for degree 132 hours**

\*Before enrolling in Education 205, a student must have attempted PRAXIS I or be exempt from this requirement due to ACT or SAT score.

**GATEWAY ASSESSMENT – ADMISSION TO TEACHER EDUCATION**

**CAPSTONE ASSESSMENT – EDUC 493**