

Post-Baccalaureate Certification Only: Grades 4-8 Education: Science

Curriculum

Course	Credits
General Education: PDE Content Requirements	
English and Literature Composition	6
ENG 101 English Composition I	
American or British Literature Course	
Mathematics (100 level or higher)	9
MAT 120 Elementary Topics I	
MAT 130 Elementary Topics II	
MAT 181 College Algebra	
Social Sciences	6
HIS 101 OR HIS 102	
ECO 102 Economics for Elementary Ed	1
GEO 102 Geographic Systems	1
POS 102 American Government for Elementary Ed	1
Health and Wellness	3
HSC 115 Current Health Issues	
Fine Arts	3
Program Requirements: PDE Professional Education Requirements	
Professional Education Courses	24
EDU 310 Tchg Multicultural Society	
EDU 333 Technology for Tchg and Learning	

Education

Course	Credits
EDU 350 Supporting ELL in the Classroom	
ESP 210 Special Ed. Found and Collaboration	
ESP 311 Assessing Positive Behavior Interv.	
ESP 412 Evidence Based Practices	
PSY 206 Adolescent Psychology	
* PSY 208 Educational Psychology	
Grades 4-8 Specialization Courses	33
ELM 200 Intro to Middle Level Education	
ELM 220 Instruction and Assessment in 4-8	
ELM 301 Reading Methods Assessment and Interv.	
ELM 302 Lang. Arts Methods Assessment and Interv.	
ELM 311 Math Methods, Assessment and Interv.	
ELM 321 Science Methods, Assessment and Interv.	
ELM 331 Social Studies Methods, Assessment and Interv.	
ELM 461 Student Teaching PreK-Grade 4 (see Teacher Handbook for requirements)	
Concentration Courses	27
BIO 103 Contemporary Issues Biology	
EAS 100 Intro to Earth Science	
ELM 360 Environ, Ecology and Nature - Study Ed	
PHS 120 Basic Phys. Science with Lab	
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Education

Course	Credits
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Field Experience Courses	6
ELM 411 Field Experience Grades 4-6	
ELM 412 Field Experience Grades 7-8	
Total	117

* Pre-requisite PSY 100 waived for this major.

** **Concentration Courses:** Please consult with your science education adviser before selecting from the following concentration courses:

- **GLG 150** Intro to Geology
- **EAS 240** Intro to Meteorology
- **EAS 163** Intro to Oceanography
- **PHS 145** Astronomy
- **GLG 210** Intro to Soils
- **BIO 120** General Zoology (4 credits)
- **BIO 125** General Botany (4 credits)
- **ENS 101** Intro to Environmental Science
- **CHE 103** Chemistry in Every Day World
- **PHS 137** Intro to Environment Chemistry
- **PHY 121** General Physics I

Program Notes:

- All courses required for certification with C- or lower must be repeated.
- All ELM and ESP courses require current clearances submitted before the first day of class.
- Pre-requisite for all ELM 300 level courses is ELM 200 and 220.
- All coursework must be completed before student teaching.
- Approved American/British literature courses: ENG 107, 127, 148, 150, 155, 203, 301, 302, 337, 338.
- Requirements
- PAPA qualifying scores at start of the program.
- GPA of 2.8 at start of the program.
- Appropriate Praxis II exams prior to student teaching.
- Admission to Teacher Education before registering for ESP 412.