

# Post-Baccalaureate Certification Only: Grades 4-8 Education: Mathematics

## Curriculum

Course	Credits
<b>General Education: PDE Content Requirements</b>	
<b>English and Literature Composition</b>	<b>6</b>
<b>ENG 101</b> English Composition I	
American or British Literature Course	
<b>Natural Sciences</b>	<b>9</b>
<b>BIO 103</b> Contemporary Issues Biology	
<b>EAS 100</b> OR <b>ENS 101</b>	
Physical Science Course	
<b>Social Sciences</b>	<b>6</b>
<b>HIS 101</b> OR <b>HIS 102</b>	
<b>ECO 102</b> Economics for Elementary Ed	1
<b>GEO 102</b> Geographic Systems	1
<b>POS 102</b> American Government for Elementary Ed	1
<b>Health and Wellness</b>	<b>3</b>
<b>HSC 115</b> Current Health Issues	
<b>Fine Arts</b>	<b>3</b>
<b>Program Requirements: PDE Professional Education Requirements</b>	
<b>Professional Education Courses</b>	<b>24</b>
<b>EDU 310</b> Tchg Multicultural Society	
<b>EDU 333</b> Technology for Tchg and Learning	

## Education

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Course	Credits
<b>EDU 350</b> Supporting ELL in the Classroom	
<b>ESP 210</b> Special Ed. Found and Collaboration	
<b>ESP 311</b> Assessing Positive Behavior Interv.	
<b>ESP 412</b> Evidence Based Practices	
<b>PSY 206</b> Adolescent Psychology	
<b>*PSY 208</b> Educational Psychology	
<b>Grades 4-8 Specialization Courses</b>	<b>30</b>
<b>ELM 200</b> Intro to Middle Level Education	
<b>ELM 220</b> Instruction and Assessment in 4-8	
<b>ELM 301</b> Reading Methods Assessment and Interv.	
<b>ELM 302</b> Lang. Arts Methods Assessment and Interv.	
<b>ELM 311</b> Math Methods, Assessment and Interv.	
<b>ELM 321</b> Science Methods, Assessment and Interv.	
<b>ELM 331</b> Social Studies Methods, Assessment and Interv.	
<b>ELM 461</b> Student Teaching PreK-Grade 4 (see Teacher Handbook for requirements)	
<b>Concentration Courses</b>	<b>24</b>
<b>MAT 120</b> Elementary Topics in Math I	
<b>MAT 130</b> Elementary Topics in Math II	
<b>MAT 181</b> College Algebra	
<b>MAT 191</b> College Trigonometry	
<b>MAT 272</b> Discrete Mathematics	
<b>MAT 303</b> Geometry	
<b>MAT 341</b> Linear Algebra	
<b>Field Experience Courses</b>	<b>6</b>
<b>ELM 411</b> Field Experience Grades 4-6	

## Education

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Course	Credits
ELM 412 Field Experience Grades 7-8	
<b>Total</b>	<b>111</b>

\* Pre-requisite PSY 100 waived for this major.

### 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.