

ESE 400: Introduction to Special Education	3	WAC							
EUT 415: Project-based Instruction in Mathematics	3								
EUT 417: Project-based Instruction in Science	3								
*EST 399: CSUteach STEM Apprentice Teaching I	1								
CULMINATING EXPERIENCE									
*EST 499: CSUteach STEM Apprentice Teaching II	6								
[Prereq: EUT 415 & EST 399; 75% Major Field courses; 2.75 Cum GPA; 2.50 Major Field GPA; 3.0 Prof. GPA]									
CONTENT REQUIREMENTS <input type="checkbox"/>									
Physics Requirements <input type="checkbox"/>									
PHY 241/243: University Physics I	5	NS							
PHY 242/244: University Physics II	5	NS							
PHY 330: Introduction to Modern Physics	3								
PHY 470: Environmental Physics	3								
PHY 474: Thermal Physics (capstone)	3								
PHY 498 Capstone Senior Project	1								
PHY Elective (300/400)	3								
PHY Elective (300/400)	3								
PHY Elective (300/400)	3								
PHY Elective (300/400)	3								
Mathematics Requirements									
MTH 181: Calculus	4	M/QL							
MTH 182: Calculus II	4	M/QL							
MTH 220: Discrete Mathematics	3								
MTH 281: Multivariable Calculus	4								
MTH 288: Linear Algebra	3								
MTH 301: Introduction to Number Theory	3								
STA 323: Statistical Methods	3								
MTH 333: Geometry	3								
MTH 358: Abstract Algebra	3								

STA 424: Probability and Mathematical Statistics	3								
Science Sequence									
BIO 380/381 Bio Content Mid Sch Teachers	4								
CHM 380 Prin of Chem Mid Sch Teachers	3								
Additional Requirements									
EVS 206 Intro to Enviro Science	3	NS							
CIS 151 Invitation to Computing	3								
CIS 260 Intro to Programming	3								

*Firm Application Deadlines for Apprentice Teaching I & II are February 15 (Fall Semester) and September 15 (Spring)

*This program enables a candidate to obtain two separate licenses in the State of Ohio. Students are required to take both methods courses (EUT 415 and 417) and candidates will have a split experience (physics and mathematics) but will complete one edTPA. □

Summary of Credits			
Professional Education:	39		
Other General Education Courses (not all listed):	16		
Major Field Requirement:	89-90		
Total	144-145		
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Evaluator's Signature	Date		
<p>The following Pearson OAE exams must be taken prior to student teaching and passed before you can apply for the Integrated Mathematics and single field Physics licenses. You must designate CSU as your education preparation institution each time you register for the OAE as CSU will need to have a copy on file to approve your on-line license application. Go to http://www.oh.nesinc.com for more information about the OAE and to register for the exams. □</p>			
Test	Length	Passing Score	Code
Assessment of Professional Knowledge: Adolescent to Young Adult* □	3 hrs	220	003
Integrated Mathematics □	4 hrs 15 min	220	027
Physics □	4 hrs 15 min	220	035
*A score of 37 on the EdTPA can serve as a substitute for the APK test requirement (ask your advisor for more information)			
Candidates seeking licensure are required to satisfy additional portfolio requirements (See https://www.csuohio.edu/cehs/eportfolio/hot-topics-taskstream-resources).			
STUDENT FOLLOW UP NOTES			



College of Education
& Human Services



Cleveland State
University
engaged learning