

Program Map: BSED in Secondary Education (6-12)
Mathematics Education (120-123 credits)
College of Education

Name:
Start Date:

SID:
Catalog Date:

Advisor:
Expected Graduation Date:

Freshman	Fall Courses			Spring Courses			Notes
	Course	Name	Hours	Course	Name	Hours	
	Area A ENGL 1101	Composition I Pre-requisite: None	3	Area A ENGL 1102	Composition II Pre-requisite: ENGL 1101	3	
Area A MATH 1111	College Algebra or test score Pre-requisite: None	3	MATH 1113	Pre-Calculus Pre-requisite: MATH 1111	3		
Area B HUMN 1201	Critical Thinking & Communication Pre-requisite: None	3	Area B AFRS 1501	Survey African American Experience Pre-requisite: None	2		
Area E POLS 1101	American Government Pre-requisite: None	3	Area E PSYC 2103	Human Growth and Development Pre-requisite: None	3		
EDUC 2000	Technology in Teaching & Learning Pre-requisite: None	3	Area F EDUC 2100	Reading and Writing Strategies Pre-requisite: None	3		
EDUC 1103	FYE for Future Educators Pre-requisite: None	2	Area F EDUC 2110	Investigating Critical & Contemporary Issues in Education Pre-requisite: None	3		
Fall Milestones			Total	Spring Milestones			Total
			17				17

Sophomore	Fall Courses			Spring Courses			Notes
	Course	Name	Hours	Course	Name	Hours	
	Area C	Elective Pre-requisite: None	3	Area D (4-hr. course)	Natural Sciences, Math, & Technology Pre-requisite: Varies	4	
Area D (4-hr. course)	Natural Sciences, Math, & Technology Pre-requisite: None	4	Area E HIST 2111 or HIST 2112	Survey US History to Post Civil or Survey US History Post Civ-Present Pre-requisite: None	4		
Area E	Elective Pre-requisite: None	3	MATH 2111	Calculus II Pre-requisite: Math 2101	3		
MATH 2101	Calculus I Pre-requisite: MATH 1113	4	MAED 2201	Mathematics Literacy for Diverse Learners Pre-requisite: None	3		
Area F EDUC 2120	Exploring Socio-Cultural Influences in Teaching & Learning Pre-requisite: None	3	Area F EDUC 2130	Exploring Teaching and Learning Pre-requisite: None	3		
Fall Milestones			Total	Spring Milestones			Total
Take GACE Program Admission Exams			17	Retake GACE Program Admission Exams, if needed.			17

Junior	Fall Courses			Spring Courses			Notes
	Course	Name	Hours	Course	Name	Hours	
	Area D CISM/CSCI 1130	Computer Applications Pre-requisite: None	3	Area C	Elective Pre-requisite: None	3	
MATH 2121	Calculus III Pre-requisite: MATH 2111	4	MATH 3211	Foundations of Higher Mathematics Pre-requisite: MATH 2121	3		
MATH 2301	Intro to Discrete Mathematics Pre-requisite: MATH 2101	3	MATH 3401	Modern Geometry Pre-requisite: MATH 2121	3		
MATH 3201	Probability and Statistics I Pre-requisite: MATH 2111	3	MAED 3002	Connections in Secondary Mathematics Pre-requisite: Admission to TEP	3		
EDUC 3030	Teaching Exceptional Learners Pre-requisite: Admission to TEP	3	EDUC 3200	Curriculum & Assessment Pre-requisite: Admission to TEP	3		
Fall Milestones			Total	Spring Milestones			Total
Take GA Educator Ethics: Program Entry Exam (350)			16	Take GACE Content Exams Test I [022] and Test II [023] or Combined Test I and II [522]			15

Senior	Fall Courses			Spring Courses			Notes
	Course	Name	Hours	Course	Name	Hours	
	MATH 3101	Linear Algebra Pre-requisite: MATH 2111	3	EDUC 4475	Student Teaching / Clinical Practice Pre-requisite: Admission to TEP GaPSC Pre-Service Certificate Required	10	
EDUC 3040	Classroom Management & Ethics Pre-requisite: None	3	EDUC 4476	Student Teaching Seminar Co-requisite: EDUC 4475	2		
MAED 4416	Teaching & Research in Secondary Mathematics Education Pre-requisite: Admission to TEP	3					
MAED 4417	Practicum in Teaching Secondary Mathematics Education Co-requisite: MAED 4416 Pre-requisite: Admission to COE	3					
Fall Milestones			Total	Spring Milestones			Total
Take Georgia Educator Ethics: Program Exit Exam (360)			12	Submit edTPA			12

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Core Curriculum (Programmed Preferred Options in Bold)

Area B – Institutional Options 5 hrs.

AFRS 1501 Survey of African-American Experience 2 hrs.

HUMN 1201 Critical Thinking & Communication 3 hrs.

Area C – Humanities/Fine Arts, and Ethics 6 hrs.

1. Select one of the following:

ENGL 2111 World Literature I 3 hrs.

ENGL 2112 World Literature II 3 hrs.

ENGL 2121 British Literature I 3 hrs.

ENGL 2122 British Literature II 3 hrs.

ENGL 2131 American Literature I 3 hrs.

ENGL 2132 American Literature II 3 hrs.

ENGL 2222 African American Literature 3 hrs.

PHIL 2010 Introduction to Philosophy 3 hrs.

PHIL 2030 Introduction to Ethics 3 hrs.

2. Select one of the following:

ARTS 1101 Introduction to Visual Art 3 hrs.

DNCE 2010 Dance Appreciation 3 hrs.

ENGL 2521 Introduction to Film 3 hrs.

HUMN 2011 Humanities 3 hrs.

MUSC 1101 Introduction to Music 3 hrs.

THEA 2101 Introduction to Theatre 3 hrs.

Area D – Natural Sciences, Math & Technology 11 hrs.

1. Select one of the following:

BIOL 1107 Principles of Biology I 3 hrs.

BIOL 1108 Principles of Biology II 3 hrs.

CHEM 1211 Principles of Chemistry I 3 hrs.

CHEM 1212 Principles of Chemistry II 3 hrs.

CISM 1130 Computer Applications 3 hrs. or

CSCI 1130 Computer Applications 3 hrs.

CSCI 1301 Computer Science I 3 hrs.

ENVS 1140 Environmental Issues 3 hrs.

2. Select two of the following lab sciences:

BIOL 1107/1107L Principles of Biology I 4 hrs.

BIOL 1108/1108L Principles of Biology II 4 hrs.

CHEM 1211/1211L Principles of Chemistry 4 hrs.

CHEM 1212/1212L Principles of Chemistry 4 hrs.

PHYS 1111K Introductory Physics I 4 hrs.

PHYS 1112K Introductory Physics II 4 hrs.

PHYS 2211K Principles of Physics I 4 hrs.

PHYS 2212K Principles of Physics II 4 hrs.

Area E – Social Science 12 hrs.

POLS 1101 American Government 3 hrs.

1. Select one of the following:

HIST 2111 U.S. History to the Post-Civil War Period 3 hrs.

HIST 2112 U.S. History from the Post-Civil War to Pre 3 hrs.

2. Select two of the following:

AFRS 2000 Introduction to Africana Studies 3 hrs.

ANTH 1101 Introduction to Anthropology 3 hrs.

ECON 2105 Principles of Macro-Economics 3 hrs.

GEOG 1101 Introduction to Human Geography 3 hrs.

HIST 1111 World Hist to Early Modern Times 3 hrs.

HIST 1112 World History Early Modern Times to Pres 3 hrs.

POLS 2401 Global Issues 3 hrs.

PSYC 1101 Intro to General Psychology 3 hrs.

PSYC 2103 Human Growth & Development 3 hrs.

SOCI 1101 Introduction to Sociology 3 hrs.

SOCI 1160 Social Problems 3 hrs.

Distinctive Courses in this Major

EDUC 3030 Teaching Exceptional Learners 3 credits

This course is designed to prepare candidates to work collaboratively with families and school personnel to have a positive impact on the educational, social and behavioral development of all students, including those with a full range of disabilities and in a diverse society. The course focuses on knowledge of legislative mandates for serving exceptional students, characteristics of exceptionality, best practice in facilitating teaching and learning, and accountability through assessment of outcomes. **There are 60 required field hours in this course. This course cannot be passed without verification of completion of field hours. Admission to TEP required.**

EDUC 3200 Curriculum and Assessment 3 credits

This course will engage students in the investigation of curriculum, instruction, and assessment development with an emphasis on student learning outcomes. This course will review assessment methods relative to constructing, evaluating and interpreting tests with an understanding on reliability, valid and fair measurements; descriptive and inferential statistics, and state competency testing. Students will cover knowledge management and methods for integrating technology into assessment practice. **There are 60 required field hours in this course. This course cannot be passed without verification of completion of field hours. Admission to TEP required.**

MAED 4416 Teaching & Research in Secondary Mathematics Education 3 credits

This course is an examination and application of curricular issues, learning theories, instructional materials, and assessment procedures associated with teaching secondary mathematics in the multicultural and diverse classroom of today. The course emphasizes those practices recommended by research in math education and NCTM Principles and Standards. Candidates examine aspects of math classroom practice from various perspectives. **The eportfolio is required. Admission to TEP required. Taken with MAED 4417.**

MAED 4417 Practicum in Teaching Secondary Mathematics Education 3 credits

The course will examine the strategies that can be used to create an effective 21st century learning environment. The goal is to equip the students with certain core competencies such as collaboration, digital literacy, critical thinking, and problem solving. The course will also examine strategies and skills to engage creatively mathematics students and master teaching and assessment techniques appropriate for the implementation of the current math state standards. **There are 120 required field hours in this course. This course cannot be passed without verification of completion of field hours. Admission to TEP required. Taken with MAED 4416.**

EDUC 4475 Student Teaching/Clinical Practice 10 credits

Student teaching is a **630-hour field-based capstone requirement** for teacher certification and BSED candidates. Requirements for entry, grade level and/or content placement, and teaching experiences at the assigned school adhere to the most recent rules for teacher certification mandated by the GaPSC. **Taken with EDCU 4476.**

EDUC 4476 Student Teaching Seminar 2 credits

This seminar, taken with EDUC 4475 Student Teaching/Clinical Practice, provides students with structured support to meet final teacher preparation program requirements mandated by the GaPSC for teacher certification. **Completion of GACE assessments and submission of the teaching portfolio to edTPA are required to complete this course. Taken with EDUC 4475.**