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

#### Freshman

<table>
<thead>
<tr>
<th>Course</th>
<th>Name</th>
<th>Hours</th>
<th>Course</th>
<th>Name</th>
<th>Hours</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area A</td>
<td>ENGL 1101</td>
<td>3</td>
<td>Area A</td>
<td>ENGL 1102</td>
<td>3</td>
<td>Prepare for GACE Program Admission Exams **</td>
</tr>
<tr>
<td>Area A</td>
<td>MATH 1111</td>
<td>3</td>
<td>MATH 1111</td>
<td>Pre-Calculus</td>
<td>3</td>
<td>** You are exempt from GACE Program Admission Exams by having a combination ACT score of 43 or a combination SAT score of 1000.</td>
</tr>
<tr>
<td>Area B</td>
<td>HUMN 1201</td>
<td>3</td>
<td>Area B</td>
<td>AFRS 1501</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Area E</td>
<td>POLS 1101</td>
<td>3</td>
<td>Area E</td>
<td>PSYC 2103</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>EDUC 2000</td>
<td>Technology in Teaching &amp; Learning</td>
<td>3</td>
<td>Area F</td>
<td>EDUC 2100</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>EDUC 1103</td>
<td>FYE for Future Educators</td>
<td>2</td>
<td>Area F</td>
<td>EDUC 2110</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Fall Milestones:**

- Total: 17

**Spring Milestones:**

- Total: 17

- Fall Courses:
  - Take GACE Program Admission Exams
  - Retake GACE Program Admission Exams, if needed.

- Spring Milestones:
  - Total: 17

#### Sophomore

<table>
<thead>
<tr>
<th>Course</th>
<th>Name</th>
<th>Hours</th>
<th>Course</th>
<th>Name</th>
<th>Hours</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area C</td>
<td>Elective</td>
<td>3</td>
<td>Area D</td>
<td>Natural Sciences, Math, &amp; Technology</td>
<td>4</td>
<td>Secure Tort Liability Insurance</td>
</tr>
<tr>
<td>Area D</td>
<td>Natural Sciences, Math, &amp; Technology</td>
<td>4</td>
<td>Area E</td>
<td>MATH 2111</td>
<td>3</td>
<td>Secure Assessment Account</td>
</tr>
<tr>
<td>MATH 2101</td>
<td>Calculus I</td>
<td>4</td>
<td>MAED 2201</td>
<td>Mathematics Literacy for Diverse Learners</td>
<td>3</td>
<td>Apply for Admission to the Teacher Education Program (TEP)</td>
</tr>
<tr>
<td>Area F</td>
<td>EDUC 2120</td>
<td>3</td>
<td>Area F</td>
<td>Exploring Teaching and Learning</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Fall Milestones:**

- Total: 17

**Spring Milestones:**

- Total: 17

- Fall Courses:
  - Take GACE Program Admission Exams
  - Apply for Student Teaching/ Clinical Practice Placement

- Spring Milestones:
  - Total: 16

- Take GACE Content Exams Test I [022] and Test II [023] or Combined Test I and II [522]

#### Junior

<table>
<thead>
<tr>
<th>Course</th>
<th>Name</th>
<th>Hours</th>
<th>Course</th>
<th>Name</th>
<th>Hours</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area D</td>
<td>CISM/CSCI 130</td>
<td>3</td>
<td>Area C</td>
<td>Elective</td>
<td>3</td>
<td>Secure Tort Liability Insurance</td>
</tr>
<tr>
<td>MATH 2121</td>
<td>Calculus III</td>
<td>4</td>
<td>MATH 3211</td>
<td>Foundations of Higher Mathematics</td>
<td>3</td>
<td>Apply for Graduation</td>
</tr>
<tr>
<td>MATH 2301</td>
<td>Intro to Discrete Mathematics</td>
<td>3</td>
<td>MATH 3401</td>
<td>Modern Geometry</td>
<td>3</td>
<td>Complete Exit Counseling (Financial Aid)</td>
</tr>
<tr>
<td>MATH 3201</td>
<td>Probability and Statistics I</td>
<td>3</td>
<td>MAED 3002</td>
<td>Connections in Secondary Mathematics</td>
<td>3</td>
<td>Complete Evaluation of Cooperating Teacher Survey</td>
</tr>
<tr>
<td>EDUC 3030</td>
<td>Teaching Exceptional Learners</td>
<td>3</td>
<td>EDUC 3200</td>
<td>Curriculum &amp; Assessment</td>
<td>3</td>
<td>Complete Program Graduate Survey</td>
</tr>
</tbody>
</table>

**Fall Milestones:**

- Total: 10

**Spring Milestones:**

- Total: 10

- Fall Courses:
  - Take GA Educator Ethics: Program Entry Exam

- Spring Milestones:
  - Total: 10

- Fall Milestones:
  - Total: 16

- Spring Milestones:
  - Total: 16

- Fall Courses:
  - Take Georgia Educator Ethics: Program Exit Exam (360)

- Spring Milestones:
  - Total: 12

- Fall Milestones:
  - Total: 12

**Notes:**

- Pre-requisite:
- None
- (4-hr. course)
- req (requisite)
Program Map: BSED in Secondary Education (6-12)
Mathematics Education (120-123 credits)
College of Education

Core Curriculum (Programmed Preferred Options in Bold)

Area B – Institutional Options 5 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.  
   DANCE 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.  
   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 I 4 hrs.  
   CHEM 1212/1212L Principles of Chemistry II 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 NCTN 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 EDUC 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.

Updated 05.24.19