



# MATHEMATICS EDUCATION, BACHELOR OF SCIENCE EDUCATION - SECONDARY (6-12)

**Program Code:** S500B

**Career Pathway:** Education

**Location(s):** Courses for this program are offered at all Broward College locations. (<https://www.broward.edu/about/locations/>) Please consult the course schedule for specific semester locations.

**Program Entrance Requirements:** Admission to Broward College does not constitute admission to the Teacher Education Program (TEP). Students must meet all Teacher Education Program admission requirements prior to being accepted into the program.

Requirements for admission to the Teacher Education Program include the following:

- Completion of an Associate of Arts degree from a regionally-accredited institution or at least 60 semester credit hours of post-secondary education from a regionally-accredited college or university with 36 credit hours of general education coursework.
- A cumulative grade point average of 2.5 on a 4.0 scale for the general education component of undergraduate studies.
- A passing score on any one of the four (English, Essay, Mathematics, Reading) subtests of the General Knowledge Exam.
  - Students admitted to the program will be required to take and pass the remaining three sections of the General Knowledge Exam by the completion of their 15th credit.
  - To register for the General Knowledge Exam visit: [www.fl.nesinc.com](http://www.fl.nesinc.com) (<http://www.fl.nesinc.com>).
- Applicants must be in good academic standing at the last institution they attended.
- Broward College must have on file an official, complete transcript from each postsecondary institution attended, cumulatively indicating completion of 60 or more transferable credits by the applicant's entry term. Prior Broward College students do not need to submit Broward College transcripts, only transcripts from any other institutions attended.
- Completion of all general education requirements and lower division state mandated common prerequisites, including the following three common education prerequisites, in which students must have earned a grade of "C" or better:
  - EDF1005 INTRODUCTION TO THE TEACHING PROFESSION
  - EDF2085 INTRO TO DIVERSITY & EXCEPTIONALITIES FOR EDU
  - EME2040 INTRODUCTION TO EDUCATIONAL TECHNOLOGY
- Submission of a letter of recommendation from one person who knows the applicant personally, educationally, and/or professionally.
- Approval from the Teacher Education Program Admission Committee

**Program Description:** The Bachelor of Science in Mathematics Education has two tracks: A Middle Grades Mathematics Education track designed to qualify its graduates to teach Mathematics in grades 5-9 and Secondary Mathematics Education track designed to qualify its graduates to teach Mathematics in grades 6-12. Please note that admission to Broward College does not constitute admission to the Teacher Education programs; a supplemental application is also required for the Teacher Education Program. Students must meet all Teacher Education Program admission requirements before acceptance into the program. In addition to the required coursework, students must pass the Florida Teacher Certification Exams as a requirement for program completion.

The Bachelor of Science in Education uses a 2+2 model requiring the completion of an Associate of Arts Degree, or at least 60 semester credit hours of postsecondary education from a regionally accredited college or university for entry into the program; these must include 36 hours of General Education Core requirements. For more information call 954-201-2500.

## B.S. Mathematics Education Components

Component	Credits
Lower Division Coursework in semester credit hours	60
Associate Degree Program of Study Program Electives <sup>1</sup>	24
<b>General Education Core Requirements Credits:</b> Communication (9), Math (6) Humanities (6) Social Behavioral Science (6) Science (6) Science Lab (1), Wellness (2)	36
<b>Digital Literacy Requirement:</b> Students are required to have passed the Computer Competency exam <sup>2</sup>	
<b>Foreign Language Requirement:</b> Students are required to have two-years of sequential foreign language studies from high school or eight semester credit hours from college prior to graduation of Bachelor of Science degree.	
Upper Division Coursework in semester credit hours	60
<b>Total</b>	<b>120</b>

2 Mathematics Education, Bachelor of Science Education - Secondary (6-12)

<sup>1</sup> To include EDF1005 INTRODUCTION TO THE TEACHING PROFESSION

<sup>2</sup> Or completed CGS1060C COMPUTER AND INTERNET LITERACY or equivalent course.

**Note:** Students must include the following math courses within their lower division educational plan:

Course	Title	Credits
EDF1005	INTRODUCTION TO THE TEACHING PROFESSION	3.00
MAC1105 & 1105C	COLLEGE ALGEBRA and COREQUISITE COLLEGE ALGEBRA	8.00
MAC1140	PRE CALCULUS ALGEBRA <sup>1</sup>	3.00
MAC1114	TRIGONOMETRY <sup>1</sup>	3.00
STA2023	STATISTICS	3.00
MAC2311	CALCULUS AND ANALYTICAL GEOMETRY I	5.00

<sup>1</sup> MAC1147 PRECALCULUS ALGEBRA AND TRIGONOMETRY is equivalent to MAC1140 PRE CALCULUS ALGEBRA and MAC1114 TRIGONOMETRY combined and will be accepted in its place.

Additionally, students in the Secondary Mathematics (6-12) Education Track must also include MAC2312 CALCULUS AND ANALYTICAL GEOMETRY II .

Course	Title	Credits
EDF3280	INSTRUCTIONAL STRATEGIES <sup>1</sup>	3.00
EEX3011	INTRODUCTION TO EXCEPTIONAL STUDENT EDUCATION	3.00
MAD2104	DISCRETE MATHEMATICS	3.00
RED3342	FOUND OF RESEARCH PRAC. IN READ ED & APP. OF INST. <sup>2</sup>	3.00
TSL3080	ESOL ISSUES AND STRATEGIES I <sup>2</sup>	3.00
EDP4004	PRINCIPLES OF EDUCATIONAL PSYCHOLOGY	3.00
MAS2103	LINEAR ALGEBRA	3.00
MAE4330	METHODS OF TEACHING MATH IN SECONDARY SCHOOL	3.00
EDG4410	CLASSROOM MANAGEMENT	3.00
EME3410	ENHANCING MATHEMATICS AND SCIENCE EDUCATION WITH TECHNOLOGY APPLICATIONS	3.00
MHF4404	HISTORY OF MATHEMATICS	3.00
MTG3212	MODERN GEOMETRY	3.00
EDF4430	EDUCATIONAL TESTS AND MEASUREMENTS	3.00
MAS3301	ABSTRACT ALGEBRA WITH INTRODUCTORY NUMBER THEORY	3.00
MAE3143	INTERACTIVE MIDDLE SCHOOL MATHEMATICS PROJECTS <sup>3</sup>	3.00
MAE3941	TEACHING MIDDLE AND SECONDARY SCHOOL MATHEMATICS <sup>3</sup>	3.00
MAE4944	STUDENT TEACHING IN MATHEMATICS	12.00

**Total Credits** **60**

<sup>1</sup> EDF3280 INSTRUCTIONAL STRATEGIES is a required first semester course.

<sup>2</sup> RED3342 FOUND OF RESEARCH PRAC. IN READ ED & APP. OF INST. and TSL3080 ESOL ISSUES AND STRATEGIES I are co-requisite courses.

<sup>3</sup> MAE3143 INTERACTIVE MIDDLE SCHOOL MATHEMATICS PROJECTS and MAE3941 TEACHING MIDDLE AND SECONDARY SCHOOL MATHEMATICS are co-requisite courses.

Students must satisfy the Digital Literacy requirement by testing out, completing a Credit for Prior Learning portfolio, or passing CGS1060C COMPUTER AND INTERNET LITERACY.

In accordance with Florida Statute and Florida Administrative Code, students may need to satisfy the Civic Literacy Graduation Requirement. Visit the Civic Literacy Graduation Requirement page at [broward.edu/civic-literacy](http://broward.edu/civic-literacy) (<https://students.broward.edu/resources/civic-literacy/>).

**Students are strongly encouraged to meet with an advisor (<https://students.broward.edu/resources/advising/>) to create a personalized educational plan.**

## PROGRAM HIGHLIGHTS

View on YouTube (<https://www.youtube.com/watch?v=LfqvYhxkucM>)

## CREDIT FOR PRIOR LEARNING

Accelerate your path to completion with these options:

- Credit by exam
- Earned industry certifications
- Prior Learning Assessment
- And much more...

## RELATED INDUSTRY CERTIFICATIONS

Upon completing this program, graduates will be eligible to sit for the following industry certifications/licenses: N/A

## GET AN INTERNSHIP

After completing your first year of coursework make sure to visit Employment Solutions (<https://broward.edu/career/>) for internship opportunities and helpful tools like virtual job shadow, to help take your career to the next level!

- Get an Internship (<http://broward.edu/studentresources/career/Pages/Find-a-job-or-internship.aspx>)
- Virtual Job Shadow Tool (<http://www.broward.edu/studentresources/career/Pages/default.aspx>)

## MEDIAN WAGE AND JOB GROWTH OUTLOOK

Broward College has Career Coach (<https://www.broward.edu/careercoach/>)! It is designed to help you find a good career by providing the most current local data on wages, employment, job postings, and associated education and training.

## FUND YOUR EDUCATION

This program is Financial Aid (<https://www.broward.edu/admissions/financial-aid/>) eligible. Scholarships (<https://www.broward.edu/admissions/financial-aid/scholarships/>) may be available.

## PROGRAM LEARNING OUTCOMES

Graduates from this program will:

- Apply the principles of mathematics education to plan, design, delivery, and assess inquiry-based instruction.
- Demonstrate the ability to work with students in the area of mathematics and apply appropriate individualized instruction and other competencies based on the state standards.
- Apply professional teacher competencies set forth by FEAPs and Marzano.