Mathematics teachers guide middle and/or high school students in the exploration of mathematical concepts, problems, equations and sometimes technology. Math teachers plan courses, instructing students, interact with parents and administrators, and keep up with developments in the field.


**Required Skills:**
- Teaching
- Knowledge of Mathematics
- Writing and Presenting
- Decision Making
- Organization
- Flexibility
- Problem Solving

**Possible Employers:**
- School System
- Insurance Company
- Consulting Firm
- Research Corporation
- Computer Software Company
- Library
- College or University

**PROFESSIONAL ORGANIZATIONS:**
- National Council of Teachers of Mathematics [www.nctm.org](http://www.nctm.org)
- The National Association of Mathematicians [www.nam-math.org](http://www.nam-math.org)
- American Mathematical Society [www.ams.org](http://www.ams.org)
- Pennsylvania Association of Mathematics Teacher Educators [www.pamte.org](http://www.pamte.org)

**FIND OUT MORE ABOUT CAREERS IN MATHEMATICS EDUCATION AT:**
- ProTeacher [www.ProTeacher.com](http://www.ProTeacher.com)
- Pitt-Bradford Teacher Education [websites.pdesas.org/jar1/default.aspx](http://websites.pdesas.org/jar1/default.aspx)
- Occupational Outlook [www.bls.gov/oco/ocos318.htm](http://www.bls.gov/oco/ocos318.htm)
- Career Services [www.upb.pitt.edu/career.aspx](http://www.upb.pitt.edu/career.aspx)
Mathematics Education (BS) – Curriculum Guide

**GENERAL EDUCATION REQUIREMENTS**

**COMPETENCIES**

*(Minimum grade of C- required in all competencies)*
- FS 0102 Freshman Seminar
  *(if transferring in fewer than 18 credits)*

**Writing**
- ENG 0101 English Composition I
- ENG 0102 English Composition II

**Mathematics**
- MATH 0098 College Algebra II or Higher *(see major)*

**THE HUMAN EXPERIENCE**

- Students are required to complete two courses designated as “Global”

**ARTS & LETTERS** *(ONE course MUST be literature; ONE course MUST be a creative, fine or performing Arts course)*
- Literature
- Arts
- Literature, Arts, Language

**BEHAVIORAL, ECONOMIC, & POLITICAL SCIENCES** *(Two different categories must be represented)*
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**HISTORY, CULTURES, & PHILOSOPHICAL INQUIRY** *(ONE course MUST be History, and ONE course must be Cultures or Philosophical Inquiry)*
- HIST
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**PHYSICAL, LIFE, & COMPUTATIONAL SCIENCES** *(ONE course must be a Physical Science, ONE must be a Life Science and ONE must include a lab)*
- Physical Science
- Life Science
- MATH *(see major)*
- Lab

**PHYSICAL EDUCATION**
- PEDC

**REQUIRED MAJOR COURSES**

- MATH 0135 Discrete Math
- MATH 0140 Calculus I
- MATH 0150 Calculus II
- MATH 0201 Calculus III
- MATH 0202 Ordinary Differential Equations
- MATH 0206 Linear Algebra
- MATH 0207 Geometry
- MATH 1303 Math Modeling
- MATH 1309 Probability & Statistic
- MATH 1312 Abstract Algebra & Number Theory
- MATH 1318 Introduction to Analysis
- MATH 1452 Capstone/Mathematics
- EDUC 0204 Introduction to Education
- EDUC 0215 English Language Learners
- EDUC 0220 Special Education Law
- EDUC 0235 Instructional Design
- EDUC 0275 Adolescent Literature GE
- EDUC 1301 Instructional Technology
- EDUC 1307 Secondary Methods
- EDUC 1325 Development of Exceptional Children
- EDUC 1330 Educating Exceptional Children
- EDUC 1334 Literacies Across the Middle & Sec. Curriculum
- EDUC 1345 Educational Theories and Practices
- EDUC 1350 Educational Psychology & Measurement
- EDUC 1481 Student Teaching

**CREDITS**

- **136-137 CREDITS**

ALL COURSES IN THE MAJOR MUST BE COMPLETED WITH A C- OR HIGHER AND A 3.0 GPA MUST BE MAINTAINED.

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**According to your Degree Progress Report in MY.PITT.EDU upon successful completion of the current term:**

- You will have earned _______ credit hours
- You need _______ for 133-134 credit hours required for graduation.
- You will have earned _______ credit hours of Upper Level course work.
- You need _______ for the 30 credit hours required for graduation.

**NOTE:** This guide is unofficial. Completing the requirements on this sheet does NOT guarantee degree completion. Official degree completion information can be found in MY.PITT.EDU. Contact your Faculty Advisor and/or the Registrar’s Office with questions or concerns.