

Middle Grades Mathematics

The Middle Grades Mathematics major prepares students to educate and inspire learners in grades 5-9 in foundational and advanced math concepts. The program emphasizes pedagogy, curriculum development, classroom management, and subject mastery to meet diverse learning needs. Graduates are equipped to foster critical thinking and problem-solving skills while adhering to state and national education standards. Graduates typically work in public and private middle schools, charter schools, and educational support organizations. Some may pursue roles in curriculum development, tutoring services, or educational technology.

Job Title Examples:

- Middle School Math Teacher
- Math Intervention Specialist
- Tutor (K-12 or Middle School Focus)
- Substitute Teacher
- Curriculum Assistant
- Instructional Aide
- Learning Support Specialist
- Educational Program Assistant
- STEM Outreach Coordinator
- Online Math Educator

Hard and Soft Skills Needed:

Hard Skills:

1. Mathematics Content Knowledge
2. Lesson Planning
3. Classroom Technology Integration
4. Curriculum Design
5. Assessment Development

Soft Skills:

1. Communication
2. Patience
3. Adaptability
4. Classroom Management
5. Collaboration

Further Education/Training Required and/or Suggested:**To Enter the Field:**

A state teaching license is typically required, which includes passing exams such as Praxis and completing a teacher preparation program.

To Advance:

Earning a master's degree in education, mathematics, or leadership and obtaining National Board Certification can lead to roles in administration or specialized teaching.

Summary:

Licensure is essential for entry-level positions, while advanced degrees and certifications support career growth and leadership opportunities.

Professional or Student Associations:

- American Mathematical Society
- Pi Mu Epsilon
- Society for Industrial and Applied Mathematics