

Middle School Science

The Middle School Science major equips students to inspire and educate learners in grades 5-9 in scientific principles and critical thinking. The program focuses on pedagogy, curriculum design, classroom management, and mastery of core scientific disciplines such as biology, chemistry, and physics. Graduates are prepared to create engaging, hands-on learning experiences aligned with state and national science education standards. Graduates typically work in public and private middle schools, charter schools, and STEM-focused educational programs. Other opportunities include tutoring services, curriculum development, and science outreach or advocacy organizations.

Job Title Examples:

- Middle School Science Teacher
- Science Intervention Specialist
- Substitute Teacher
- STEM Program Coordinator
- Instructional Aide
- Curriculum Assistant
- Laboratory Classroom Assistant
- Science Tutor
- Online Science Educator
- Environmental Education Assistant

Hard and Soft Skills Needed:

Hard Skills:

1. Science Content Knowledge
2. Lesson Planning
3. Laboratory Management
4. Curriculum Development
5. Data Analysis and Assessment

Soft Skills:

1. Communication
2. Patience
3. Problem-Solving
4. Classroom Management
5. Collaboration

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

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

To Advance:

Pursuing a master's degree in education or science, and obtaining National Board Certification can lead to career advancement and specialized roles.

Summary:

Licensure is necessary for entry-level roles, while advanced education and certifications support career growth and leadership positions.

Professional or Student Associations:

- National Science Teachers Association (NSTA)
- Future Teachers of America (FTA)
- National Education Association (NEA)
- STEM Education Network