

What Can I Do With This **Ohio State** Major?

Bachelor of Science or Bachelor of Arts

Mathematics

College of Arts and Sciences

The mathematics major introduces students to the areas of real and complex analysis, number theory, abstract algebra, logic, and other fields. Mathematical models are used in such diverse areas as determining the shape of aircraft's wings for maximum lift, analyzing disease spread and control, and simulating network flows for efficient transportation systems. Mathematics also requires imagination, necessitating abstract and formalized thought on the one hand and creativity and intuition on the other. All people, in every trade and profession, use mathematics in their personal and professional lives. Mathematics study can be designed to support different career goals, such as employment in business and industry, pre-professional education, or preparation for graduate school.¹

Career Areas/Job Titles:

Management and Industry

Manager
Lawyer
Accountant
Finance Specialist
Market Researcher
Risk Management Specialist
Business Intelligence
Consultant
Actuary

Science and Technology

Researcher
Engineer
Computer Programmer
Web Administrator
Systems Developer
Software Developer
Technical Support Specialist
Physical Scientist
Education
K-12 Teacher
Professor

Administrator
SAT/ACT Research and Design

Government/Politics

Statistician
Cryptographer
Resource Management
Specialist

**Some careers may require licensure, certification, or further education. Talk to an advisor about specific requirements.*

Transferable Skills:

Basic Computer Skills
Computer Troubleshooting
Engineering Fundamentals
Mathematics
Expressing Ideas
Persuasion
Effective Use of Technology
Written Communication
Teaching/Instructing Others
Teamwork
Conceptualizing

Defining Needs
Developing Evaluation
Strategies
Forecasting/Predicting
Gathering Information
Identifying Problems
Research Skills
Setting Goals
Attention to Detail
Judgment & Decision Making
Organization Skills

Planning
Prioritizing Tasks
Strategic Planning/Visioning
Creating Innovative Solutions
Multi-tasking
Quantitative Reasoning
Data Analysis
Analytical/Critical Thinking
Problem Solving

**This is not an extensive list of transferable skills. See larger list of skills you might develop here:*

<http://ccss.osu.edu>

Professional Links:

Society for Industrial and Applied Mathematics: <http://www.siam.org/>

American Mathematical Society: <http://www.ams.org/home/page>

National Council of Teachers of Mathematics: <http://www.nctm.org/>

OSU Department of Mathematics: <http://www.math.osu.edu/ugadvising/careers>