

Mathematics is the language of science and a necessary component for participating in a dynamic technological age. Combined with Grove City College's required general education courses, mathematics majors integrate their specialized understanding of mathematics into the entire range of human knowledge and behavior.

Noteworthy Courses

- Topology (MATH 467)
- Number Theory (MATH 422)
- Actuarial Mathematics (MATH 306)
- Financial Mathematics (MATH 232)
- Combinatorics (MATH 210)

"The Department of Mathematics has exceeded my expectations. The unique part about being a math major is that every problem is different. I have learned how to analyze a situation and use the tools that I have gained to solve a problem."

Angela Palumbo '13

✓ **Research**

GCC faculty encourage students to take advantage of Research Experiences for Undergraduates (REU) at academic institutions throughout the United States. Students can also take part in research experiences occurring during the summer months at GCC. These paid student research experiences broaden and deepen student's classroom experience and can enhance their graduate school applications and resumes.

✓ **Internships**

GCC mathematics students partake in valuable internship experiences with local and national businesses. GCC students have participated in actuarial internships with Buck Consulting, Towers Perrin, and Erie Insurances. Students have also completed internships with local business, as well as with NASA, the NSA, and other government agencies.

✓ **Post-Graduation Placement**

GCC mathematics graduates get jobs in diverse and distinguished businesses, including Alcoa, Buck Consulting, USX, GE, Mellon Bank, PPG, Towers Perrin, Erie Insurance, and UPMC.

✓ **Graduate School**

GCC mathematics graduates continue their academic career by attending graduate schools, such as Penn State University, University of Pittsburgh, Clemson University, Indiana University, University of Illinois, NC State University, University of Kentucky.

**For more information: Contact Dr. Jackson, Department Chair
at 724-458-2054 or jacksonma@gcc.edu**

The Grove City College Mathematics Major is built on flexibility and rigor to allow for a multifaceted learning experience. Below are various options available for students to pursue.

Secondary Education Option:

Student Teaching: The Department of Education attempts to match each student to a particular school and cooperating teacher according to his or her personality and teaching style. The department also tries to honor student requests for types of schools, such as inner-city or suburban, high school or middle school. Education majors are supervised by Education Department personnel who focus on teaching skills and classroom management, as well as by a professor in his or her specific mathematics discipline who focuses on content knowledge.

Employment: Grove City College Alumni who have received teaching certification have gone on to teach at high schools throughout western Pennsylvania as well as the rest of the state and many areas of the country. Mathematics teachers are in high demand.

Actuarial Concentration:

Actuarial Exams: GCC's Math 306 and Math 232 courses prepare students for the first two Actuarial Exams. Passing the first exam puts students in a position to get an internship after their Junior year. Passing the second exam and having an internship makes the students competitive in the job market when they graduate. GCC's pass rates on these two exams are constantly well above the national average.

Double Major or Minor(s):

The Mathematics Major, if not pursuing one of the options above, leaves as many as 58 credits as general electives. This allows mathematics majors the option to double major in another field or add one or more minors in order to meet their academic goals.

GCC Mathematics students have completed double majors in Physics, Chemistry, Computer Science, Mechanical Engineering, Music, Economics, Sociology and Psychology, among others. New majors in Data Science and Business Analytics provide more options for students to combine the Mathematics major with other areas.

At present, more than half of the Junior and Senior students majoring in Mathematics have a second major or at least one minor declared.