

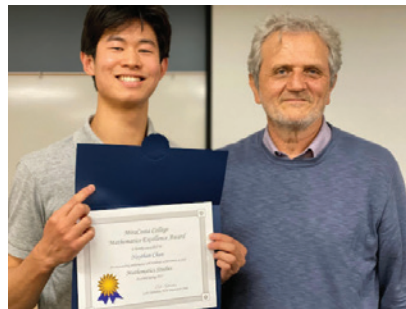
ASSOCIATE OF SCIENCE DEGREE MATHEMATICS FOR TRANSFER (AS-T MATHEMATICS)

By learning mathematics, students develop their reasoning abilities and problem-solving skills. Understanding numbers and shapes, formulas and processes, and chances and algorithms sets the foundation for our students to succeed in other sciences and to better understand the world around them.

For more information, go to miracosta.edu/math



MIRACOSTA COLLEGE
Mathematics
miracosta.edu/math



Naythan Chan, President of the Math Club and Dr. Zika Perovic, Math Professor and Math Club Advisor



The MiraCosta Community College District, and each individual who represents the District, shall provide access to its services, classes, and programs without regard to national origin, immigration status, religion, age, gender, gender identity, gender expression, race or ethnicity, color, medical condition, genetic information, ancestry, sexual orientation, marital status, pregnancy, physical or mental disability, or veteran status, or because they are perceived to have one or more of the foregoing characteristics, or based on association with a person or group with one or more of these actual or perceived characteristics. In addition to the aforementioned legally protected characteristics, the District also has an interest in nondiscrimination based on additional factors such as accent, citizenship status, economic status, and ethnic group identification even though students or employees could not make a legal claim of discrimination based on these factors.



Shaping Minds for Success.



MATHEMATICS PROGRAM

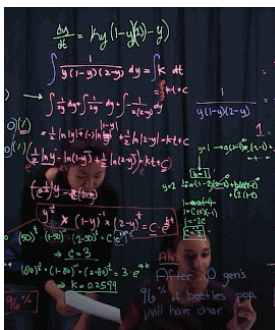
Mathematics, the abstract, deductive study of patterns and structures, is the foundation of all science and technology programs, such as biology, physics, computer science, behavioral, and social sciences as well as engineering. Our courses address topics in algebra, geometry, calculus, and various other theoretical and applied subjects. Students take mathematics courses to prepare for a mathematics major, to meet prerequisites in related disciplines, or to fulfill general education requirements.

Math Club

MiraCosta College Math Club was established in 2005 and is very active and creative. It is a hub for the exchange of ideas among our current and former students. The student organizers arrange for lectures, movies, discussions, robotics demonstrations, and working on mathematical problems. It's a space to share experiences, plans, and enthusiasm about mathematics.



Gadi Dayan, veteran student and Dr. Lemee Nakamura, Math Professor/Math Club Advisor



Data Scholars Club

Data Scholars Club

The Data Scholars Club was established in early August 2022 as a platform for students from diverse disciplines and backgrounds to unite and enhance their data science skills. The club's primary goal is to create a collaborative learning environment, providing mentorship and support for introductory data science, statistics, and computer science courses. Moreover, it offers guidance to students, aiding their progress in the field through academic assistance, research opportunities, professional development, and community engagement with fellow scholars from UCs and CSUs.

ADT IN MATH

Students completing the associate degree of Transfer (ADT) in Math will have completed lower-division major preparation requirements for a mathematics degree, an emphasis or option within a mathematics degree, or a degree considered similar to mathematics at a participating California State University (CSU) campus.

Following transfer to a participating CSU campus, students will be required to complete no more than 60 units to obtain a bachelor's degree; however, some CSU campuses may require additional lower-division major preparation.

Having an ADT will increase priority admission to the CSUs for many majors.

Students should consult with a MiraCosta counselor for further information regarding the most efficient pathway to transfer as a mathematics major and to determine which CSU campuses are participating in this program.

MATH OCCUPATIONS

Workers in this group of occupations use mathematics to make calculations, analyze data, and solve problems. Overall employment in math occupations is projected to grow much faster than the average for all occupations from 2022 to 2032. About 33,500 openings are projected each year, on average, in these occupations due to employment growth and the

need to replace workers who leave the occupations permanently.

The median annual wage for this group was \$99,590 in May 2022, which was higher than the median annual wage for all occupations of \$46,310.

WHAT CAN YOU DO WITH A BACHELOR DEGREE IN MATH?

Experts say a math degree is helpful for obtaining the following types of jobs. However, it should be noted that there are other occupations that math grads may also pursue besides these:

- Actuary
- Algorithmic engineer
- College or university math professor
- Data scientist
- Entrepreneur
- High school math teacher
- Investment banking analyst
- Management consultant
- Mathematician
- Operations research analyst
- Process engineer
- Project manager
- Quality assurance manager
- Software developer
- Statistician

| OCCUPATION | JOB SUMMARY | ENTRY-LEVEL EDUCATION | 2022 MEDIAN PAY |
|---|--|--------------------------|------------------|
| Actuaries | Actuaries use mathematics, statistics, and financial theory to analyze the economic costs of risk and uncertainty. | Bachelor's degree | \$113,990 |
| Data Scientists | Data scientists use analytical tools and techniques to extract meaningful insights from data. | Bachelor's degree | \$103,500 |
| Mathematicians & Statisticians | Mathematicians and statisticians analyze data and apply computational techniques to solve problems. | Master's degree | \$99,960 |
| Operations Research Analysts | Operations research analysts use mathematics and logic to help solve complex issues. | Bachelor's degree | \$85,720 |