

# MATHEMATICS & PHYSICS DEPARTMENT

## Mathematics Program

The program's mission is to foster students' development in quantitative and analytical reasoning skills, powerful mathematical problem-solving strategies, effective techniques for the communication of results and the capacity for lifelong independent learning. The major in mathematics leads to either a Bachelor of Arts (BA) or a Bachelor of Science (BS) degree. The program's flexible curriculum prepares students for diverse professional careers and for graduate studies. Faculty advisors work directly with majors and minors to design individual programs of study. Students who are potential majors or minors should consult with a faculty advisor as early as possible. Appointments with a faculty advisor can be made anytime by calling the department office.

### Co-Curricular Requirements

Students have the opportunity to broaden and reinforce the academic experience through participation in a variety of co-curricular activities. All students are encouraged to join the CSU Pueblo Math Club. Many students serve as tutors in the Math Learning Center.

## Physics/Physical Science Program

The major in physics leads to a Bachelor of Science (BS) Degree. In addition, supporting courses and general education courses in physics and astronomy are available for students with a wide spectrum of interests, backgrounds and needs. Physics majors must consult with a program advisor as early as possible and must file a departmentally approved plan of study by the beginning of the junior year. A degree plan may be designed based on the student's interests through consultation with the advisor and the department chair.

### Co-Curricular Requirements

The program faculty believes that students should have co-curricular experiences that complement and reinforce their academic experiences. Therefore, the faculty encourages students to join and participate in events sponsored by the department and the Society of Physics Students (SPS), Sigma Pi Sigma initiations, physics expositions, picnics, graduation dinners, potluck dinners, etc. to foster a spirit of camaraderie.

## Academic Programs

### Mathematics

#### Majors

- Mathematics, Bachelor of Arts (<https://catalog.csupueblo.edu/college-of-science-technology-engineering-and-mathematics/mathematics-physics/mathematics-ba/>)
- Mathematics, Bachelor of Science (<https://catalog.csupueblo.edu/college-of-science-technology-engineering-and-mathematics/mathematics-physics/mathematics-bs/>)
- Mathematics: Secondary Certification Concentration, Bachelor of Arts (<https://catalog.csupueblo.edu/college-of-science-technology-engineering-and-mathematics/mathematics-physics/mathematics-ba-secondary-certification-concentration/>)
- Math/Physics Double Major, Bachelor of Science ([https://catalog.csupueblo.edu/college-of-science-technology-engineering-](https://catalog.csupueblo.edu/college-of-science-technology-engineering-and-mathematics/mathematics-physics/math-physics-double-major/)

[and-mathematics/mathematics-physics/math-physics-double-major/](https://catalog.csupueblo.edu/college-of-science-technology-engineering-and-mathematics/math-physics-double-major/))

#### Minors

- Computational Mathematics, Minor (<https://catalog.csupueblo.edu/college-of-science-technology-engineering-and-mathematics/mathematics-physics/computational-mathematics-minor/>)
- Mathematics, Minor (<https://catalog.csupueblo.edu/college-of-science-technology-engineering-and-mathematics/mathematics-physics/mathematics-minor/>)

#### Certificates

- Data Analytics, Certificate (<https://catalog.csupueblo.edu/college-of-science-technology-engineering-and-mathematics/mathematics-physics/data-analytics-certificate/>)

## Physics

#### Majors

- Physics, Bachelor of Science (<https://catalog.csupueblo.edu/college-of-science-technology-engineering-and-mathematics/mathematics-physics/physics-bs-physics/>)
- Physics: Physical Science Secondary Certification Concentration, Bachelor of Science (<https://catalog.csupueblo.edu/college-of-science-technology-engineering-and-mathematics/mathematics-physics/physics-bs-physical-science-secondary-certification-concentration/>)
- Physics: Physics Secondary Certification Concentration, Bachelor of Science (<https://catalog.csupueblo.edu/college-of-science-technology-engineering-and-mathematics/mathematics-physics/physics-bs-physics-secondary-certification-concentration/>)
- Math/Physics Double Major, Bachelor of Science (<https://catalog.csupueblo.edu/college-of-science-technology-engineering-and-mathematics/mathematics-physics/math-physics-double-major/>)

#### Minors

- Physics, Minor (<https://catalog.csupueblo.edu/college-of-science-technology-engineering-and-mathematics/mathematics-physics/physics-minor/>)