

CONTRIBUTING DEPARTMENTS AND FACULTY

The following faculty represent the different departments offering courses and providing leadership in the development of the Center for Advanced Studies in Mathematics and Natural Sciences.

BIOLOGY

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(CASMNS Director)

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MATHEMATICS

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PHYSICS

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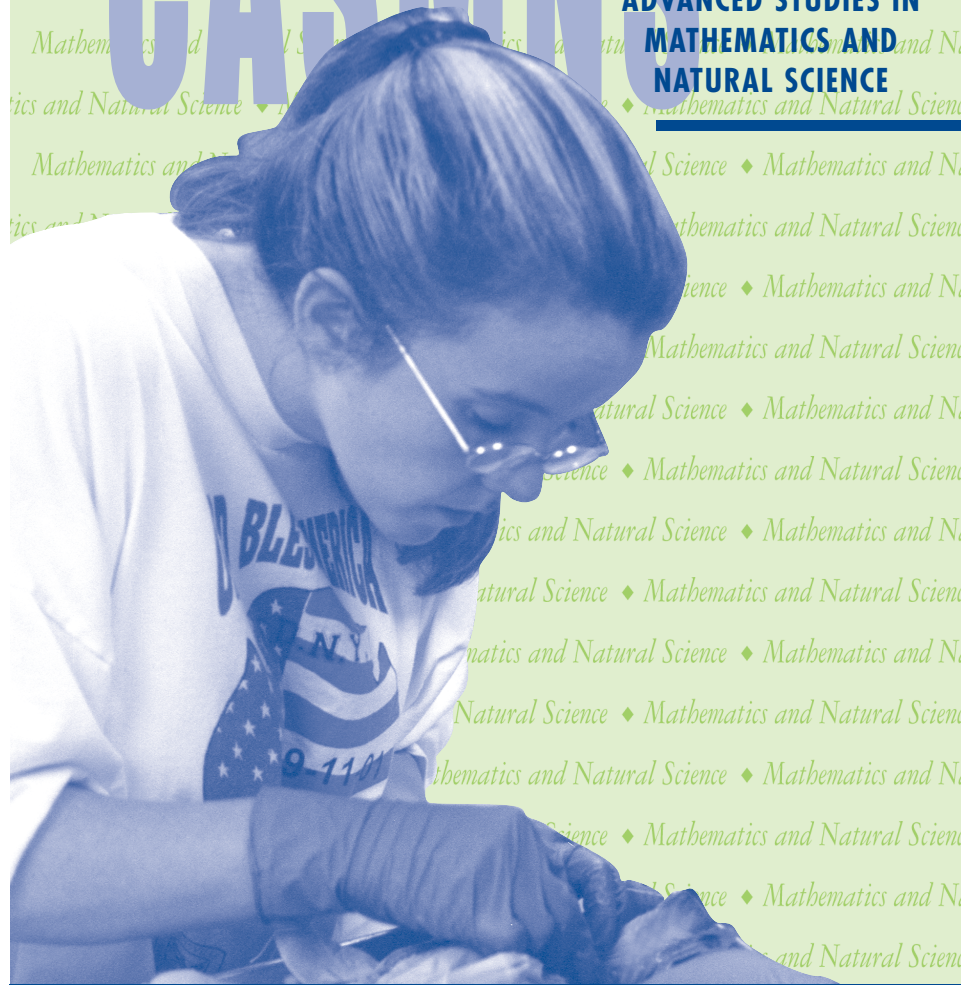


COLLIN COUNTY COMMUNITY COLLEGE DISTRICT

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CASMNS
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THE CENTER FOR
ADVANCED STUDIES IN
MATHEMATICS AND
NATURAL SCIENCE



THE CENTER FOR ADVANCED STUDIES IN MATHEMATICS AND NATURAL SCIENCES

Today's competitive environment has heightened the demand for academically prepared students. Universities, medical schools, graduate schools, and engineering schools are seeking students with a strong background in science and mathematics. If, for example, you are interested in pre-med or engineering, Collin County Community College District (CCCCD) offers the CASMNS program to help prepare you for the kind of successful future you envision.

The **Center for Advanced Studies in Mathematics and Natural Sciences (CASMNS)** is a specialized program offered by CCCCCD that is tailored for high school graduates who have taken Honors/Advanced Placement courses and seek a career in math or natural sciences. Based at the Spring Creek Campus in Plano, the program includes advanced courses for talented and motivated students majoring in the pre-professional areas of biology, chemistry, mathematics and physics.

Completing the CASMNS program will provide a range of experiences and benefits that include:

- ◆ Gaining a competitive advantage when transferring credits to a four-year university
- ◆ Earning special recognition and notation on official transcripts upon completion of 18 or more credit hours
- ◆ Participating in scholarly research
- ◆ Learning to prioritize and organize research for pre-professional mathematics and natural sciences programs
- ◆ Enrolling in small classes allowing students and professors to interact
- ◆ Attaining an emphasis on potential careers in mathematics and natural sciences

Students who meet strict enrollment criteria will be invited to participate in the CASMNS program. Applicants are assessed on the following enrollment requirements and should:

- ◆ Be highly motivated and major in mathematics or natural sciences
- ◆ Maintain a minimum overall grade point average of 3.0
- ◆ Have their transcripts evaluated to ensure that prerequisites have been met
- ◆ Be interviewed and recommended by a CASMNS faculty member or the CCCCCD dean of Mathematics and Natural Sciences

To be considered for admission to the CASMNS program, call 972.881.5880.

The goal of the **Center for Advanced Studies in Mathematics and Natural Sciences (CASMNS)** is to assist college freshmen and sophomores who possess a keen aptitude for science and mathematics by:

- ◆ Promoting academic excellence in mathematics and natural sciences
- ◆ Supporting student-centered scholarship
- ◆ Enhancing critical thinking and problem-solving skills
- ◆ Developing analytical and technical skills
- ◆ Promoting the ability to further scientific knowledge
- ◆ Providing an opportunity for the pursuit of intellectual growth both within and beyond the classroom
- ◆ Offering a platform for faculty-student collaborative research
- ◆ Encouraging students to effectively utilize scientific resources

COURSES OFFERED

FALL SEMESTER

BIOLOGY

General Biology I (BIOL 1406.SCI)

CHEMISTRY

General Chemistry I (CHEM 1411.SCI)

MATHEMATICS

Accelerated Calculus I (MATH 2417.SCI)

PHYSICS

University Physics I (PHYS 2425.SCI)

SPRING SEMESTER

BIOLOGY

General Biology II (BIOL 1407.SCI)

CHEMISTRY

General Chemistry II (CHEM 1412.SCI)

MATHEMATICS

Accelerated Calculus II (MATH 2419.SCI)

PHYSICS

University Physics II (PHYS 2426.SCI)