

Interdisciplinary studies

INTERDISCIPLINARY STUDIES - INTD

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**Noncredit - Certificate of competency
 Skills for success in science, math,
 and engineering pathways**

Students completing this program will be able to...

- A. identify the variables and problem-solving strategy for word problems involving applications in science and engineering.
- B. use algebraic terms, expressions, and equations to solve problems in science and engineering.
- C. apply algebraic laws to science and engineering concepts.
- D. use technology including calculators and graphing programs to perform calculations and to visualize and interpret data in science and engineering.

This noncredit certificate of completion presents the critical algebra skill development necessary for students to be successful in science and engineering educational pathways. The courses cover the application of fundamental skills in advanced science and engineering courses contextualized to a student's course of interest.

To earn a noncredit certificate of completion, students must complete both courses. The courses are noncredit. They are non-degree applicable and do not transfer to the California State University (CSU) or University of California (UC) systems or other private universities.

| <i>required courses:</i> | <i>units</i> |
|-----------------------------------------------------------------------------|--------------|
| INTD-080NC Problem Solving Skills for Science and Engineering Courses..... | 0 |
| INTD-081NC Applying Algebra Skills in Advanced Science and Engineering..... | 0 |
| total minimum required units | 0 |

INTD-010NC Supervised Tutoring

0 units P/NP
 • Variable hours

This noncredit open entry/open exit course provides students with tutoring and learning support in areas of identified academic need, including: communication/literacy skills, quantitative reasoning skills, and critical thinking skills. Students receive assistance from peer tutors to develop their ability to learn independently in order to increase academic success.

INTD-080NC Problem Solving Skills for Science and Engineering Courses

0 units P/NP
 • 24 hours lecture per term
 • Note: Students enrolled in CHEM-107, CHEM-108, PHYS-110, PHYS-111, PHYS-113, PHYSC-112 and ENGIN-130 should check the schedule of classes for information about section offerings.

This course is designed to help students improve their math problem-solving abilities in the sciences. Algebra skills critical for success in introductory science courses will be applied to typical science discipline problems.

INTD-081NC Applying Algebra Skills in Advanced Science and Engineering

0 units P/NP
 • 24 hours lecture per term
 • Note: Students enrolled in CHEM-120, CHEM-121, ENGIN-121, ENGIN-140, PHYS-120, PHYS-121, PHYS-129, and PHYS-130 should check the schedule of classes for information about section offerings.

This course is designed to help students improve their math problem-solving abilities in the sciences. Algebra skills critical for success in advanced science and engineering major courses will be applied to typical science discipline problems.

INTD-100 Study Abroad Life and Culture

3 units SC
 • 54 hours lecture per term

This course introduces students to the norms, culture, social structures, economic, and political systems of a foreign country as part of the study abroad program. Students learn about another culture through lectures by local experts, organized field trips, and authentic experiences. CSU

INTD-140 Tutor Training

1 unit SC
 • 18 hours lecture per term

• Note: Students who want to tutor in the Pleasant Hill Campus English Lab must take ENGL-140 instead of INTD-140. Students who want to tutor in the Pleasant Hill Campus Math Lab must take MATH-140 instead of INTD-140.

This one-unit course introduces students to the principles of effective tutoring. The strategies of tutoring that foster independent learning and promote critical thinking and understanding are emphasized. CSU