

# STEM - SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS



The curriculum in the STEM pathway includes studies in scientific concepts and skills, mathematics, engineering, and technology. Programs emphasize topics and skills in project-based learning, experimentation, computational thinking and real world applications.

Careers in this pathway include medical doctor (pre-med), engineer, mathematician, veterinarian, computer programmer, and chemist. These careers will require a bachelor's degree, advanced degree, or other credentials. Most programs in STEM are designed for students intending to transfer.

- Program Award definitions can be found on the Types of Degrees and Certificates (<https://catalog.cos.edu/areas-study/#summaryofdegreestext>) webpage.
- To sort/filter the table below, click the funnel icon under the column header.

## Degrees and Certificates

Program Title	Program Award	Division	Financial Aid Eligible
Biology ( <a href="https://catalog.cos.edu/areas-study/associate-science-biology-transfer-as-t/">https://catalog.cos.edu/areas-study/associate-science-biology-transfer-as-t/</a> )	A.S.-T Degree	Science	Yes
Chemistry ( <a href="https://catalog.cos.edu/areas-study/chemistry/associate-science-chemistry-transfer-as-t/">https://catalog.cos.edu/areas-study/chemistry/associate-science-chemistry-transfer-as-t/</a> )	A.S.-T Degree	Science	Yes

CISCO CCNA Academy ( <a href="https://catalog.cos.edu/areas-study/information-communications-technology/certificate-achievement-cisco-ccna-academy/">https://catalog.cos.edu/areas-study/information-communications-technology/certificate-achievement-cisco-ccna-academy/</a> )	Certificate of Achievement	Industry & Technology	Yes
Computer & Network Support ( <a href="https://catalog.cos.edu/areas-study/information-communications-technology/certificate-achievement-computer-network-support/">https://catalog.cos.edu/areas-study/information-communications-technology/certificate-achievement-computer-network-support/</a> )	Certificate of Achievement	Industry & Technology	Yes
Computer Applications ( <a href="https://catalog.cos.edu/areas-study/computer/certificate-achievement-computer-applications/">https://catalog.cos.edu/areas-study/computer/certificate-achievement-computer-applications/</a> )	Certificate of Achievement	Business	Yes
Computer Programming & Information Systems ( <a href="https://catalog.cos.edu/areas-study/computer/associate-science-computer-programming-information-systems-not-for-transfer-as/">https://catalog.cos.edu/areas-study/computer/associate-science-computer-programming-information-systems-not-for-transfer-as/</a> )	A.S. Degree	Business	Yes

Computer Programming & Information Systems ( <a href="https://catalog.cos.edu/areas-study/computer/certificate-achievement-computer-programming-information-systems/">https://catalog.cos.edu/areas-study/computer/certificate-achievement-computer-programming-information-systems/</a> )	Certificate of Achievement	Business	Yes	Industrial Automation ( <a href="https://catalog.cos.edu/areas-study/industrial-maintenance/certificate-achievement-industrial-automation/">https://catalog.cos.edu/areas-study/industrial-maintenance/certificate-achievement-industrial-automation/</a> )	Certificate of Achievement	Industry & Technology	Yes
Computer Science ( <a href="https://catalog.cos.edu/areas-study/computer-science/associate-science-computer-science-transfer-as-t/">https://catalog.cos.edu/areas-study/computer-science/associate-science-computer-science-transfer-as-t/</a> )	A.S.-T Degree	Math & Engineering	Yes	Information Communication Technology ( <a href="https://catalog.cos.edu/areas-study/information-communications-technology/associate-science-information-communication-technology-as/">https://catalog.cos.edu/areas-study/information-communications-technology/associate-science-information-communication-technology-as/</a> )	A.S. Degree	Industry & Technology	Yes
Engineering ( <a href="https://catalog.cos.edu/areas-study/engineering/associate-science-engineering-transfer-as/">https://catalog.cos.edu/areas-study/engineering/associate-science-engineering-transfer-as/</a> )	A.S. Degree	Math & Engineering	Yes	Liberal Arts with an Area of Emphasis in Natural Science ( <a href="https://catalog.cos.edu/areas-study/liberal-studies/associate-arts-liberal-arts-area-emphasis-natural-science-not-for-transfer-aa/">https://catalog.cos.edu/areas-study/liberal-studies/associate-arts-liberal-arts-area-emphasis-natural-science-not-for-transfer-aa/</a> )	A.A. Degree	Student Services	Yes
Geology ( <a href="https://catalog.cos.edu/areas-study/geology/associate-science-geology-transfer-as-t/">https://catalog.cos.edu/areas-study/geology/associate-science-geology-transfer-as-t/</a> )	A.S.-T Degree	Science	Yes	Mathematics ( <a href="https://catalog.cos.edu/areas-study/mathematics/associate-science-mathematics-transfer-as-t/">https://catalog.cos.edu/areas-study/mathematics/associate-science-mathematics-transfer-as-t/</a> )	A.S.-T Degree	Math & Engineering	Yes
Industrial Automation ( <a href="https://catalog.cos.edu/areas-study/industrial-maintenance/associate-science-industrial-automation/">https://catalog.cos.edu/areas-study/industrial-maintenance/associate-science-industrial-automation/</a> )	A.S. Degree	Industry & Technology	Yes	Physics ( <a href="https://catalog.cos.edu/areas-study/physics/associate-science-physics-transfer-as-t/">https://catalog.cos.edu/areas-study/physics/associate-science-physics-transfer-as-t/</a> )	A.S.-T Degree	Science	Yes

University Studies - Pathway to Math and Science ( <a href="https://catalog.cos.edu/areas-study/transfer-university-studies/associate-arts-university-studies-math-science-transfer-aa/">https:// catalog.cos.edu/ areas-study/ transfer- university- studies/ associate-arts- university- studies-math- science-transfer- aa/</a> )	A.A. Degree	Student Services	Yes
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