STEM PROGRAMS (SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS)

STEM is an abbreviation for science, technology, engineering, and mathematics. STEM education engages students in asking questions and solve problems related to the world around them. Using the engineering-design process, students identify problems, design possible solutions, and test and evaluate those solutions. This process, combined with the study of math and science, helps students to find connections that make science, math, and technology relevant to their lives.

STEM can include a variety of courses that combine subjects such as: computer science; artificial intelligence & cyber security; engineering & robotics; sustainability and green construction; environmental studies; marine science; natural sciences, mathematics, and so much more.

Degrees

- Artificial Intelligence, an Option to the Associate in Applied Science in Computer Science (https://catalog.ocean.edu/areas-study/stem/artificial-intelligence/)
- Chemistry, Associate in Science (https://catalog.ocean.edu/areas-study/stem/chemistry/)
- Computer Science, Associate in Science (https://catalog.ocean.edu/areas-study/stem/computer-science/)
- Computer Science/Information Technology, Associate in Applied Science (https://catalog.ocean.edu/areas-study/stem/computer-science-aas/)
- Computer Science Concentration, General Studies, Associate in Science (https://catalog.ocean.edu/areas-study/general-studies/general-studies-as-computer-concentration/)
- Computer Technology, an option to the Associate in Applied Science in Technical Studies. (https://catalog.ocean.edu/areas-study/stem/technical-studies-computer/)
- Cyber-Information Security, an Option to the Associate in Science in Computer Science (https://catalog.ocean.edu/areas-study/stem/cyber-as/)
- Cybersecurity, an Option to the Associate in Applied Science in Computer Science/Information Technology (https://catalog.ocean.edu/areas-study/stem/cyber-aas/)
- Engineering, Associate in Science (https://catalog.ocean.edu/areas-study/stem/engineering/)
- Environmental Science, Associate in Science (https://catalog.ocean.edu/areas-study/stem/environmental-science/)
- Game Design and Development, an Option to the Associate in Science in Computer Science (https://catalog.ocean.edu/areas-study/stem/game-development-design/)
- Industrial/Technical, an option to the Associate in Applied Science in Technical Studies. (https://catalog.ocean.edu/areas-study/stem/technical-studies-industrial/)
- Information Technology, an Option to the Associate in Science in Computer Science (https://catalog.ocean.edu/areas-study/stem/information-technology-as/)
- Mathematics Concentration, General Studies, Associate in Science (https://catalog.ocean.edu/areas-study/general-studies/general-studies-as-mathematics-concentration/)
- Science Concentration, General Studies, Associate in Science (https://catalog.ocean.edu/areas-study/general-studies/general-studies-as-science-concentration/)

Certificates:

- Artificial Intelligence, Certificate of Completion (https://catalog.ocean.edu/areas-study/stem/artificial-cc/)
- Advanced Manufacturing and Mechatronics, Certificate of Completion (https://catalog.ocean.edu/areas-study/stem/advanced-cc/)
- Cybersecurity, Certificate of Completion (https://catalog.ocean.edu/areas-study/stem/cyber-cc/)
- Environmental Sustainability, Certificate of Completion (https://catalog.ocean.edu/areas-study/stem/environmental-cc/)
- Industrial Hygiene/Hazardous Materials Management, Certificate of Completion (https://catalog.ocean.edu/areas-study/stem/industrial-cc/)
- Information Technology (https://catalog.ocean.edu/areas-study/stem/information-cc/), Certificate of Completion
- Information Technology, Certificate of Proficiency
- Technology Leadership, Certificate of Completion