



CURRICULUM GUIDE 2021-2022

ENGINEERING TECHNOLOGY FUNDAMENTALS

Certificate of Achievement in Engineering Technology Fundamentals

INTEREST AREA: SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS (STEM)

The Certificate of Achievement in Engineering Technology Fundamentals provides entry-level engineering technicians with the relevant basic knowledge and skills for various engineering technology and engineering industries. The certificate of achievement provides students the opportunity to progress in their Engineering/Engineering Technology education and achieve an associate degree in either Smart Advanced Manufacturing or Bioengineering. This certificate of achievement also provides a good introductory engineering foundation for transfer students.

Requirements for Certificate of Achievement

- Complete Major Field courses.
- Complete at least six units at Ohlone College.
- Maintain a 2.0 grade point average in Major Field courses.

Student Learning Outcomes

- Apply basic scientific methods, scientific reasoning, engineering principles, techniques, and/or basic formulas to solve problems related to engineering technology.
- Demonstrate effective communication and teamwork by contributing productively to the success of team-based engineering technology projects.

MAJOR FIELD

CAOT-150	Excel for the Sciences	.5
CAOT-151	Mathematical Computation and Communication	.5
COMM-111	Introduction to Public Speaking OR	3
ENGL-101A	Reading and Written Composition OR	(4)
ENGL-156	Introduction to Report and Technical Writing	(3)
ENGI-101	Introduction to Engineering	3
ENGI-115	Engineering Graphics and Design	4
ETEC-113	Safety in Industry	1
MATH-186	Pre-Calculus I	4
MATH-187	Pre-Calculus II OR	4
PHYS-108	Survey of Physics	(3)

Total Required Units: 19-21