

TECHNOLOGY WITH APPLIED TECHNOLOGY OPTION, BACHELOR OF SCIENCE (BS)

This program is designed for students who have graduated with an associate degree in applied arts and sciences (AAAS), associate degree in applied science (AAS), associate degree in technical arts (ATA) in computer technology, electronics, technology, mechanical engineering technology, civil engineering technology, drafting/design technology and similarly named programs at community colleges. This degree allows these students to continue their education by taking liberal arts courses, additional advanced technology courses and supporting courses to complete a Bachelor of Science Degree.

Note: Entrance into this program requires an AAS, AAAS, ATA or similar degree in an approved area from an accredited two-year college.

Applicants must have a GPA ≥ 2.5 for the Technology coursework in the AAS, AAAS or ATA degree. Graduation requires maintaining an overall GPA ≥ 2.5 for this option.

Note: This program requires an average of 15–16 credits per quarter to complete in 2 years. The 81 credits are based upon the following assumption: students will have satisfied university competencies. If this assumption is not true, then the student will have to complete up to six more credits of classes. (See university competencies in this catalog.)

Required Supporting Outside Department Courses

Any General Science course—5 credits in general science in any course equivalent to an EWU approved general science course	5
CHEM 121 CHEMISTRY AND ITS ROLE IN SOCIETY	5
or CHEM 151 GENERAL CHEMISTRY	
MATH 142 PRECALCULUS II	5
or MATH 107 MATHEMATICAL REASONING	
PHIL 210 CRITICAL THINKING	5
PHYS 100 PHYSICAL SCIENCE I	5

Required Departmental Courses

TECH 330 TECHNOLOGY PROBLEM ANALYSIS AND DESIGN I	4
TECH 331 TECHNOLOGY PROBLEM ANALYSIS AND DESIGN II	4
TECH 393 TECHNOLOGY WORLD CIVILIZATION	4
TECH 403 COMPUTER-AIDED DESIGN AND PROJECT MANAGEMENT	4
TECH 452 ENGINEERING ECONOMICS	4
TECH 454 ENVIRONMENTAL ENGINEERING	4
TECH 456 ENGINEERING ETHICS, CONTRACTS AND PATENTS	4
TECH 458 QUALITY ASSURANCE	4
TECH 462 INDUSTRIAL SAFETY ENGINEERING	4
TECH 490 SENIOR CAPSTONE: PRODUCTION LAB	4
TECH 491 SENIOR PROJECT (3–10 but limited to 6 for the program)	6
TECH 495 INTERNSHIP	10
Total Credits	81

For information on General Education, see Undergraduate Degree (<http://catalog.ewu.edu/archives/2016-2017/undergraduate-degree>).

Student Learning Outcomes—students will

- develop an appropriate mastery of the knowledge, techniques, skills and modern tools of their disciplines;
- develop a recognition of the need for, and the ability to engage in, lifelong learning;
- develop a commitment to quality, timeliness and continuous improvement,
- communicate effectively;
- identify, analyze and solve technical and creative problems;
- develop an ability to understand professional, ethical or social responsibilities.