APPLIED TECHNOLOGY MAJOR, 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.

- 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.
- This program requires an average of 15–16 credits per quarter to complete in 2 years. The 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 courses.

Grade Requirements: In order to graduate, students majoring in the department must earn an average GPA ≥2.5 in all courses required for this major (all courses in the list below).

Required Supporting Outside Department Courses		
CHEM 121	CHEMISTRY AND ITS ROLE IN SOCIETY	5
or CHEM 171 & 171L	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LABORATORY I	
or CHEM 161 & 161L	GENERAL CHEMISTRY FOR THE HEALTH SCIENCES and GENERAL CHEMISTRY LABORATORY FOR THE HEALTH SCIENCES	
MATH 142	PRECALCULUS MATH II	5
or MATH 107	MATHEMATICAL REASONING	
or MATH 114	ALGEBRA CONCEPTS	
or MATH 141	PRECALCULUS I	
or MATH 142	PRECALCULUS MATH II	
or MATH 161	CALCULUS I	
or HONS 161	CALCULUS I	
or MATH 200	FINITE MATHEMATICS	
or MATH 208	MATHEMATICS FOR ELEMENTARY TEACHERS I	
PHIL 210	CRITICAL THINKING	5
PHYS 100	PHYSICAL SCIENCE I	5
or PHYS 110	ENERGY, SOCIETY AND THE ENVIRONMENT	
or PHYS 121	DESCRIPTIVE ASTRONOMY	
or PHYS 131	INTRODUCTORY PHYSICS I	
or PHYS 151	GENERAL PHYSICS I	
Required Departmental Courses		
TECH 330	TECHNOLOGY PROBLEM ANALYSIS AND DESIGN I	4
TECH 331	TECHNOLOGY PROBLEM ANALYSIS AND DESIGN II	4
TECH/HONS 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
Required Senior Capstone Series		
APTC/TECH/ CMTC/DNTC/ MNTC 490	SENIOR CAPSTONE: PRODUCTION LAB	4
APTC/TECH/ CMTC/DNTC/ MNTC 491	SENIOR PROJECT (variable 4-8 credits but limited to 6 for the program)	6
APTC/TECH 495	INTERNSHIP	10
Total Credits		**76**

University Competencies and Proficiencies

English (http://catalog.ewu.edu/undergraduate-degree/#newitemtext)
Quantitative and Symbolic Reasoning (http://catalog.ewu.edu/undergraduate-degree/#mathcompproficienciestext)
Placement and Clearance (http://catalog.ewu.edu/placement/)
Prior Learning/Sources of Credit AP, CLEP, IB (http://catalog.ewu.edu/prior-learning/)

General Education Requirements (http://catalog.ewu.edu/undergraduate-degree/#generaleducationrequirementstext) (GER)

- Minimum Credits—180 cumulative credit hours
  - 60 upper-division credits (300 level or above)
  - 45 credits in residence (attendance) at Eastern, with at least 15 upper-division credits in major in residence at Eastern
- Minimum Cumulative GPA ≥2.0

Breadth Area Core Requirements (BACR)

Humanities and Arts (http://catalog.ewu.edu/undergraduate-degree/#humanitiesandfineartsgecrtext)
Natural Sciences (http://catalog.ewu.edu/undergraduate-degree/#naturalsciencesgecrtext)
Social Sciences (http://catalog.ewu.edu/undergraduate-degree/#socialsciencesgecrtext)

University Graduation Requirements (http://catalog.ewu.edu/undergraduate-degree/#universitygraduationrequirementstext) (UGR)

Diversity Course List (http://catalog.ewu.edu/undergraduate-degree/#cultureandgenderdiversityintheuslisttext)
World Language (http://catalog.ewu.edu/undergraduate-degree/#worldlanguagetext) (for Bachelor of Arts)
Global Studies Course List (http://catalog.ewu.edu/undergraduate-degree/#internationalstudiesrequirementtext)
Minor or Certificate (http://catalog.ewu.edu/undergraduate-degree/#majorminororcertificateugrtext)

Senior Capstone Course List (http://catalog.ewu.edu/undergraduate-degree/#capstonecourselisttext)

Application for Graduation (use EagleNET (https://inside.ewu.edu/eaglenet/)) must be made at least two terms in advance of the term you expect to graduate (undergraduate and post-baccalaureate).

Use the Catalog Archives (http://catalog.ewu.edu/archives/) to determine *two important catalog years*.
Requirements in Degree Works (https://inside.ewu.edu/records-and-registration/degree-works/) are based on these two catalog years:

a. The catalog *in effect at the student's first term* of current matriculation is used to determine **BACR** (Breadth Area Credit Requirements) **and UGR** (Undergraduate Graduation Requirements).
b. The catalog *in effect at the time the student declares a major or minor* is used to determine the program requirements.

Students who earn a BS in Applied Technology from EWU should be able to:

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