

BACHELOR OF SCIENCE IN ENGINEERING TECHNOLOGY



BUILD IT. BREAK IT. MAKE IT.

Our program gives you the opportunity to experience education in a practical, hands-on way. You'll have close, continuous interactions with faculty as you begin building your career through projects, independent research, internships, and interactive design.

This well-rounded degree can prepare you for jobs such as:

- *Production Supervisor*
- *Project Manager*
- *Safety Engineer*
- *Distribution Supervisor*
- *Manufacturing Engineer*
- *Product Design Engineer*
- *Machine Designer*
- *Engineering Manager*

INDUSTRY-DRIVEN CURRICULUM

In our program, you'll develop innovation and leadership skills that will help you succeed in the workplace. We emphasize engineering, technology, and technology management with practical classroom instruction and hands-on experience and opportunities to obtain industry-recognized certifications.

- + WELL-ROUNDED CURRICULUM
- + DEDICATED AND HIGH QUALITY FACULTY
- + EXTENSIVE ENGAGEMENT OPPORTUNITIES

ACTIVE RESEARCH

Here at Eastern, you'll be able to engage and develop your research interests. Our interdisciplinary research studies connect you with industrial partners to pursue practical, real-world projects.

PROFESSIONAL NETWORKING

We purposefully develop strong relationships with companies, to provide you with regular interaction with industry leaders. Activities include technical projects, field trips, plant tours, national competitions, guest speakers, trade show attendance, and an industry-sponsored capstone experience. These interactions lead to many internship and full-time job offers.

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BACHELOR OF SCIENCE IN ENGINEERING TECHNOLOGY

TOTAL MAJOR COURSEWORK: 125 HRS

CORE COURSEWORK: 69 HRS

CMG 2953 Statics and Strength of Materials
DGT 1363 Introduction to Graphics
EGT 1303 Engineering Technology Applications
EGT 1323 Computers for Engineering Technology
EGT 2004G Materials Science and Evaluation
EGT 2043 Computer-Aided Engineering
EGT 2424 Manufacturing and Fabrication Processes
EGT 2773 Safety for Engineering Technology Professionals
EGT 3063 3-D Modeling
EGT 3414 Engineering Technology Project Management

MATHEMATICS: 7 HRS

MAT 1271 College Algebra
MAT 2250G Elementary Statistics

MAJOR ELECTIVES: 12 HRS

Students in Engineering Technology will be able to take 12 hours of elective courses from the School of Technology to broaden their educational experience. This will require students to take other upper division courses to meet the University requirements. Currently approved engineering technology course electives are listed in the table below. Upon approval from the EGT Program Coordinator and SOT Department Chair, students may also take upper division courses in Computer & Information Technology, Construction Management, or the Digital Media programs in the School of Technology as electives.

SOME ELECTIVES FOR ENGINEERING TECHNOLOGY:

CIT 4183 Microcomputer Interfacing and Data Acquisition
CMG 4913 30 Hour OSHA Certification for Construction
EGT 3103 Robots and Control Systems
EGT 3253 Energy Technology
EGT 3453 Renewable Energy
EGT 3753 Biometrics in Engineering Technology
EGT 3803 Engineering Technology Ergonomics
EGT 4763 Work Measurement and Method Design
EGT 4803 Plant Layout and Material Handling
EGT 4823 Facility Security
EGT 4903 30 hour OSHA Certification for General Industry
TEC 3920 Independent Study
TEC 4000 Undergraduate Research
TEC 4275 Industrial Internship
TEC 4444 Honors Independent Study
TEC 4555 Honors Research
TEC 4644 Honors Thesis
TEC 4800 Management of Innovation and Technology

EGT 3663 CNC and Rapid Prototyping
EGT 3703 Machine Design
EGT 3763 Automation and Data Capture
EGT 4503 Engineering Technology Cost Analysis
EGT 4704 Engineering Technology Capstone
EGT 4753 Lean Manufacturing
EGT 4843 Statistical Quality and Reliability
EGT 4943 Manufacturing Management
ODL 4835 Supervision in Organizations
TEC 4275 Industrial Internship

PHYSICAL SCIENCE: 4 HRS

PHY 1151G Principles of Physics I
PHY 1152G Principles of Physics I Laboratory

SUGGESTED 4-YEAR SEQUENCES

- The above four-year sequence assumes high school foreign language requirements have been met.
- Consult Course Catalog for specific prerequisites.

FALL		YEAR 1		SPRING	
EGT 1413	3	EGT 2004G	4		
EGT 1303	3	EGT 2043	3		
EGT 1323	3	MAT 1271	3		
ENG 1001G	3	DGT 1363	3		
CMN 1310G	3	ENG 1002G	3		
	Total	15		Total	16
FALL		YEAR 2		SPRING	
CMG 2953	3	EGT 3703	3		
EGT 2324	4	Tech. Elective	3		
EGT 2773	3	EGT 2424	4		
PHY 1151/1152G	4	Biology	3		
MAT 2250G	4	Humanities/Fine Arts	3		
	Total	18		Total	16
SUMMER					
TEC 4275 Industrial Internship				Total	1
YEAR 3					
EGT 3414	4	EGT 4843	3		
EGT 3763	3	EGT 3663	3		
EGT 3063	3	EGT 4753	3		
Humanities/Fine Arts	3	Humanities/Fine Arts	3		
Social/Behavioral Science	3	Social/Behavioral Science	3		
	Total	16		Total	15
YEAR 4					
ODL 4835	3	EGT 4704	4		
EGT 4943	3	EGT 4503	3		
Tech. Elective	3	Tech. Elective	3		
Tech. Elective	3	Senior Seminar	3		
Social/Behavioral	3				
	Total	15		Total	13

