Welcome to the Department of Technology

Ashley Berg, Academic Advisor
Turner Hall 215B
ahowe2@ilstu.edu
(309)438-2665
Technology Department

- Applied, hands-on programs
- Management oriented
- Small class sizes (20-30 students on average)
- Proactive and hardworking students typically have job offers upon graduation
Computer Systems Technology

- Computer/device networking
- Electronic communications
- Software application development
- Computer hardware
- Project management

- Network Systems Manager
- LAN Administrator
- Telecommunications Manager
- Business Analyst
Computer Systems Technology vs. Information Technology

• Our CST major includes programming but mostly focuses on the hands-on side of working with computers- routers, switches, networking, etc.

• Majors in IT like Computer Science, Cybersecurity, Information Systems focus on heavy programming and coding
CST Major Sheet found here: https://tec.illinoisstate.edu/computer-systems-technology/curriculum/

Programming languages in the curriculum: C++, Java, C

Platforms used: Windows and Linux

Certifications students may pursue: A+, Network+, CCNA, MCSE, Security+
Construction Management

- Administration
- Technology
- Architectural and engineering principles
- Business
- Applied science
- Mathematics

- Project Manager
- Estimator
- Construction Manager
- Safety Officer
- Building Code Administrator
CM Major Sheet found here: https://tec.illinoisstate.edu/construction-management/curriculum/

Students earn their 30 hour OSHA card in HSC 272

Make sure to always follow your assigned catalog: 2020-2021
Engineering Technology

- Materials science
- Programming logic principles
- Lean manufacturing processes
- Computer-aided design systems
- Manufacturing documentation
- Project management

- Project Engineer
- Process Engineer
- Production Engineer
- Quality Engineer
- Manufacturing Engineer
Engineering Technology vs. Engineering

- Engineering Technology majors improve engineering processes, manage projects, and apply existing technology to solve complex problems.

- Engineering majors eventually do work involving conceptual design or research and development with a heavy use of analytical tools and theoretical design—high level of science and math.
ET Major Sheet found here: https://tec.illinoisstate.edu/engineering-technology/curriculum/index.php

Some certifications that students may pursue:
- Certified Manufacturing Technologist
- Certified Controls Engineer
- Certified Technology Manager
- Certified Technical Professional
- Certified Manufacturing Specialist
- Certified Engineering Graphics
- MEMS Foundation Certification
- Certified Lean Six Sigma
Graphic Communications Technology

- Digital media creation and management
  - Photo, illustration, video, animation
- Graphic production processes
- Project management
- Cross media and packaging
- Web content management

- Production Designer
- Web Content Manager
- Media Developer
- Structural Designer
- Premedia Technologist
GCT Major Sheet found here: https://tec.illinoisstate.edu/graphic-communications-technology/curriculum/index.php
Sustainable & Renewable Energy

• Energy sustainability
• Energy efficiency
• Wind, solar, biofuels, and biomass energy development
• Regulatory and government policy analysis
• Program requires a minor: business administration, economics, environmental studies, geography, technology, AAMS

• Wind Engineer
• Energy Analyst
• Field Manager, Solar Installation
• Energy Auditing Specialist
SRE Major Sheet found here: [https://tec.illinoisstate.edu/renewable-energy/curriculum/index.php](https://tec.illinoisstate.edu/renewable-energy/curriculum/index.php)

Students are encouraged to get their Solar Site Assessment Certification
Technology & Engineering Education

- Nature of technology and design
- Technology and society
- Learning environments
- Curriculum and instruction
- Technology content areas

- High School Teacher
- Trade School Teacher
- Private Technical School Teacher
- School District Technology Coordinator
Engineering Education
What do T&E Education students teach?

- Automotive technology
- Engineering
- Civil engineering and architecture
- Computer-aided design
- Drafting and design
- Computer science
- Energy, power, and transportation
- Electronics
- Digital media
- Construction
- Industrial trades
- Information technology
- Graphic communications
- Manufacturing
- Medical, agricultural, and biotechnology
- Robotics
- Woodworking
- And more!
TIEE Major Sheet found here: https://tec.illinoisstate.edu/technology-engineering-education/curriculum/index.php
RSOs & Involvement

- **CST**: Institute of Electrical and Electronics Engineers (IEEE)
- **CM**: Construction Management Student Association (CMSA)
- **ET**: Engineering Technology (ET) Club
- **GCT**: Graphic Communications Education Association (GCEA-ISU)
- **SRE**: Renewal Energy Society (RES)
- **TEE**: Technology and Engineering Education Collegiate Association (TEECA)

- Professional development opportunities including presentations, competitions, conferences, etc.
Internships

- Work in a career-related professional setting
- Work duties are planned and monitored
- Supervised by site supervisors and monitored by faculty
- Perform management-oriented work duties
Scholarships

- Department wide scholarships
- Major specific scholarships
- Committee scholarships

- Due March 1\textsuperscript{st} every year
- Amounts can fluctuate
Technology Advisement Team

• Ashley Berg, Academic Advisor
  – ahowe2@ilstu.edu

• Jennifer Florence, Program Student Advisor
  – jjflore@ilstu.edu

Your 1st year you will meet with your assigned University College or Honors Program Advisor. **Meet with your advisor at least once per semester!**
## Registration

### What to register for
- ENG 101 or COM 110
- MAT 120* (or prereq)
- CHE 102**
- Major course
- General education course
- Electives?

### Major courses
- CM: TEC 100, TEC 120
- ET: TEC 100, TEC 111 or 116
- CST: TEC 100, TEC 151
- GCT: TEC 100, TEC 116
- SRE: TEC 100, TEC 160
- T&E Ed: TEC 101, TEC 111 or 116

---

*T&E Ed does not require MAT 120 but it is recommended for gen ed math

**T&E Ed does not require CHE 102 so another approved BSC/CHE/GEO course can be taken for general education, confirm with your advisor
Questions?
Department Contacts

- Additional overview of the department- Dr. Ted Branoff, Department Chair
  - tjbrano@ilstu.edu
- Computer Systems Technology- Dr. Anu Gokhale, CST Coordinator
  - aagokha@ilstu.edu
- Construction Management- Dr. Pranshoo Solanki, CM Coordinator
  - psolank@ilstu.edu
- Engineering Technology- Dr. Kevin Devine, ET Coordinator
  - kldevin@ilstu.edu
- Graphic Communications Technology- Dr. Dan Wilson, GCT
  - dgwilso@ilstu.edu
- Sustainable & Renewable Energy- Dr. Jin Jo, SRE Coordinator
  - jjo@ilstu.edu
- Technology & Engineering Education- Dr. Josh Brown, TEE Coordinator
  - jbrown4@ilstu.edu