



EKCU®

**COLLEGE OF SCIENCE, TECHNOLOGY,
ENGINEERING, & MATHEMATICS**



What are we talking about here?

What the names of our programs mean

BS-ETM

What does “ETM” mean?

ETM is an abbreviation for:

**“Engineering Technology
Management”**

The BS-ETM program is linked so that you can acquire an Associates degree (AAS-Technology) at the same time.

A “3+2” option can provide a “head start” to an MS in Technology Management.

BS-CST

What does “CST” mean?

CST is an abbreviation for:

**“Cyber Systems
Technology”**

The BS-CST program is linked so that you can acquire an Associates degree (AAS-Technology) at the same time.

A “3+2” option can provide a “head start” to an MS in Technology Management

What roles might I have when I graduate?

Some job titles of our graduates

BS-ETM graduates

- Quality process engineer
- Manufacturing Engineer
- Automation Engineer
- Robotic programmer
- Process engineer
- Process Optimization Manager
- Production Engineer
- Project Manager
- Business Analyst
- Industrial Systems Engineer

BS-CST graduates

- IS Technical Specialist
- Technology Consultant
- IT Site Support Tech
- Technology Resource Manager
- Information Security Administrator
- Network Engineer
- Solutions Architect
- Detection and Response Engineer
- DevOps Engineer
- IT Help Desk

Will I really benefit from being here?

Quotes from actual program graduates

BS-ETM

ETM GRADUATE COMMENT:

“The program was highly focused on useful knowledge with minimal wasted time.

Focus on the field makes the college experience more enjoyable and makes it feel like it was worth it.

The knowledge learned in the program has directly transferred to my career.”

Source: ETM Program graduate quote, ECU Alumni survey (2019-22)

BS-CST

CST GRADUATE COMMENT:

“(My BS-CST degree) has helped me significantly in my career.

From the team building skills to hands on experience with IT tools, the knowledge and real world applications prepared me greatly for the workforce.”

Source: CST Program graduate quote, Departmental survey (2023)

When I finish, can I get a job or go to graduate school?

Future employment or additional education

YES! ETM and CST graduates overwhelmingly obtain full-time employment in their field. If already employed, graduates often gain pay increases and/or promotions.

EKU Alumni Survey - Goals

ETM

Item	Yes, right away or currently enrolled	Yes, but not right away	No
Plans to continue formal education?	2	3	5

Item	Yes, full-time in my field	outside my field	No
Are you employed full-time or have you accepted a full-time position?	10	0	0

Item	Yes	Maybe	No
Did you receive, or do you anticipate receiving, a raise in salary for completing your degree?	4	1	1

EKU Alumni Survey - Goals

CST

Item	Yes, right away or currently enrolled	Yes, but not right away	No
Plans to continue formal education?	2	5	9

Item	Yes, full-time in my field	outside my field	No
Are you employed full-time or have you accepted a full-time position?	10	1	5

Item	Yes	Maybe	No
Did you receive, or do you anticipate receiving, a raise in salary for completing your degree?	4	2	2

Source: EKU Alumni survey (2019-22)

Can I earn a good salary when I graduate?

Salaries in the ETM and CST fields

YES! ETM and CST graduates earn good salaries.

BS-ETM graduates – less than 2 years

EKU Alumni Survey - Salary Ranges

	\$35K-\$45K	\$45K-\$55K	\$55K-\$75K	> \$75K	No answer
Approximate salary range	0	3	3	2	0

BS-CST graduates – less than 2 years

EKU Alumni Survey - Salary Ranges

CST

	<\$45K	\$45K-\$55K	\$55K-\$75K	> \$75K	No answer
Approximate salary range	3	4	0	1	0

Can I stay in the program if I join?

Program Retention Rates: ETM and CST

YES! ETM and CST student retention rates range from 50-70% year-to-year and are similar to the university overall rates.

Source: ECU Institutional Research (2018-22) – AEM and ETM program retention (all data)

Can I get good grades?

Mean GPA's

YES! ETM and CST students earn mean GPA's that are comparable to the university mean GPA's, in a range of 3.1 to 3.2.

Source: ECU Institutional Research (2018-23) – AEM and ETM Weighted GPA by program

Can I earn additional financial support in school?

Scholarships and Awards: ETM and CST

YES! ETM and CST students have been awarded \$ 20,000 in departmental scholarships and awards over 2018-22. Additionally, some students obtain paid work as student assistants.

Source: ECU Scholarship/Awards, Custom Report (2018-22) – AEM and ETM programs

Can I earn other credentials?

Associates and Graduate Programs

YES! Our program enables ETM and CST students to earn an Associates degree with their Bachelor degree. Many of our students graduate with both AAS and BS degrees.

For outstanding students, our “3+2” program can enable students to earn BS and MS degrees in 5 years, by giving students a “head start” to their MS degree.

Source: Program Descriptions for AAS and 3+2 BS/MS programs – AEM and ETM

How do you assure that my program is relevant?

Outcome measures used to continuously improve program offerings

BS-ETM

BS-CST

Yes! We validate our programs via:

- student performance on national certification exams as taken when students graduate
- careful evaluation of capstone projects completed by our students
- active involvement of industry experts, including advisory committees and regional industry
- program faculty curriculum committees
- surveys of graduates (especially 1-to-5-year grads)

Will I use current tools and techniques in my classes?

Selected meaningful changes in our programs over the past 5 years

BS-ETM

- Added ProModel CAD simulation for manufacturing
- Added lab activities using SolidWorks toolbox and preparation for CAD software certification exam
- Added “MS Project” for project management
- Integrated Arduino sensor applications in labs
- Added capstone project poster displays to
- Professional conduct and workplace ethics

BS-CST

- Gaming-inspired learning activities and creative use of cell phones
- Added special topics courses:
 - Single-board Systems & Linux
 - Modern Web Design
 - Cloud Tech Foundations
 - Pi and IoT Arduino
- Launched CST Technical Seminar series with monthly guest speakers from IT industry
- Added labs on wireless routers and network security attacks with countermeasures, Windows Server '22 and VMware workstation