



# Career & Technical Education

## B.S. Degree

### Technical Education Concentration

#### Career & Technical Education at EKU

EKU has had teacher preparation programs for Career and Technical Education since the Department's historical beginning. Programs available for those who plan to teach and those who are presently teaching many technical subject areas include: Technical Education, Engineering/Technology Education and Occupational Training and Development. An Agriculture Education program is also available. The technical teacher education programs are accredited by the Council for the Accreditation of Educator Preparation (CAEP). EKU has one of the largest and most comprehensive technical education programs in the State.

#### Career & Technical Education Careers

A well-planned program for teacher preparation and a closely-articulated pathway for those presently teaching in the State's area technology centers, middle schools, high schools and Kentucky Community and Technical College (KCTCS) schools is available at EKU.

The Bachelor of Science Degree in Career and Technical Education prepares teachers for positions in technical education specialty areas such as construction, manufacturing, transportation and information technologies. The Engineering/Technology Education concentration is a unique, high-demand program that prepares teachers for middle schools and high schools -- an enjoyable teaching area that has many employment opportunities in Kentucky and other nearby states. Most Central and Southeastern Kentucky school systems employ technical teachers who are Department alumni.

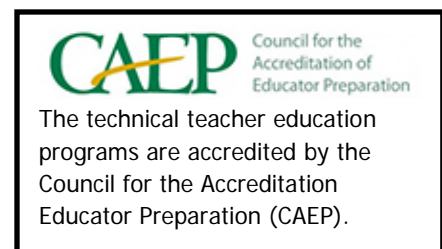
EKU also has a Certification Program and Associate of Science Degree in Career and Technical Education that is offered in conjunction with the Kentucky Office of Career and Technical Education. These programs are for teachers of many technical programs, including electronics, health science, carpentry, welding, computer technology, industrial maintenance, and other high-tech areas, primarily in Central and Southeastern Kentucky.

#### Department Facilities, Faculty & Student Organizations

The Department is located in the Ralph W. Whalin Technology Complex which includes approximately 100,000 square feet of classroom and laboratory space. Laboratories housed in the Whalin Complex include: aviation, electronics, computer aided drafting (CAD), graphic communications, quality assurance, industrial materials, metallic materials, construction fabrication, hydraulics/pneumatics and computer applications. The facilities are located in the central portion of campus, close to the library, classroom buildings and dormitories. Faculty in the department have diversified academic and experience backgrounds. They are experienced, enthusiastic and devoted to providing students the skills necessary to succeed.

#### For More Information

Department of Applied Engineering and Technology  
307 Whalin Complex  
Eastern Kentucky University  
521 Lancaster Avenue  
Richmond, KY 40475-3102  
859-622-3232  
<http://technology.eku.edu>





**Suggested Curriculum Guide for Career and Technical Education (Teaching),  
 Technical Education Concentration**

**Freshman (1<sup>st</sup> Semester) 16 hrs**

- BTO 100 Orientation (1 hr)
- E-1A ENG 101 or 105 English Composition
- TEC 161 Computer Applications in Technology
- E-1C Oral Communication
- E-4A Life Sciences
- Elective (3 hrs)

**Sophomore (1<sup>st</sup> Semester) 13 hrs**

- EDF 103\*\* Introduction to Education (1 hr)
- E-3B Humanities
- E-5B Social & Behavioral Science
- Technical Electives\* (6 hrs)

**Junior (1<sup>st</sup> Semester) 15 hrs**

- CTE 363 Evaluation in Career & Tech Ed
- TEC 349\* Co-op Study or Tech. Electives (9 hrs)
- E-6 Diversity of Perspectives & Experiences

**Senior (1<sup>st</sup> Semester) 15 hrs**

- CTE 361 Course Materials in CTE
- EDF 319 Human Development & Learning
- ESE 552\*\* Teach Career/Tech Ed in Mid/Sec
- Technical Electives\* (6 hrs)

**Freshman (2<sup>nd</sup> Semester) 18 hrs**

- E-1B ENG 102 English Composition
- E-2 MAT 107 College Algebra
- E-3A Arts
- E-5A Historical Perspective
- Technical Electives\* (6 hrs)

**Sophomore (2<sup>nd</sup> Semester) 13 hrs**

- CTE 262\*\* Foundations of CTE
- EDF 310\*\* Transition to Education (1 hr)
- E-4B Physical Science
- Technical Electives\* (6 hrs)

**Junior (2<sup>nd</sup> Semester) 15 hrs**

- SED 401\*\* Exceptional Learners
- E-6 Diversity of Perspectives & Experiences
- BTS 300 Professional Skills Seminar (0 credit)
- Technical Electives\* (9 hrs)

**Senior (2<sup>nd</sup> Semester) 15 hrs**

- ESE 490\*\* Secondary Curriculum
- CTE 463\*\* Practicum in CTE (12 hrs)
- BTS 400 College to Careers Seminar (0 credit)

\*Laboratory courses in the area or related to the area the individual is planning to teach. The selection must be approved by the advisor and department chair. Eighteen semester hours maximum may be allowed by proficiency examination (CTE 204, 205, 206, 304, 305, 306) for these electives. Nine semester hours maximum may be allowed for supervised work experience (TEC 349). Forty-five (45) technical hours are required.

\*\* In-service teachers should substitute CTE 463 (4 hrs), CTE 164, CTE 261, CTE 364, and SED 104 for CTE 463 (12 hrs), EDF 103 (1 hr), EDF 310 (1 hr), SED 401, ESE 490, and ESE 552.

**UNIVERSITY GRADUATION REQUIREMENTS**

General Education .....	36 hrs
Orientation Course (waived for transfers with 30+ hrs.) .....	1 hr
Wellness .....	3 hrs
Total Hours University Graduation Requirements .....	40 hrs

**College Requirements:**

BTS 300 and BTS 400 (CR only, no hrs) .....	0 hrs
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**Major Requirements** .....

45 hrs  
 Forty-five semester hours of technical courses to be chosen in consultation with the advisor. A maximum of 18 semester hours (in CTE 204, 205, 206, 304, 305, and 306 may be allowed by proficiency examination; TEC 349\* [9 hours]).

**Professional Education Core** .....

28-38 hrs  
Pre-service: CTE 262, 361, 363, 463 (12) or ESE 499 (12); EDF 103(1), 310 (1), 319 or 319W; ESE 490, 552; SED 401 or 401S; and 3 hrs of Applied Learning Experience: EDF 349Q(0.5), 349R(0.5); EMS 349Q(0.5), 349R(0.5); ESE 349(1).  
In-service: CTE 164, 261, 361, 363, 364, 463(4); EDF 320, SED 104, TEC 161.

**Free Electives** .....

3-10 hrs

**Total Curriculum Requirements** ..... 120 hrs