

# CAREER AND TECHNICAL EDUCATION/TEACHING, BACHELOR OF SCIENCE WITH A CONCENTRATION IN ENGINEERING/TECHNOLOGY EDUCATION (B.S.)

Career and Technical Education concentrations require all pre-service students to meet the general education knowledge for initial teacher preparation requirements (see College of Education section of this *Catalog*).

The BS degree program in Career and Technical Education is accredited by the Council for the Accreditation of Educator Preparation.

## Program Requirements

CIP Code: 13.1319

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication ( <a href="http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-1/">http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-1/</a> )	3
B:	Written Communication ( <a href="http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-1/">http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-1/</a> )	3
C:	Oral Communication ( <a href="http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-1/">http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-1/</a> )	3
<b>Element 2</b>		
	Quantitative Reasoning ( <a href="http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-2/">http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-2/</a> )	3
<b>Element 3</b>		
A:	Arts ( <a href="http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-3/">http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-3/</a> )	3
B:	Humanities ( <a href="http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-3/">http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-3/</a> )	3
<b>Element 4</b>		
	Natural Sciences ( <a href="http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-4/">http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-4/</a> )	6
<b>Element 5</b>		
A:	Historical Science ( <a href="http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-5/">http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-5/</a> )	3
B:	Social Behavioral Science ( <a href="http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-5/">http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-5/</a> )	3
<b>Element 6</b>		

Diversity of Perspectives Experiences ( <a href="http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-6/">http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-6/</a> )	6
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**Total Hours** 36

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
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<b>University Graduation Requirements</b>		
General Education		36

*Student Success Seminar*

BUS 100	Professional Development One (waived for transfers with 30+ hrs.)	1
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Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

**Major Requirements**

*College Requirements*

BUS 300	Professional Development Three (CR only, no hours)	0
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BUS 400	Professional Development Four (CR only, no hours)	0
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**Pre-Service Teacher Education Program**

*Career and Technical Education Requirements*

CTE 262	Foundations of Career and Technical Education (Pre-Service)	3
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CTE 361	Course Materials in Career and Technical Education	3
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CTE 363	Evaluation in Career and Technical Education	3
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*Concentrations*

Students must select one of the following Concentrations:

Agriculture Education

Technical Education

Engineering/Technology Education <sup>1</sup>	45
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*Professional Education Requirements*

EDF 203	Educational Foundations	3
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EDF 219	Human Development and Learning	3
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EDF 413	Assessment in Education	2
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EMS 300W	Curriculum and Instructional Design	1
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EMS 474	Disciplinary Literacy	3
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EMS 490	Classroom & Behavior Management	1
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ESE 552	Teaching of Career and Technical Education in Middle and Secondary Schools	3
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SED 104	Special Education Introduction (Element 6) <sup>G,C</sup>	
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TEC 368	Workshop in Technology <sup>2</sup>	3
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*Clinical Experiences:*

CED 100	Clinical I: Introduction to the Education Profession	0
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CED 200	Clinical II: Understanding the Learner	0
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CED 300	Clinical III: Curriculum and Instructional Design	0.5
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CED 400	Clinical IV: Diagnosis and Prescription	0.5
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CED 450	Clinical V: Practicing Teaching	1
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CED 499	Clinical VI: The Professional Semester	9
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**Total Hours** 121

**G**

Course also satisfies a General Education element. Hours are included within the 36 hours in General Education.

**C**

Course also satisfies Core or Concentration requirements

**1**

Those desiring eligibility to teach in pre-engineering education programs at the middle school and high school level should take the following general education courses: CHE 111 General Chemistry, MAT 114 College Algebra, MAT 120 Trigonometry, PHY 131 College Physics I.

**2**

Course meets Professional Education Requirements.

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
AEM 195	Computer Aided Drafting	3
AEM 201	Metallic Material Processes	3
AEM 371	Hydraulics and Pneumatics	3
AEM 383	CAD/CAM Integration	3
CON 121	Introduction to Construction	3
CON 201	Materials and Methods of Construction	3
CON 294	Construction Graphics	3
EET 252	Digital Electronics	3
NET 302	PC Troubleshooting & Construction	3
NET 303	LANs & PC Communications	3
TEC 161	Computer Applications in Technology	3
TEC 190	Technical Graphics	3
TEC 303	Problem Solving and Engineering	3
TEC 404	Princ. of Engr. and Tech.	3
Choose from three hours of the following:		3
AVN 150	Introduction to Aviation	
GCM 211	Graphic Communication	
TEC 102	Technology and Society	
TEC 141	Elementary Woodworking	
<b>Total Hours</b>		<b>45</b>

Graduates completing the Pre-Service Teacher Education concentration must have a minimum of 2000 clock hours of planned and supervised work experience in the occupation in which they will teach or a minimum of three years of approved work experience in the occupation in which they will teach. Students must also take the PRAXIS II Specialty Examination before graduation.

Candidates earning a degree that leads to pre-service teacher certification must take the PRAXIS Series (Professional Assessments for Beginning Teachers) and PLT (Principles of Learning and Teaching) exams as a requirement for graduation. Candidates are encouraged to review the schedule for PRAXIS and PLT registration deadlines prior to beginning the senior year. Specialty exams are required for each certification area sought and it may take more than one test date to complete all requirements. Candidates should confer with their education advisor/counselor to determine the most optimal time to take required exams.