The Technology & Engineering Education program is designed to prepare individuals to teach comprehensive, action-based technology & engineering education. Upon graduation, students will develop technical and teaching competencies to prepare them to teach high school students (grades nine through twelfth grades). Areas of content study include: communication technology; energy & power technology; materials & processes technology; and organization & administration skills.

Technology & Engineering Education students will...

- Experience real-world involvement in current Technology & Engineering Education programs, preparing them to become successful educators within the high school classroom and lab settings.
- Take hands-on courses that will prepare them to teach comprehensive, action-based Technology & Engineering Education courses. Examples of content courses include:
  - Electronics & Robotics Courses
  - Woodworking & Welding Courses
  - Construction Courses
  - Machining Courses
  - Engineering Technology Courses
  - Drafting Courses
  - Technical Graphics Courses
  - Content Technique Courses
  - Organization & Administration Courses

Career Planning
Career preparation is part of the mission of Southeast. In fact, more than 90% of Southeast students participate in internships, clinical opportunities, student teaching, research assistantships, and study abroad.

Professional career counselors are available for all students. The Office of Career Services in Academic Hall 057 can provide students with professional career counseling, resume critiques, practice interviews, job search strategies, career events, networking opportunities, and more.

Internship and Employment Opportunities of Recent Graduates
- With only two Technology & Engineering Education Programs in the state of Missouri, Southeast Missouri State University being one of these, placement rates are extremely high for graduating students. Technology & Engineering Education Teachers are in high demand in the state of Missouri.
- Prior to graduation, students will have numerous opportunities to observe current Technology & Engineering Education programs, allowing them to learn from professional educators within the middle school and high school classroom and lab settings.
- To prepare students for a successful career in Technology & Engineering Education, students will work side-by-side with professional educators in current Technology & Engineering Education programs, gaining valuable hands-on application processes within the middle school and high school classroom and lab settings.

Admission Requirements

Students graduating prior to spring 2017
- Cumulative 2.50 GPA
- Passage of CBASE or Missouri General Education Assessment (MoGEA)

Students graduating spring 2017 or later
- Cumulative 2.75 GPA
- Pass all sections of the Missouri General Education Assessment
  - Current Pass Scores for MoGEA
    - English - 186
    - Writing - 167
    - Math - 183
    - Science - 183
    - Social Studies - 183

All students must have:
- 42 hours of course credits
- Missouri Educator Profile (MEP) results on file
- Passage of all sections of the Missouri General Education Assessment (MoGEA) test.
- ED 280 Introduction to Teaching as a Profession with a grade of “B” or above
- PY222 Development of the Adolescent

Additional Information
The state of Missouri has high expectations for future educators. Students matriculating into education programs must meet all standards to be recommended for licensure following degree completion.
**Degree Map**

**Bachelor of Science in Education (BSED)**

This is a guide based on the 2015-2016 Undergraduate Bulletin and is subject to change. The time it takes to earn a degree will vary based on several factors such as dual enrollment, remediation, and summer enrollment. Students will meet with an academic advisor each semester and use DegreeWorks to monitor their individual progress.

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### CURRICULUM CHECKLIST

“Critical Courses” are italicized and bold. Data shows that students who have completed this course in the first two years and have earned the noted grade are most likely to complete this program of study.

**Education Courses – 47 Hours Required**

A grade of 'C' or better is required in education courses, with the exception of ED280 which requires a grade of 'B' or better.

- **ED280** Introduction to Education as a Profession (3)
- **EF400** Student Teaching Seminar (1)
- **EX380** Psychology and Education of the Exceptional Child (3)
- **PY222** Adolescent Psychology (3)
- **SE307** Reading & Writing in the Content Area (3)
- **SE316** Techniques of Teaching Technology Education (3)
- **SE350** Pedagogy 1: Principles of Effective Teaching (3)
- **SE355** Field Experience II (3)
- **SE365** Pedagogy 2: Interdisciplinary Methods and Technology (4)
- **SE380** Advanced Field Experience (3)
- **SE385** Field Experience III (3)
- **SE390** Instructional Interventions for Middle & Secondary Students with Special Literacy Needs (3)
- **SE465** Student Teaching (12)

**Technology & Engineering Education – 44 Hour Major, No Minor Required**

Required Courses:

- **AG 303** Agricultural Mechanization (3)
- **CH 181** Basic Principles of Chemistry (5)
- **CM 143** Construction Methods and Materials I (3)
- **CM 226** Residential Architectural Drafting and Design (3)
- **CM 243** Construction Methods and Materials II (3)
- **CM 320** Construction Cost Estimating (3)
- **CM 325** Drafting and Design (3)
- **ET 160** Basic Electricity & Electronics (3)
- **ET 304** Fundamentals of Programmable Logic Controllers (3)
- **GM 180** Introduction to Technical Graphics (3)
- **IE 401** Technology Education Management (3)
- **IE 593** Principles and Practices of Technical Subjects (3)
- **IE 596** Foundations of Career and Technical Education (3)
- **IE 599** Field Experience I (3)
- **MA 134** College Algebra (3)
- **MN 221** Solid Modeling & Rapid Prototyping (5)
- **MN 324** Mechanical Design Processes (3)
- **SE 307** Reading & Writing in the Content Area (3)
- **SE 316** Techniques of Teaching Technology Education (3)
- **SE 350** Pedagogy 1: Principles of Effective Teaching (3)
- **SE 355** Field Experience II (3)
- **SE 365** Pedagogy 2: Interdisciplinary Methods and Technology (4)
- **SE 380** Advanced Field Experience (3)
- **SE 385** Field Experience III (3)
- **SE 390** Instructional Interventions for Middle & Secondary Students with Special Literacy Needs (3)
- **SE 465** Student Teaching (12)

**University Studies Requirements (not already listed above):**

- UI100 First Year Seminar
- EN100 English Composition
- Artistic Expression
- Written Expression
- Oral Expression
- Literary Expression
- Living Systems
- Development of a Major Civilization
- Economic Systems
- Political Systems
- Social Systems
- two IU/UI3XX and one IU4XX

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### SAMPLE FOUR-YEAR PLAN

**Fall Semester** | **Spring Semester**
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**FIRST YEAR** | **SECOND YEAR**
UI100 | CM143
EN100 | CH181
IE596 | PY222
MA134 | Develop of a Major Civ
Social Systems | 3
Political Systems | 3
Written Expression | 3

<table>
<thead>
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<th>Total</th>
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**FIRST YEAR**:

- Milestone: Maintain 2.75 cumulative GPA; Maintain 3.0 GPA in Content & Education Courses (earn a “B” or higher in ED280); 42 hours completed; Pass MoGEA; Complete MEP; MoPTA

**SECOND YEAR**:

- Milestone: Maintain 2.75 cumulative GPA; Maintain 3.0 GPA in Content & Education Courses (earn a “B” or higher in ED280); 42 hours completed; Pass MoGEA; Complete MEP; MoPTA

**THIRD YEAR**:

- Milestone: Maintain 2.75 cumulative GPA; Maintain 3.0 GPA in Content & Education Courses; Maintain 3.0 GPA in Pedagogy; MoPTA

**FOURTH YEAR**:

- Milestone: All content and professional education coursework complete & passing score on MO Content Exam (before student teaching); 2.75 cumulative GPA, 3.0 GPA in Content & Education Courses; MoPTA; Successful completion of Student Teaching

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A “Milestone” signifies a significant stage for a student in the completion of a degree.

**Degree requirements for all students:** a minimum of 120 credit hours, completion of University Studies program, career proficiencies (CI001-004), Writing Proficiency Exam (WP003), and completion of the Measure of Academic Proficiency and Progress (MAPP) at the senior level.

Refer to the Undergraduate Bulletin or DegreeWorks for additional graduation requirements (i.e. minimum GPA and additional options) for your program of study. Students have the option of adding another area of concentration or a minor to this degree.

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**To learn more**
Office of Admissions
(573) 651-2590
admissions@semo.edu
www.semo.edu

**To explore**
Technology & Engineering Education
online, visit
www.semo.edu/costa

**For advising**
College of Science, Technology and Agriculture
Advising Center
(573) 651-5930

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Revised 8/3/2016