

Bachelor of Science in Education (BSED)**Technology & Engineering Education**

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. 100% of programs offer our students an internship, study-abroad program, clinical opportunity, student teaching or research internship.

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

Demonstrated Career Proficiency is a Requirement of all Southeast Students		
CL001	First Semester	Students connect academic career planning by completing an online career assessment
CL002	Second Semester	Students learn more about resources available to enhance academic and career planning
CL003	Junior Year	Students learn about continued career planning, job search strategies, and networking
CL004	Senior Year	Students learn about resume development, professional communication, interviewing, and transitioning to the first job from college

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

- 42 course hours completed
- 2.75 cumulative GPA
- Missouri Educator Profile (MEP) results on file with the Office of the Associate Dean of the College of Education
- Score of 220 or higher on all sections of the Missouri General Education Assessment (MoGEA)
- The following course requirements met
 - A grade of C or above in PY222 Development of the Adolescent
 - A grade of B or above in ED280 Introduction to Education as a Profession

Additional Information

The state of Missouri has high expectations for future educators. Students matriculating into education programs must meet the following standards to be recommended for licensure following degree completion.

Students graduating spring 2017 or later must maintain a 3.0 GPA in both content and pedagogy courses. In addition students must pass the Missouri Content Assessment Exam and the Missouri Pre-Service Teacher Assessment for recommendation for licensure. Students must also fulfill other assessments such as the Missouri Educator Profile and be cleared through a FBI background check.

Special Options with Secondary Education

Southeast offers a Master of Arts in Secondary Education.

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
Center for Academic Advising - North
(573) 651-5090
www.semo.edu/advising
advisingnorth@semo.edu

Bachelor of Science in Education (BSED)

This is a guide based on the 2017-2018 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.

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.

(Curriculum pending state approval)

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)
- ___ EX390 Psychology and Education of the Exceptional Child (3)
- ___ **PY222** **Adolescent Psychology** (3)
- ___ SE307 Content Literacy Methods for Middle and High School (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 Pedagogy 3: Advanced Methods of Middle and Secondary Teaching (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

15 hours of the major need to be 300-500 level courses
(A grade of 'C' or better is required in all courses within the major.)
Required Courses:

- ___ AG 303 Agricultural Mechanization (3)
- ___ CH 181 Basic Principles of Chemistry (5)
- ___ CM 143 Construction Methods and Materials I (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)
- ___ MA 134 College Algebra (3)
- ___ MN 120 Fundamentals of Engineering Design Processes (3)
- ___ MN 221 Solid Modeling & Rapid Prototyping (3)

Choose 6 Hours From:

- ___ CM 226 Residential Architectural Drafting and Design (3)
- ___ CM 243 Construction Methods and Materials II (3)
- ___ CM 320 Construction Cost Estimating (3)
- ___ ET 365 Industrial Electrical Power (3)
- ___ ET 426 Sustainable Energy Technologies (3)
- ___ GM 200 Vector and Bitmapped Graphics for Industry (3)
- ___ IE 590 Assessment for Career and Technical Education (3)
- ___ IE 592 Selection and Organization of Subject Matter (3)
- ___ IE 597 Coordination of Cooperative Education (3)
- ___ MN 170 Engineering Materials and Testing (3)
- ___ MN 203 Industrial Materials and Processes I (3)
- ___ MN 324 Mechanical Design Processes (3)

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

If you have dual credit or transfer credit, please visit our transfer course equivalencies guide at semo.edu/transfercredit.

SAMPLE FOUR-YEAR PLAN

	Fall Semester		Spring Semester	
	Course #	Hrs	Course #	Hrs
FIRST YEAR	UI100	3	MN120	3
	EN100	3	Content Elective	3
	IE596	3	Artistic Expression	3
	MA134	3	Living Systems	3
	Social Systems	3	Political Systems	3
				Written Expression
	Total	15	Total	18
Milestone: Maintain 2.75 cumulative GPA; Maintain 3.0 GPA in Content				

SECOND YEAR	CM143	3	AG303	3
	CH181	5	ED280	3
	PY222	3	ET160	3
	Develop of a Major Civ	3	Economic Systems	3
			Literary Expression	3
			Oral Expression	3
	Total	14	Total	18
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	EX390	3	ET304	3
	GM180	3	IE593	3
	IE401	3	SE307	3
	MN221	3	SE355	3
	SE350	3	SE365	4
	Total	15	Total	16
Milestone: Maintain 2.75 cumulative GPA; Maintain 3.0 GPA in Content & Education Courses; Maintain 3.0 GPA in Pedagogy; MoPTA				

FOURTH YEAR	SE316	3	EF400	1
	SE380	3	SE465	12
	SE385	3		
	SE390	3		
	Content elective	3		
	Total	15	Total	13
Milestone: All content & 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				

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, completion of 39 senior division hours (300-599), career proficiencies (CL001-004), Writing Proficiency Exam (WP003), and completion of the Measure of Academic Proficiency and Progress (MAP) at the senior level. Refer to the Undergraduate Bulletin or Degree Works for additional graduation requirements for your program.

Revised
2/21/2017