

**Technology Management: Construction Management & Design Option**

**Bachelor of Science (BS)**

**Construction Management & Design Option**

Technology management is a field of study designed to prepare technical and/or management-oriented professionals for employment in business, industry, education, and government. Technology management is primarily involved with the management, operation, and maintenance of complex technological systems while engineering and engineering technology are primarily involved with the design and installation of these systems.



**Technology management: construction management & design students will...**

- Be prepared for technically oriented, mid-management positions in the construction industry.
- Be prepared to communicate and function within the management, engineering, and production environments of the construction industry through incorporation of hands-on experience and management-related theory.
- Learn technical aspects of construction, including architectural drafting, and mechanics of structures and materials.
- Learn management aspects, including contracts and building codes, estimating, scheduling, and project administration.
- Be provided with practical applications of classroom experiences.

**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.

Demonstrated Career Proficiency is a Requirement of all Southeast Students		
CL001/CL002	First Semester	Complete the FOCUS2 assessment and develop a Career Action Plan.
CL003	Junior Year	Students gain information about career planning and job searching resources.
CL004	Senior Year	Students demonstrate advanced proficiency by identifying a position in their field, developing a cover letter, and tailoring a resume for the position. Materials are critiqued to ensure preparedness for a successful job search.

**Career Opportunities**

- Project Manager
- Architectural Drafter
- Construction Supervisor
- Estimator
- Planner and Scheduler

**Program emphases include**

- Computer-aided drafting, geometric construction, lettering, sketching, orthographic projection, auxiliary views, sections, and dimensioning.
- Detailed working drawings of residential and light commercial buildings, including foundations, floor plans, elevations, sections, details, electrical, plumbing, and heating plans.
- Required internship focused on technical and/or management aspects of the construction industry.
- Basic tools and equipment related to residential and light commercial construction.
- Software programs: AutoCAD, Architectural Desktop, Revit, Microsoft Project, project management and estimating software.

**Professional and Student Organizations**

The Construction Management Organization (CMo) offers professional development, social interaction, and leadership opportunities to the students in the construction management and design program of the Department of Industrial and Engineering Technology. CMo also sponsors teams to a student competition in the fall.

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

**To explore**  
the College of  
Science, Technology and  
Agriculture online, visit  
www.semo.edu/costa

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

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This is a guide based on the 2016-2017 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**
**Technology Management: Construction Management & Design Option - 88 Hours Required**

- \_\_\_ CH181/081/001 Basic Principles of Chemistry (5)
- \_\_\_ CM126 Computer Aided Architectural Drafting (3)
- \_\_\_ CM143 Construction Methods & Materials I (3)
- \_\_\_ CM226 Residential Architectural Drafting & Design (3)
- \_\_\_ CM243 Construction Methods and Materials II (3)
- \_\_\_ CM260 Computer Methods of Construction Managers (3)
- \_\_\_ CM310 Construction Building Codes (3)
- \_\_\_ CM315 Construction Contracts and Legal Issues (3)
- \_\_\_ CM320 Construction Cost Estimating (3)
- \_\_\_ CM322 Commercial Architectural Drafting & Design (3)
- \_\_\_ CM325 Building Mechanical & Electrical Systems (3)
- \_\_\_ CM330 Construction Planning and Scheduling (3)
- \_\_\_ CM343 Construction Surveying & Testing (3)
- \_\_\_ CM410 Construction Project Administration (3)
- \_\_\_ CM443 Construction Equipment Management (3)
- \_\_\_ IM102 Technical Communication (3)
- \_\_\_ IM301 Industrial Safety (3)
- \_\_\_ IM311 Statistical Process Control (3)
- \_\_\_ IM317 Internship (3)
- \_\_\_ IM419 Industrial Supervision (3)
- \_\_\_ MA133 Plane Trigonometry (3)
- \_\_\_ MA134 College Algebra (3)
- \_\_\_ MA139 Applied Calculus (3)
- \_\_\_ MN219 Statics and Strength of Materials (3)
- \_\_\_ MN220 Engineering Econ Analysis (3)
- \_\_\_ PH120/020 Introductory Physics I (5)
- \_\_\_ SW207 Understanding Cultural & Social Diversity (3)
- \_\_\_ UI410 Manufacturing Research in a Global Society (3)

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

UI100 First Year Seminar, EN100 English Composition, Artistic Expression, Written Expression, Oral Expression, Literary Expression, Behavioral Systems, Living Systems, Development of a Major Civilization, Political Systems, and two IU/UI3XX

**SAMPLE FOUR-YEAR PLAN**

	Fall Semester		Spring Semester	
	Course #	Hrs	Course #	Hrs
<b>FIRST YEAR</b>	UI100	3	CM243	3
	EN100	3	IM102	3
	CM126	3	MA133	3
	CM143	3	Oral Expression	3
	MA134	3	Written Expression	3
	<b>Total</b>	<b>15</b>	<b>Total</b>	<b>15</b>
<b>SECOND YEAR</b>	CH181/081/001	5	CM226	3
	CM320	3	CM310	3
	IM301	3	PH120/020	5
	MA139	3	SW207	3
	Artistic Expression	3	Literary Expression	3
	<b>Total</b>	<b>17</b>	<b>Total</b>	<b>17</b>
<b>THIRD YEAR</b>	CM260	3	CM315	3
	CM330	3	CM322	3
	MN220	3	CM343	3
	Behavioral Systems	3	IM317	3
	Political Systems	3	MN219	3
	<b>Total</b>	<b>15</b>	<b>Total</b>	<b>15</b>
<b>FOURTH YEAR</b>	CM325	3	CM410	3
	CM443	3	IM419	3
	IM311	3	UI410	3
	Living Systems	3	IU/UI3XX	3
	IU/UI3XX	3	Develop of a Major Civ	3
	<b>Total</b>	<b>15</b>	<b>Total</b>	<b>15</b>

**Degree requirements for all students:** a minimum of 120 credit hours, completion of University Studies program, career proficiencies (CL001-004), 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 course work) for your program of study.

Revised  
2/23/2016