

Technology Management: Sustainable Energy Systems Management Option

Bachelor of Science (BS)

Sustainable Energy Systems Management 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: sustainable energy systems management students will...

- Learn green energy technology skills targeted on energy efficiency and management, sustainable facilities planning and design, sustainable green construction, sustainable and green manufacturing, and renewable energy sources such as biomass, biofuels, solar power, and wind energy technologies.
- Expect to find employment in green economic sectors associated with energy management, energy efficiency, energy conservation, renewable energy generation, sustainable and green manufacturing, and green facilities planning and design.

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

Career Opportunities

- Energy Management
- Energy Efficiency
- Energy Conservation
- Green Facilities Planning and Design
- Renewable Energy Generation
- Sustainable and Green Manufacturing

Special Options with Technology Management

Southeast Missouri State University offers an accelerated master's degree for current Southeast technology management students. For more information, please see the MS: Technology Management degree map.

Southeast also offers a Master of Science in Technology Management.

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 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**TECHNOLOGY MANAGEMENT: SUSTAINABLE ENERGY SYSTEMS MANAGEMENT OPTION - 85 Hours****Required Courses:**

- ___ CH181/081/001 Basic Principles of Chemistry (5)
- ___ IM300 Technical Communication (3)
- ___ IM301 Industrial Safety (3)
- ___ IM311 Statistical Process Control (3)
- ___ IM419 Industrial Supervision (3)
- ___ IM506 Projects in IET (3)
- ___ MA133 Plane Trigonometry (3)
- ___ MA134 College Algebra (3)
- ___ MA139 Applied Calculus (3)
- ___ MN220 Engineering Econ Analysis (3)
- ___ MN260 Technical Computer Programming Applications (3)
- ___ PH120/020 Introductory Physics I (5)
- ___ SW207 Understanding Cultural & Social Diversity (3)
- ___ UI410 Manufacturing Research in a Global Society (3)

SUSTAINABLE ENERGY SYSTEMS MANAGEMENT OPTION – 42 hours

- ___ ET160 Electricity & Electronics (3)
- ___ ET365 Industrial Electrical Power (3)
- ___ ET426 Sustainable Energy Technology (3)
- ___ ET463 Photovoltaic System Analysis & Design (3)
- ___ ET470 Energy Management – Industrial Processes (3)
- ___ FM504 Facilities Management (3)
- ___ FM544 Sustainable Construction Materials & Technology (3)
- ___ FM554 Facilities Operation and Supervision (3)
- ___ FM564 Sustainable Facility Planning and Design (3)
- ___ FM565 Building Automation & Technology (3)
- ___ IM555 Sustainable & Green Manufacturing (3)
- ___ UI360 Recycling & Waste Management (3)

Choose one course:

- ___ EV453 Occupational Health (3)
- ___ UI386 Environmental Health (3)
- ___ UI387 Environmental Law & Public Policy (3)

University Studies Requirements (not already listed above)- 33 hours:

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

SAMPLE FOUR-YEAR PLAN

	Fall Semester		Spring Semester	
	Course #	Hrs	Course #	Hrs
FIRST YEAR	UI100	3	IM300	3
	EN100	3	IM301	3
	ET160	3	MA133	3
	MA134	3	Literary Expression	3
	Oral Expression	3	Written Expression	3
	Total	15	Total	15
SECOND YEAR	CH181/081/001	5	ET365	3
	MA139	3	PH120/020	5
	MN220	3	SW207	3
	Artistic Expression	2	Political Systems	3
	Behavioral Systems	3		
	Total	17	Total	14
THIRD YEAR	ET426	3	ET463	3
	FM504	3	FM544	3
	IM311	3	FM554	3
	MN260	3	IM419	3
	Living Systems	3	Elective	3
	Total	15	Total	15
FOURTH YEAR	FM564	3	ET470	3
	IM506	3	FM565	3
	IM555	3	UI387	3
	UI360	3	UI410	3
	Elective	2	Develop of a Major Civ	3
	Total	14	Total	15

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.

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

Revised
3/31/2017