

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. 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

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

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
College of Science, Technology and
Agriculture Advising Center
(573) 651-5930
www.semo.edu/costa/advising

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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.

CURRICULUM CHECKLIST
TECHNOLOGY MANAGEMENT: SUSTAINABLE ENERGY SYSTEMS MANAGEMENT OPTION - 85 Hours

- CH181/081/001 Basic Principles of Chemistry (5)
- 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 Energy Management (3)
- IM102 Technical Communication (3)
- IM301 Industrial Safety (3)
- IM311 Statistical Process Control (3)
- IM419 Industrial Supervision (3)
- IM455 Sustainable & Green Manufacturing (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)
- UI360 Recycling & Waste Management (3)
- UI410 Manufacturing Research in a Global Society (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):

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, one IU/UI3xx*

*if not taken above

SAMPLE FOUR-YEAR PLAN

▶	Fall Semester		Spring Semester	
	Course #	Hrs	Course #	Hrs
FIRST YEAR	UI100	3	IM102	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
	IM455	3	FM565	3
	IM506	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.

Revised
3/19/2015