MASTER OF SCIENCE IN ENGINEERING TECHNOLOGY AND MANAGEMENT (AS OF SPRING 2026)

The Master of Science in Engineering Technology and Management (MSETM) program is designed to prepare and further develop skills for engineers, technologists, and technical/industrial and engineering managers. The program is designed to prepare graduates holding a Bachelor of Science degree in engineering, engineering technology, industrial technologies, construction and safety management, and similar technologies for career advancement. The MSETM program in the Department of Engineering Technology aims to provide engineers and engineering technologists or similar area graduates with further applied research and management experience in engineering and technical studies. The program also aims to prepare graduates to design, build, test, operate and maintain a range of systems and processes. The curriculum offers both face-to-face and online classes, which are taught and supported by SHSU faculty. Thesis and non-thesis options are available.

Note: This proposed degree program is pending action from the Texas Higher Education Coordinating Board.

Students must meet the following requirements for admittance to the Master of Science in Engineering Technology and Management (MSETM) degree program:

1. Submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/beabearkat/graduate-journey/):

   - Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
   - Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
   - Official transcript(s) of all previous college work

2. A minimum undergraduate GPA of 3.0

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Code	Title	Hours
Master of Science in Engineering Technology and Management		
Required Courses		
AGED 5376	Personal Leadership & Organizational Dynamics	3
or BUAD 5310	Managerial Communication	
BANA 5368	Techniques Of Statistical Analysis	3
ETEC 5390	Directed Studies	6
or ETEC 6398	Thesis	
ETEC 6331	Plant Layout And Materials Handling	3
ETEC 6334	Materials Test Technology	3
ETEC 6335	Principles And Techniques Of Research In Industrial Education	3
MGMT 5320	Management of Innovation and Technology	3
SCMG 5318	Quality Management	3
Prescribed Electives		
Choose one from the following:		3
ETEC 5369	Special Topics in Advanced Industrial Technology	
GEOG 5371	Geographic Information Systems in Engergy-Related Fields	
GEOG 5373	Introduction to LiDAR & Radar	
Select one from the following:		3
SCMG 5323	Tools of Project Management	
SCMG 5330	Operations Planning & Control	
Total Hours		**33**

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The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Master of Science in Engineering Technology and Management is designed to provide graduates with the following marketable skills:

- Prepare for advanced engineering and technical positions and leadership roles to develop and implement problem-solving strategies that can be scaled across entire businesses.
- Work in industry, academia, and government in applied research, solution development, and management, and be confident in pursuing entrepreneurial ventures.
- Combine qualitative approaches and quantitative techniques to advance engineering and technology and technical management career.
- Develop applicable skills that translate to on-the-job success in fast-growing, high-paying engineering and technology fields.
- Gain analytics-driven decision-making strategies and skills based on sound numerical reasoning and measurable outcomes.

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