

Technology Management (TMGT) B.S.

The Bachelor of Science (B.S.) degree in Technology Management is an online and/or classroom taught program of study designed to integrate technology, applied engineering, project management, cost engineering, quality, construction management, business management, leadership and design into a variety of business, construction, and industrial careers. Graduates are suited for professional positions where the solving of complex technological problems; management of the environment, processes and workforce; controlling cost and resources; and ensuring a safe and ergonomically correct workplace are essential. Leadership, communication skills, group collaboration, managing and understanding cultural differences, construction, sustainability, increasing value, technological skills and the effective management of current and future global enterprises are emphasized throughout the program. Program graduates are prepared for and encouraged to continue their education after the awarding the Bachelor of Science degree by obtaining the Master of Science degree in Technology Management.

Student Outcomes for BS Technology Management Program

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. an ability to communicate effectively with a range of audiences
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

Core Curriculum Courses

See the Core Curriculum Requirements (<http://coursecatalog.tamuc.edu/undergrad/core-curriculum-requirements/>) 42

Required courses in the major

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| ENGR 110 | Introduction to Engineering and Technology | 3 |
| ENGR 1304 | Computer-Aided Design (CAD) | 3 |
| ENGR 113 | Product Design and Development | 3 |
| ENGR 2304 | Computing for Engineers | 3 |
| ENGR 2308 | Engineering Economic Analysis | 3 |
| TMGT 240 | Quality in Technology Management | 3 |
| TMGT 303 | Technical Communications | 3 |
| TMGT 340 | Managerial Statistics | 3 |
| TMGT 311 | Environmental and Safety Management | 3 |
| TMGT 335 | Managing Sustainability | 3 |
| TMGT 350 | Principles of Technology Management | 4 |
| TMGT 351 | GLB/Organizational Behavior | 3 |
| TMGT 352 | Principles of Cost Engineering | 3 |
| TMGT 411 | Risk Management | 3 |
| TMGT 439 | Construction Management | 3 |
| TMGT 444 | Decision Theory | 3 |
| TMGT 455 | Project Planning & Scheduling | 3 |
| TMGT 456 | Value Chain Control & Management | 3 |
| TMGT 457 | Decision Making for Emerging Technologies | 3 |
| TMGT 458 | Project Management | 3 |
| TMGT 471 | Technology Management Capstone Project | 4 |

Required Support Courses

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| ACCT 2301 | Principles of Acct I | 3 |
| MGT 301 | Legal Environment of Business | 3 |
| ECO 2301 | GLB/US-Prin Macro Economics (3 sch) * | |

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|-------------|--|---|
| or ECO 2302 | Principles of Micro Economics | |
| COSC 1436 | Introduction to Computer Science and Programming | 4 |
| MATH 2312 | Pre-Calculus | 3 |
| MATH 2413 | Calculus I (*4 sch) | |
| PHYS 1401 | College Physics I (4 sch) * | |
| PHYS 1402 | College Physics II (4 sch) * | |

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| Total Hours | | 120 |
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* These courses should be used to satisfy the Core Curriculum Requirements in Social and Behavioral Science, Natural Sciences, Mathematics and Component Area Option, respectively; otherwise, the credit hours required to earn the B.S. in TMGT will exceed 120.

A grade of "C" or higher must be earned in all courses in this Major.