

TECHNOLOGY MANAGEMENT - BS

Texas A&M University's Technology Management (TCMG) program focuses on the profound importance of connecting people, information, and technology from a multidisciplinary perspective for the betterment of society.

The students of the Technology Management program can expect to obtain integrated knowledge of human development, management, and technology competencies within a dynamic and rapidly evolving environment through innovative learning.

The Bachelor of Science degree in Technology Management will inculcate students with the knowledge, skills, abilities, and attitudes to leverage technology opportunities in all organizations.

The BS TCMG program will provide students with in-depth knowledge, hands-on experience, and practical skills of managing information technology and developing IT personnel to achieve organizational goals. Through our program, graduates will:

- Gain in-depth knowledge that covers the full spectrum of information technology, including database, networking, systems administration, data analytics, and information security;
- Obtain hands-on experience with a wide variety of technical tools commonly used in today's IT industry;
- Understand the human decision making process and managerial implications when interacting with information technology; and
- Learn practical skills of managing the various technology, human, and business components in an organizational environment to achieve goals.

Our strong internship program provides graduates with direct experience in the development and management of information technology in a real-world organizational environment. These internships are designed to match the backgrounds and career interests of students.

The program could lead to a wide variety of careers in IT/data analytic fields, such as:

- IT Support,
- Business Analyst,
- Data analyst,
- User Experience Engineer,
- Information Security Analyst

Program Requirements

First Year

Fall		Semester Credit Hours
ENGL 103 or ENGL 104	Introduction to Rhetoric and Composition or Composition and Rhetoric	3
KINE 120	The Science of Basic Health and Fitness	1
MATH 140	Mathematics for Business and Social Sciences	3
POLS 206	American National Government	3

American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history)	3
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Creative arts (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts) ¹	3
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Semester Credit Hours 16

Spring

MATH 142	Business Calculus	3
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POLS 207	State and Local Government	3
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American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history)	3
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Life and physical sciences (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#life-physical-sciences) ¹	4
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Social and behavioral sciences (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#social-behavioral-sciences) ¹	3
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Semester Credit Hours 16

Second Year

Fall

ACCT 209	Survey of Accounting Principles ²	3
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EHRD 203	Foundations of Human Resource Development ²	3
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ITSV 272	Foundations of Information Technology Management ²	3
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Language, philosophy and culture (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture) ¹	3
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Life and physical sciences (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#life-physical-sciences) ¹	4
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Semester Credit Hours 16

Spring

COMM 203	Public Speaking	3
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ENGL 210	Technical and Professional Writing ²	3
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ITSV 274	Foundations of Networking ²	3
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ISTM 209	Business Information Systems Concepts ²	3
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MGMT 209	Principles of Business Regulations and Law ²	3
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Semester Credit Hours 15

Third Year

Fall

EHRD 371	Applied Learning Principles ^{2,3}	3
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EHRD 391	Measurement and Evaluation in Human Resource Development and Technology Management ²	3
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EHRD 481	Career Development Seminar ²	3
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ITSV 303	Unix System Administration Practices ²	4
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MGMT 309	Survey of Management ²	3
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Semester Credit Hours 16

Spring

FINC 409	Survey of Finance Principles ²	3
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EHRD 402	Instructional Technology and Design ²	3
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ITSV 308	Cybersecurity and Digital Ethics ²	3
ITSV 316	Database Systems Administration and Application ²	4
Semester Credit Hours		13
Fourth Year		
Fall		
EHRD 490	Research in Human Resource Development/Technology Management ^{2,3,4}	3
ITSV 412	Contemporary Issues in Technology Management ^{2,4}	3
MKTG 409	Principles of Marketing ²	3
TCMG 476	Technical Network Capstone ²	4
General elective ⁵		3
Semester Credit Hours		16
Spring		
EHRD 405	Principles and Practices of Leadership in Human Resource Development and Technology Management ²	3
EHRD 477	Project Management in Organizations ²	3
TCMG 484	Professional Internship ^{2,4}	6
Semester Credit Hours		12
Total Semester Credit Hours		120

¹ To be selected from University Core Curriculum.

² Must make a grade of C or better.

³ Writing or Communication Intensive course requirement.

⁴ Professional Phase.

⁵ To be chosen in consultation with academic advisor, if necessary.

Students must have completed 60 hours to register for 300- to 400-level courses.

Three hours of International and Cultural Diversity (<http://catalog.tamu.edu/undergraduate/general-information/degree-information/international-cultural-diversity-requirements/>) and three hours of Cultural Discourse (<http://catalog.tamu.edu/undergraduate/general-information/degree-information/cultural-discourse-requirements/>) are required. Selection must be from courses on the approved list. Selection can be courses that also satisfy the requirement for social and behavioral sciences, creative arts, language, philosophy and culture, or electives.

Foreign Language Requirement - two years same foreign language in high school OR one full year (two semesters) of same foreign language in college.