

Bachelor of Applied Science in Technical Management

The Bachelor of Applied Science in Technical Management is designed to build upon students' prior education and work experience gained through a community college or military technical courses/occupations. This degree is intended to provide the knowledge and skills often required in management and supervisory roles.

This program will explore management theories, concepts, and practices necessary to organize, motivate, and lead human capital.

In the courses for this program, students will conduct management research focused on business problems, collect and analyze data, and communicate their findings by using qualitative and quantitative research methods. Students will also develop critical thinking, analysis, planning, and communication skills and examine complex organizational issues such as staffing, budgeting, strategic management, quality control, project management, supply chain management, marketing management, information systems, and operations.

In addition, students will identify and solve problems related to a specialty area using technical management, project management, technical research management, management information systems, and transportation security management and develop an analytical framework using a variety of approaches to apply leadership and management theory and practice to address the challenges of today's global organizations. Students will also develop the ability to evaluate technical management issues in the context of ethical, technological, structural, cultural, human, and environmental factors.

This program has been designed in consultation with industry business leaders and is accredited by the Accreditation Council for Business Schools and Programs (ACBSP (<http://www.acbsp.org>)® (<http://www.acbsp.org>)) (<http://www.acbsp.org>).

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Degree Program Objectives

In addition to the institutional and degree level learning objectives, graduates of this program are expected to achieve these learning outcomes:

- Conduct business problem focused management research, including collection and analysis of data, and communication of findings by using qualitative and quantitative research methods.
- Develop and foster critical thinking, analysis, planning, and communication skills.

- Examine complex organizational issues that include staffing, budgeting, strategic management, quality control, project management, supply chain management, marketing management, information systems, production and operations.
- Demonstrate a proficiency in identifying and solving problems related to the specialty area using Technical Management, Project Management, Technical Research Management, Management Information Systems, and Transportation Security Management.
- Develop an analytical framework using a variety of approaches to apply leadership and management theory and practice to address the challenges of global organizations in this century.
- Evaluate technical management issues in the context of ethical, technological, structural, cultural, human and environmental factors.

Degree at a Glance

Code	Title	Semester Hours
	General Education Requirements	30
	Major Required	27
	Select one of the following concentrations:	15
	Logistics and Supply Chain Management (p. 3)	
	Management of Information Systems (p. 3)	
	Project Management (p. 4)	
	Technical Management (p. 4)	
	Technical Resource Management (p. 4)	
	Final Program Requirements	3
	Elective Requirements	45
	Total Semester Hours	120

Degree Program Requirements

General Education Requirements (30 semester hours)

Code	Title	Semester Hours
Arts and Humanities (6 semester hours)		
Select 2 courses from the following: ¹		6
ARAB100	Arabic I	
ARAB101	Arabic II	
ARTH200	Art Appreciation	
ARTH240	Survey of Photography	
ARTH241	Film and Literature	
DSIN141	Image Enhancement using Adobe Photoshop®	
FREN100	French I	

FREN101	French II
GERM100	German I
GERM101	German II
JAPN100	Introduction to Japanese
LITR215	Literature of American Encounters, Revolution, and Rebellion
LITR218	From Abolition to #MeToo: Literature of the American Civil Rights Movement
LITR222	Pivotal Figures in Early British Literature
LITR225	British Literature from Wordsworth through the Wasteland
LITR231	Leadership in World Literature: Antiquity to the Early Modern Period
LITR233	Literature of the Newly Globalized World: The Individual's Struggle to Adapt
MUSI200	Music Appreciation
MUSI212	Jazz and Rock
MUSI250	World Music and Cultures
PHIL101	Introduction to Philosophy
PHIL110	Critical Thinking
PHIL200	Introduction to Ethics
PHIL202	Philosophy of Science
PORT100	Introduction to Brazilian Portuguese
RELS101	Introduction to the Study of Religion
RELS201	Introduction to World Religions
RUSS100	Russian I
SPAN100	Spanish I
SPAN101	Spanish II
STEM270	Thinking and Acting Ethically
Civics, Political and Social Sciences (6 semester hours)	
Select 1 course from the following: 3	
ECON101	Microeconomics
ECON102	Macroeconomics
Select 1 course from the following: ¹ 3	
ANTH100	Introduction to Anthropology
ANTH202	Introduction to Cultural Anthropology
CHFD220	Human Sexuality
COMM211	Social Media and Society
COMM240	Intercultural Communication
EDUC200	Humane Education: A Global Interdisciplinary Perspective
GEOG101	Introduction to Geography
HOSP110	Practical Food Safety and Awareness
IRLS210	International Relations I
LITR212	Forgotten America—Under Represented Cultures in American Literature

POLS101	Introduction to Political Science
POLS210	American Government I
PSYC101	Introduction to Psychology
RELS250	Death and Dying
RELS260	Race & Religion
RELS270	Hope and Resilience
SOCI111	Introduction to Sociology
SOCI212	Social Problems
SOCI220	American Popular Culture
STEM280	Exploring Society and Cultures via Science Fiction

Communication: Writing, Oral, and Multimedia (9 semester hours)

COMM120	Information and Digital Literacy	3
ENGL110	Making Writing Relevant	3
Select 1 course from the following:		3
COMM200	Public Speaking	
ENGL101	Proficiency in Writing	
ENGL115	Argumentation and Rhetoric	
ENGL210	Introduction to Literature	
ENGL220	Technical Writing	
ENGL221	Scientific Writing	
ENGL226	Effective Business Communication	
HRMT101	Human Relations Communication	
IRLS200	Information Literacy and Global Citizenship	
ITCC231	Introduction to Information Technology Writing	
MGMT100	Human Relations	

History (3 semester hours)

Select 1 course from the following:		3
HIST101	American History to 1877	
HIST102	American History since 1877	
HIST111	World Civilization before 1650	
HIST112	World Civilization since 1650	
HIST121	Western Civilization before The Thirty Years War	
HIST122	Western Civilization since The Thirty Years War	
HIST221	African-American History before 1877	
HIST222	African-American History since 1877	
HIST223	History of the American Indian	
HIST270	History of Science	
STEM185	The History and Context of STEM	

Mathematics and Applied Reasoning (3 semester hours)

MATH110	College Algebra	3
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Natural Sciences (3 semester hours)

Select 1 course from the following:		3
BIOL180	Introduction to Biology	

BIOL181	Introduction to Human Anatomy and Physiology
CHEM180	Introduction to Chemistry
ERSC180	Introduction to Meteorology
ERSC181	Introduction to Geology
EVSP180	Introduction to Environmental Science
PHYS180	Introduction to Physics
SPST180	Introduction to Astronomy
STEM100	Introduction to STEM Disciplines
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Total Semester Hours	30

¹ All literature courses require successful completion of ENGL101 - Proficiency in Writing or ENGL110 - Making Writing Relevant.

Major Required (27 semester hours)

Code	Title	Semester Hours
MGMT101	Principles of Supervision	3
BUSN100	Basics of Business	3
ACCT105	Accounting for Non Accounting Majors	3
BUSN250	Analytics I	3
EDMG220	Emergency Planning	3
MGMT310	Principles and Theory of Management	3
MGMT312	Leadership & Motivation	3
MATH302	Statistics	3
BUSN311	Law and Ethics in the Business Environment	3
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Total Semester Hours		27

Students must choose a concentration for this degree program and may select from a Concentration in Logistics and Supply Chain Management, Concentration in Management of Information Systems, Concentration in Project Management, Concentration in Technical Management, or Concentration in Technical Resource Management.

Concentration in Logistics and Supply Chain Management (15 semester hours)

The concentration in Logistics and Supply Chain Management introduces the student to the common logistical and supply chain management functions in an enterprise. Students will learn about a broad range of topics including logistics, demand, risk, and supply chain management.

Objectives

Upon successful completion of this concentration, the student will be able to:

- Evaluate the practices and processes required for successful logistics management.
- Develop strategic planning skills, using a broad range of logistics and supply chain management tools, to solve complex business problems.
- Analyze the critical role supply chain and logistics management play within organizations.

Concentration Requirements (15 semester hours)

Code	Title	Semester Hours
SCMG301	Supply Chain Risk Management	3
SCMG305	Global Demand Management	3
TLMT313	Supply Chain Management	3
TLMT341	Logistics Management	3
TLMT441	Advanced Business Logistics	3
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Total Semester Hours		15

Concentration in Management of Information Systems (15 semester hours)

The management of information systems concentration introduces the student to the common database management systems used in business and management. Students will study the common management information systems (MIS) architecture, databases, local area networks, and network security. Students will focus on management research, including collection and analysis of data, and communication of findings by using qualitative and quantitative research methods.

Objectives

Upon successful completion of this concentration, the student will be able to:

- Evaluate the most common management information systems.
- Develop a broad working knowledge of the most common local area networks, management information systems, and database systems.
- Analyze network and security threats.

Concentration Requirements (15 semester hours)

Code	Title	Semester Hours
BUSN350	Analytics II	3
INFO331	Management Information Systems	3
INFO222	Database Concepts	3
ISSC231	Networking Concepts	3

ISSC422	Information Security	3
Total Semester Hours		15

Concentration in Project Management (15 semester hours)

The project management concentration prepares the student to identify and solve technical management projects that rely upon systems and technology in the fast-changing business and management environments. The students will focus on project management, budget development, management information systems, Microsoft Project manager applications, and organizational behavior.

Objectives

Upon successful completion of this concentration, the student will be able to:

- Evaluate the practices and processes required to be a successful technical management project manager.
- Develop strategic planning skills, using a broad range of technical management tools, to solve complex project problems.
- Analyze the critical role project manager's play in the technical management workplace.

Concentration Requirements (15 semester hours)

Code	Title	Semester Hours
BUSN333	Project Management for Business Analysts	3
FINC405	Budget Development and Execution	3
INFO331	Management Information Systems	3
ITMG222	IT Project Management Using MS Project®	3
MGMT311	Organizational Behavior	3
Total Semester Hours		15

Concentration in Technical Management (15 semester hours)

The technical management concentration introduces the student to the systematic approach to solving complex business and management problems. Students will focus on management research, including collection and analysis of data, and communication of findings by using qualitative and quantitative research methods.

Objectives

Upon successful completion of this concentration, the student will be able to:

- Evaluate technical management systems.
- Develop a broad knowledge of technical management.
- Analyze technical management/business management problems.

Concentration Requirements (15 semester hours)

Code	Title	Semester Hours
FINC400	Principles of Financial Management	3
INFO331	Management Information Systems	3
ITMG222	IT Project Management Using MS Project®	3
MGMT410	Strategic Management	3
TLMT313	Supply Chain Management	3
Total Semester Hours		15

Concentration in Technical Resource Management (15 semester hours)

The technical resource management concentration introduces the student to the systematic approaches to solving technical systems problems. Students will learn to identify cost-savings, logical approaches to dealing with increasing business and management resource demands. Students will also focus on business critical thinking strategies, financial management, budget development, and human resource development.

Objectives

Upon successful completion of this concentration, the student will be able to:

- Evaluate organizational technical management problems.
- Develop proficiency in handling complex technical development concepts, to include the latest computer software tools and technologies.
- Analyze project scheduling and resource management functions.

Concentration Requirements (15 semester hours)

Code	Title	Semester Hours
BUSN333	Project Management for Business Analysts	3
BUSN410	Critical Thinking Strategies for Business Decisions	3
FINC400	Principles of Financial Management	3
FINC405	Budget Development and Execution	3
HRMT407	Human Resource Management	3
Total Semester Hours		15

Final Program Requirements (3 semester hours)

Code	Title	Semester Hours
MGMT495	Senior Seminar in Management (to be taken as the last course before graduation) ¹	3
Total Semester Hours		3

¹ Prerequisite: Senior Standing and completion of all major courses prior to enrollment.

Elective Requirements (45 semester hours)

Code	Title	Semester Hours
Select any courses not already taken to fulfill the requirements listed above. Credits applied toward a minor or certificate in an unrelated field may be used to fulfill elective credit for the major.		45
Total Semester Hours		45