

# Associate of Applied Science in Technical Management

The Associate of Applied Science in Technical Management is designed to enable students to build upon prior education and work experience gained through a community college or military technical courses/occupations. In this AAS degree, students will explore management, business, and planning functions through an analytical approach. Students will also focus on development concepts and the latest technologies to improve their technical expertise in design and systems integration.

In the courses for this associate program, students will examine leadership and management motivational models, theories, and concepts as they relate to developing a healthy culture and successful workforce within a technical environment. Students will also analyze and interpret data obtained via analytical approaches.

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>).

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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:

- Examine leadership and management motivational models, theories, and concepts as they relate to developing a healthy culture and successful workforce within a technical environment.
- Evaluate complex developmental concepts and latest technologies.
- Develop technical expertise in design, development, and integration of systems.
- Analyze and interpret data obtained via analytical approaches.

<sup>1</sup> Students enrolled in the Associate of Applied Science in Technical Management program will have to apply for the awarding of the Certificate in Technical Management

## Degree at a Glance

Code	Title	Semester Hours
	General Education Requirements	15
	Major Required	16

Select one of the following concentrations:	12
General Concentration (p. 2)	
Utilities Management (p. 2)	
Elective Requirements	17
Total Semester Hours	60

## Degree Program Requirements

### General Education Requirements (15 semester hours)

Code	Title	Semester Hours
<b>Arts and Humanities (3 semester hours)<sup>1</sup></b>		
PHIL110	Critical Thinking	3
<b>Civics, Political and Social Sciences (3 semester hours)</b>		
Select 1 course from the following:		3
POLS210	American Government I (General Concentration)	
POLS101	Introduction to Political Science (Utilities Management Concentration)	
<b>Communication: Writing, Oral, and Multimedia (3 semester hours)</b>		
ENGL110	Making Writing Relevant	3
<b>History (3 semester hours)</b>		
HIST270	History of Science	3
<b>Mathematics and Applied Reasoning (3 semester hours)</b>		
Select 1 course from the following:		3
MATH110	College Algebra (General Concentration)	
MATH125	Math for Liberal Arts Majors (Utilities Management Concentration)	
Total Semester Hours		15

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

### Major Required (16 semester hours)

Code	Title	Semester Hours
BUSN100	Basics of Business	3
MGMT101	Principles of Supervision	3
ACCT105	Accounting for Non Accounting Majors	3
EDMG220	Emergency Planning	3
SCIN140	Introduction to Environmental Science with Lab	4
Total Semester Hours		16

## General Concentration (12 semester hours)

The General concentration for this degree is designed to help technical trade students acquire the knowledge that is often needed when transitioning from a field lead to a front-line supervisor.

### Objectives

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

- Analyze and interpret data obtained using analytical approaches.
- Compare various theories in management, leadership, and motivation.
- Define features of the legal environment applicable to supervisory roles in the technical field.

Code	Title	Semester Hours
MGMT310	Principles and Theory of Management	3
MGMT312	Leadership & Motivation	3
BUSN250	Analytics I	3
BUSN311	Law and Ethics in the Business Environment	3
Total Semester Hours		12

## Utilities Management Concentration (12 semester hours)

The Utilities Management concentration is designed to support those in career technical trades transition from a field lead to a frontline supervisor. Students will take courses in project management, ethics, analytics, and budgeting.

### Objectives

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

- Examine how to motivate and lead in a utility's environment using management models, theories, and concepts.
- Analyze and interpret data from the utilities sector using analytical approaches.
- Explain ethical situations and solutions related to utilities management.

## Concentration Requirements (12 semester hours)

Code	Title	Semester Hours
POLS301	Ethics in Politics	3
BUSN250	Analytics I	3
BUSN333	Project Management for Business Analysts	3
FINC405	Budget Development and Execution	3
Total Semester Hours		12

## Elective Requirements (17 semester hours)

Code	Title	Semester Hours
Select any courses comprised of lower (100-200) level courses not already taken to fulfill the requirements listed above. Additional general education courses may be taken to fulfill elective requirements.		17
Total Semester Hours		17