

# BACHELOR OF APPLIED TECHNOLOGY IN OPERATIONS MANAGEMENT

This program is a Selective Program. Application requirements are included in the description below.

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The Bachelor of Applied Technology degree (BAT) in Operations Management (OPMG) will educate, train, and develop successful supervisors who will be prepared to utilize technology to create a competitive advantage for their enterprise. Coursework is balanced between practical training and working with real-life projects that enhance the educational experiences and employment potential for students. The breadth of the coursework enables each graduate to lead and manage by utilizing a wide variety of business, finance, technology and human resource development skills. Interactions with business leaders will provide graduates exposure to the real world and an opportunity to network.

Graduates are educated in the fundamentals of business management, finance, information technology and manufacturing. The curriculum provides a broad training experience through general education courses in a variety of disciplines, core program courses in operations management, elective courses with specialization options and specialized projects and seminars that provide a window into the real world. The choice of electives permits students to tailor their studies toward their own careers and personal goals.

## Application Requirements

1. Demonstrate proficiency in state mandated general knowledge content through approved means; i.e., Texas Success Initiatives (TSI), with program specific exemptions accepted.
2. Applicants are eligible for admission if they meet one of the following criteria:
  - a. An ACT Composite of 19 (minimum of 16 in all areas) or above (SAT 910 or above).
  - b. Applicants with prior college level coursework, or an AAS, AA or AS degree, must have a minimum cumulative GPA of 2.5 or provide evidence of extenuating circumstances, to the Dean for Math, Science & Bachelor Programs, for waiving the requirement.
  - c. Provisional Acceptance, for students scoring a minimum ACT Composite of 15 (SAT 740 or above) or minimum cumulative GPA of 2.25 may be granted by the Dean for Math, Science & Bachelor Programs upon completion of a personal interview with the prospective applicant.

## Degree Completion Requirements Minimum Completion Requirements

- Complete the appropriate course of study for a Bachelor of Applied Technology program as specified in the College catalog. Developmental or other non-credit coursework does not apply toward graduation requirements.
- South Texas College will accept a maximum of 90 credit hours of applicable course work transferred from another accredited college

or university toward a Bachelor of Applied Technology degree granted by South Texas College.

- Completion of at least 30 credit hours in 3000 level courses or higher of which at least 24 credit hours must be completed at South Texas College.
- Maintain a minimum average of "C" (2.0 GPA).
- Pay all debts to the College prior to graduation.

## Degree Components

General Education Courses	42
Foundational Courses	10
Elective Support Courses	38
Operations Management Required Courses	30
<b>Total Credit Hours</b>	<b>120</b>

## Lower Division-Requirements

### South Texas College Core Curriculum (42 Credit Hours)

The student is required to take 42 credit hours from the South Texas College Core Curriculum. Students that declare the Bachelor of Applied Technology in Operations Management degree have access to the competency-based format of the core curriculum. Operations Management majors are recommended to take ECON 2301 Principles of Economics I - Macro to fulfill the Social & Behavioral Science component of the Core Curriculum. Operations Management majors must take MATH 1414 College Algebra to fulfill the Mathematics component of the Core Curriculum.

Students that begin the Bachelor of Applied Technology Program upper-level coursework upon completion of an approved Associate of Applied Science degree must complete an additional 27 general education credit hours in order to fulfill the forty-two (42) credit hour general education Core Curriculum required at South Texas College. However, students that completed an Associate of Arts or Associate of Science degree will have fulfilled the core curriculum requirement.

### Foundational & Elective Support Courses (48 Credit Hours)

The student is required to complete 48 semester credit hours of technical specialty coursework. The 48 semester credit hours must include the three (3) foundational courses (10 credit hours) listed below. Students entering the Bachelor of Applied Technology in Operations Management program with a completed Associate's degree may apply their coursework toward the remaining elective support courses. The student may also select from the list of Operations Management electives to fulfill the remaining elective support courses.

### Foundational Courses (10 Credit Hours)

HRPO 2301	Human Resources Management	3
ACCT 2401	Principles of Financial Accounting	4
ECON 2302	Principles of Economics II - Micro	3
<b>Total Credit Hours</b>		<b>10</b>

### \*Operations Management Elective Courses

OPMG 3303	Managerial Rapport and Documentation	3
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OPMG 3311	Technology in Enterprise Management	3
OPMG 3321	Supply Chain Management	3
OPMG 3337	Decision Making Economics	3
OPMG 3340	Quality Assurance, Management and Improvement	3
OPMG 4341	Purchasing and Supply Management	3
OPMG 4342	Supply Chain Security	3
OPMG 4321	Project Management Seminar	3
OPMG 3322	Logistics Management	3
OPMG 4355	The Manager and Civic Engagement Seminar	3

## Upper-Division Requirements

### Prerequisites for Upper-Level Coursework

- Junior Standing:
  - Completion of an Associate of Applied Science (A.A.S.) degree or completion of sixty (60) credit hours from a regionally accredited institution; or
  - Completion of an Associate of Arts (A.A.) or Associate of Science (AS) degree from a regionally accredited institution.
- Senior Standing:
  - A minimum of ninety (90) credit hours from a regionally accredited institution.
- A minimum GPA of 2.5 in previous coursework.

### \*Required Operations Management Major Courses (30 Credit Hours)

The upper-division Operations Management major courses educate students in the fundamentals of business management, finance, information technology, and manufacturing, while building upon skills already learned in the technical support areas. The curriculum design provides a broad training experience through courses in a variety of disciplines. Core program courses in operations management plus elective courses and specialized projects and seminars provide a window into the real workplace. All upper-division required courses are offered 100% online and competency-based delivery format. \*Capstone: Operations Management is not offered in competency-based delivery format.

OPMG 3302	Business and Economic Statistics	3
OPMG 3305	Organizational Theory and Practice	3
OPMG 3310	Decision Making	3
OPMG 3336	Management and Law	3
OPMG 3338	Accounting for Managers	3
OPMG 4304	Safety and Risk Management	3
OPMG 4312	Resource Management	3
OPMG 4320	Organizational Design and Management Seminar	3
OPMG 4353	International Business Seminar	3
OPMG 4347	Capstone: Operations Management	3
<b>Total Credit Hours</b>		<b>30</b>

\*Revised course subject code pending THECB approval.

## Program Learning Outcomes

Through the Bachelor of Applied Technology in Operations Management Program Learning Outcomes, the student should demonstrate the ability to:

- Create, organize, lead a teamwork group in charge of an organizational case study. (Assessment in OPMG 4320)
- Search, analyze, compile data and information to report the strength, weaknesses, stability, or concerns of a local organization. (Assessment in OPMG 4320)
- Design a business model for a small organization making explicit the rationale for the decisions implied in the design. (Assessment in OPMG 4347)
- Develop a business plan incorporating specific documentation concerning legal and ethical boundaries. (Assessment in OPMG 4342)
- Execution of specific project using Project Management techniques. (Assessment in OPMG 4347)

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## Four Year Recommended Course Sequence

Course	Title	Credit Hours
<b>First Year</b>		
<b>Fall</b>		
ENGL 1301	Composition I	3
Component Area Option - Core Curriculum		3
HIST 1301	United States History I	3
Language, Philosophy & Culture Elective - Core Curriculum		3
HRPO 2301	Human Resources Management	3
<b>Credit Hours</b>		<b>15</b>
<b>Spring</b>		
ENGL 1302	Composition II - Rhetoric	3
HIST 1302	United States History II	3
Select one of the following:		4
MATH 1414	College Algebra	
MATH 2412	Pre-Calculus Math	
MATH 2413	Calculus I	
ACCT 2401	Principles of Financial Accounting	4
<b>Credit Hours</b>		<b>14</b>
<b>Second Year</b>		
<b>Fall</b>		
GOVT 2305	Federal Government	3
Life and Physical Sciences Elective - Core Curriculum		4
Creative Arts Elective - Core Curriculum		3
Elective Support Course		3
Elective Support Course		3
<b>Credit Hours</b>		<b>16</b>
<b>Spring</b>		
Social and Behavioral Sciences Elective - Core Curriculum		3
ECON 2301	Principles of Economics I - Macro (Recommended)	
GOVT 2306	Texas Government	3
Life and Physical Sciences Elective - Core Curriculum		4
Elective Support Course		3
Elective Support Course		3
<b>Credit Hours</b>		<b>16</b>

**Third Year****Fall**

ECON 2302	Principles of Economics II - Micro	3
	Elective Support Course	3
	Elective Support Course	3
	Elective Support Course	3
OPMG 3302	Business and Economic Statistics	3
<b>Credit Hours</b>		<b>15</b>

**Spring**

	Elective Support Course	3
OPMG 3305	Organizational Theory and Practice	3
OPMG 3310	Decision Making	3
OPMG 3336	Management and Law	3
OPMG 3338	Accounting for Managers	3
<b>Credit Hours</b>		<b>15</b>

**Fourth Year****Fall**

OPMG 4304	Safety and Risk Management	3
	Elective Support Course	4
	Elective Support Course	4
	Elective Support Course	3
	Elective Support Course	3
<b>Credit Hours</b>		<b>17</b>

**Spring**

OPMG 4312	Resource Management	3
OPMG 4320	Organizational Design and Management Seminar	3
OPMG 4353	International Business Seminar	3
OPMG 4347	Capstone: Operations Management	3
<b>Credit Hours</b>		<b>12</b>
<b>Total Credit Hours</b>		<b>120</b>

\*Revised course subject codes pending THECB approval.