

# Baccalaureate Degrees

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# Technology Management

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## **BACHELOR OF APPLIED TECHNOLOGY IN TECHNOLOGY MANAGEMENT**

The Bachelor of Applied Technology Degree (B.A.T.) in Technology Management 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 technology 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.

### **Bachelor of Applied Technology**

#### **Admission Requirements**

Admission to the Bachelor of Applied Technology Program requires the following:

- A. All applicants must meet general admission requirements to South Texas College.
- B. Demonstrate proficiency in state-mandated general knowledge content through approved means; i.e., Texas Higher Education Assessment (THEA), with program specific exemptions accepted.

- C. 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 course work must have a minimum cumulative GPA of 2.5 or provide evidence of extenuating circumstances, to the Associate Dean for Bachelor Degree Programs and University Relations, 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 Associate Dean for Bachelor Degree Programs and University Relations upon completion of a personal interview with the prospective applicant.
- D. Submit a completed Bachelor of Applied Technology program application.

## **DEGREE COMPLETION REQUIREMENTS**

### ***Minimum Completion Requirements***

- Satisfactory completion of a minimum of 127 semester credit hours;
- South Texas College will accept a maximum of 60 semester credits of applicable course work transferred from another accredited college or university toward a Bachelor of Applied Technology Degree granted by STC.
- Completion of at least 46 credit hours in 3000 level courses or higher of which at least 18 must be completed at STC;
- Completion of all program of study requirements with a minimum 2.0 grade point average on all coursework attempted (4.0 scale).

## **DEGREE COMPONENTS**

|  |           |
|--|-----------|
| General Education Courses.....               | 45-48 SCH |
| Technical Support Areas.....                 | 36 SCH    |
| Technology Management Required Courses ..... | 34 SCH    |
| Technology Management Electives .....        | 12 SCH    |

**LOWER DIVISION REQUIREMENTS**

**STC CORE CURRICULUM 45 CREDITS**

The student is required to take 45 semester credit hours from the STC Core Curriculum listed on page \*\*\* in the Catalog. **Technology Management majors must take ECON 2301-Principles of Economics I - MACRO to fulfill to Social/Behavioral Science component of the Core Curriculum.**

Students beginning the Bachelor of Applied Technology Program upper-level coursework upon completion of an approved Associate of Applied Science (A.A.S.) degree must complete an additional 30 general education credit hours in order to fulfill the forty-five (45) credit hour general education Core Curriculum required at South Texas College.

Students beginning the Bachelor of Applied Technology Program upper-level coursework after completion of an Associate of Arts or Associate of Science degree will have fulfilled the Core Curriculum requirement for bachelor degree graduates.

**TECHNICAL SUPPORT AREAS**

(36 Semester Credit Hours)

The student is required to complete 36 semester credit hours of technical specialty coursework. Please see the department for specific coursework to meet this requirement.

**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 with at least fifteen (15) credit hours in general education coursework; or
- Completion of an Associate of Arts (A.A.) or Associate of Science (A.S.) Degree from a regionally accredited institution.

• **Senior Standing**

- A minimum of ninety (90) credit hours from a regionally accredited institution with at least twenty-one (21) credit hours in upper-level coursework.
- **A minimum GPA of 2.5 in previous coursework.**

**Required Technology Management Major Courses (34 hours)**

The upper-division Technology 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 general education courses in a variety of disciplines, core program courses in technology 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, giving them more opportunity for advancement and promotion to supervisory or managerial positions within their chosen occupational field.

| Course Number | Course Title                                | Semester Credit Hours |
|---------------|---|-----------------------|
| TMGT3302      | Business and Economic Statistics .....      | 3                     |
| TMGT 3303     | Communications for Technical Managers ..... | 3                     |
| TMGT3336      | Legal Issues for Technical Managers .....   | 3                     |
| TMGT3310      | Decision Making .....                       | 3                     |
| TMGT3411      | Technology in Enterprise Management .....   | 4                     |
| TMGT 3312     | Resource Management .....                   | 3                     |
| TMGT 3305     | Organizational Theory and Practice .....    | 3                     |
| TMGT 4304     | Risk Management.....                        | 3                     |
| TMGT3337      | Economics for Technical Managers .....      | 3                     |
| TMGT 3338     | Accounting for Technical Managers .....     | 3                     |

TMGT 4320 Organizational Management and Design Seminar.....3

**Technology Management Elective Courses**  
(12 hours selected from the following list)

| Course Number | Course Title   | Semester | Credit Hours |
|---------------|--|----------|--------------|
| TMGT 3353     | International Business.....                                |          | 3            |
| TMGT 3358     | Network Security Management ..                             |          | 3            |
| TMGT 4303     | Electronic Commerce Systems ...                            |          | 3            |
| TMGT4351      | Database Administration and Integration.....               |          | 3            |
| TMGT 4341     | Purchasing and Supply Management .....                     |          | 3            |
| TMGT 3340     | Quality Assurance, Management and Improvement.....         |          | 3            |
| TMGT 4347     | CAPSTONE: Production and Inventory Planning & Control..... |          | 3            |
| TMGT 4396     | CAPSTONE: Managing Technology Projects .....               |          | 3            |

*(Note: From the list of elective courses, students must take either TMGT 4347 or TMGT 4396 in order to fulfill the CAPSTONE requirement.)*

Through the Bachelor of Applied Technology in Technology Management, outcomes the student will be able to demonstrate are to:

- supervise and manage the financial operations of a business (TMGT 3338);
- utilize management and motivational theories to enhance the performance of employees and work-teams (TMGT 3305);
- use project and quality management strategies to successfully manage and secure organizational resources (TMGT 3312);
- apply oral and written communication skills and leverage technology to enhance communications (TMGT 3303);
- manage the organization or the business unit within legal and ethical boundaries (TMGT 3336);
- employ creative and critical thinking processes to resolve problems of the business unit (TMGT 3310);
- use appropriate electronic commerce strategies to enhance profitability of the organization (TMGT 3411);

- exhibit analytical thought, informed judgment, ethical behavior, and an appreciation for diversity (TMGT 4320);
- utilize appropriate information technology systems to enhance organizational performance (TMGT 3302);
- understand the challenges involved in conducting international business and its impact on the future growth of the organization (TMGT 3337); and
- obtain hands-on training and apply concepts and theories in a workplace setting (TMGT 4396 or TMGT 4347).

For more information regarding program requirements, please call 872-2047.