

# BACHELOR OF APPLIED TECHNOLOGY IN TECHNOLOGY MANAGEMENT

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

## TSI LIABLE

The Bachelor of Applied Technology degree (BAT) 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.

## Application Requirements

- A. Demonstrate proficiency in state mandated general knowledge content through approved means; i.e., Texas Success Initiatives (TSI), with program specific exemptions accepted.
- B. 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 STC.

- Completion of at least 30 credit hours in 3000 level courses or higher of which at least 18 must be completed at STC;
- Maintain a minimum average of "C" (2.0 GPA) for all courses in the area of specialization and a minimum overall cumulative average of "C" (2.0 GPA in all other courses).
- Pay all debts to the College prior to graduation.

## Degree Components

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

## Lower Division-Requirements

### STC Core Curriculum (42 Credit Hours)

The student is required to take 42 credit hours from the STC Core Curriculum. Technology Management majors are recommended to take ECON 2301 Principles of Economics I - Macro to fulfill the Social & Behavioral Science component of the Core Curriculum. Technology Management majors must take MATH 1414 College Algebra to fulfill the Mathematics 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 the forty-two (42) credit hours in general education Core Curriculum required for bachelor degree graduates.

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.

### Foundational Courses & 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 3 foundational courses (10 credit hours) listed below. Students entering the BAT-TMGT 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 Technology 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> |

#### Technology Management Elective Courses

|           |                                      |   |
|-----------|--------------------------------------|---|
| TMGT 3303 | Managerial Rapport and Documentation | 3 |
| TMGT 3311 | Technology in Enterprise Management  | 3 |
| TMGT 3321 | Supply Chain Management              | 3 |
| TMGT 3337 | Decision Making Economics            | 3 |

|                                |   |   |
|--------------------------------|---|---|
| TMGT 3340                      | Quality Assurance, Management and Improvement | 3 |
| TMGT 4341                      | Purchasing and Supply Management              | 3 |
| TMGT 4342                      | Supply Chain Security                         | 3 |
| Transferred Upper Level Course |   | 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 with at least fifteen (15) credit hours in general education coursework; 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 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 (30 Credit 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 courses in a variety of disciplines. Core program courses in technology management plus elective courses for specialization options and specialized projects and seminars provide a window into the real workplace.

|                    |  |    |
|--------------------|--|----|
| TMGT 3302          | Business and Economic Statistics             | 3  |
| TMGT 3305          | Organizational Theory and Practice           | 3  |
| TMGT 3310          | Decision Making                              | 3  |
| TMGT 3336          | Management and Law                           | 3  |
| TMGT 3338          | Accounting for Managers                      | 3  |
| TMGT 4304          | Safety and Risk Management                   | 3  |
| TMGT 4312          | Resource Management                          | 3  |
| TMGT 4320          | Organizational Design and Management Seminar | 3  |
| TMGT 4353          | International Business Seminar               | 3  |
| TMGT 4347          | Capstone: Technology Management Practicum    | 3  |
| Total Credit Hours |  | 30 |

## Specializations

Students may use a combination of required upper level courses and elective courses for a degree plan completion with specialization.

### Supply Chain Management

|           |                                  |   |
|-----------|----------------------------------|---|
| TMGT 3321 | Supply Chain Management          | 3 |
| TMGT 4341 | Purchasing and Supply Management | 3 |
| TMGT 4342 | Supply Chain Security            | 3 |

|           |                                |   |
|-----------|--------------------------------|---|
| TMGT 4353 | International Business Seminar | 3 |
|-----------|--------------------------------|---|

### Purchasing Management

|           |                                  |   |
|-----------|----------------------------------|---|
| TMGT 3321 | Supply Chain Management          | 3 |
| TMGT 4341 | Purchasing and Supply Management | 3 |
| TMGT 4342 | Supply Chain Security            | 3 |
| TMGT 4353 | International Business Seminar   | 3 |

### Operations Management

|           |   |   |
|-----------|---|---|
| TMGT 3311 | Technology in Enterprise Management           | 3 |
| TMGT 3340 | Quality Assurance, Management and Improvement | 3 |
| TMGT 4312 | Resource Management                           | 3 |
| TMGT 4320 | Organizational Design and Management Seminar  | 3 |

### Organization Management

|           |  |   |
|-----------|--|---|
| TMGT 3305 | Organizational Theory and Practice           | 3 |
| TMGT 4312 | Resource Management                          | 3 |
| TMGT 4320 | Organizational Design and Management Seminar | 3 |
| TMGT 4353 | International Business Seminar               | 3 |

### Project Management

|           |  |   |
|-----------|--|---|
| TMGT 3311 | Technology in Enterprise Management          | 3 |
| TMGT 3337 | Decision Making Economics                    | 3 |
| TMGT 4312 | Resource Management                          | 3 |
| TMGT 4320 | Organizational Design and Management Seminar | 3 |

#### TSI LIABLE

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

1. Create, organize, lead a teamwork group in charge of an organizational case study.
2. Search, analyze, compile data and information to report the status of an organization.
3. Design a business model with explicit rationale for the decisions implied in the model.
4. Elaboration of a business plan incorporating specific documentation concerning legal and ethical boundaries.
5. Execution of specific project using Project Management techniques.

#### TSI LIABLE

| 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            |
| Credit Hours  |   | 15           |
| <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            |
| Credit Hours  |   | 14           |
| <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            |
| Credit Hours  |   | 16           |
| <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            |
| Credit Hours  |   | 16           |
| <b>Third Year</b>   |   |              |
| <b>Fall</b>   |   |              |
| ECON 2302   | Principles of Economics II - Micro                | 3            |
| Elective Support Course                                   |   | 3            |
| Elective Support Course                                   |   | 3            |
| Elective Support Course                                   |   | 3            |
| TMGT 3302   | Business and Economic Statistics                  | 3            |
| Credit Hours  |   | 15           |
| <b>Spring</b>   |   |              |
| Elective Support Course                                   |   | 3            |
| TMGT 3305   | Organizational Theory and Practice                | 3            |
| TMGT 3310   | Decision Making                                   | 3            |
| TMGT 3336   | Management and Law                                | 3            |
| TMGT 3338   | Accounting for Managers                           | 3            |
| Credit Hours  |   | 15           |
| <b>Fourth Year</b>  |   |              |
| <b>Fall</b>   |   |              |
| TMGT 4304   | Safety and Risk Management                        | 3            |
| Elective Support Course                                   |   | 4            |
| Elective Support Course                                   |   | 4            |
| Elective Support Course                                   |   | 3            |
| Elective Support Course                                   |   | 3            |
| Credit Hours  |   | 17           |
| <b>Spring</b>   |   |              |
| TMGT 4312   | Resource Management                               | 3            |
| TMGT 4320   | Organizational Design and Management Seminar      | 3            |
| TMGT 4353   | International Business Seminar                    | 3            |

|                    |   |     |
|--------------------|---|-----|
| TMGT 4347          | Capstone: Technology Management Practicum | 3   |
| Credit Hours       |   | 12  |
| Total Credit Hours |   | 120 |