

HERZING

BACHELOR OF SCIENCE IN TECHNOLOGY MANAGEMENT WITH A MINOR IN ELECTRONICS ENGINEERING TECHNOLOGY (BSTMEET)

PROGRAM DESCRIPTION

This program of study is designed to provide students with foundation skills and knowledge in various technical areas (e.g., computer science, computer-aided drafting, or electronics). In addition, this program is further designed to teach the student the necessary business skills and academic knowledge for entry-level management positions in a technical environment.

PROGRAM OBJECTIVES

Upon completion of this program students should be able to demonstrate the ability to participate as a team member or to manage projects that:

1. Solve problems in an information technology business environment.
2. Integrate technological solutions into the business management environment.
3. Manage the creation of high-level language programs in support of organizational needs.
4. Supervise the design, maintenance, and recovery of relational database systems.
5. Communicate effectively to both individuals and groups, orally and in writing, using industry standard software.
6. Think critically at a conceptual level and by using mathematical analysis as well as the scientific method; write and speak effectively; use basic computer applications; and understand human behavior in the context of the greater society in a culturally diverse world.

POTENTIAL JOB POSITION TITLES

Potential entry-level job position titles include a wide range of entry-level management positions in the electronics engineering technology industry.

PROGRAM CONTENT

A minimum of 124.00 semester credit hours is required for graduation.

REQUIRED MANAGEMENT CORE COURSES

All courses, 33.00 semester credit hours, are required.

Course Number	Course Name	Prerequisite	Credit Hours
AC 107	Accounting I	IS 102	3.00
AC 220	Finance	AC 107	3.00
BU 106	Introduction to Management	None	3.00
BU 204	The Digital Firm and Business Communications	BU 106	3.00
BU 206	Business Law I	None	3.00
BU 302	Leadership and Organizational Behavior	BU 106	3.00
BU 327	Business Ethics	BU 206	3.00
BU 345	Project Management	None	3.00
BU 407	Quantitative Decision Making	MA 204 or MA 225 or MA 320	3.00
EC 111	Principles of Microeconomics	None	3.00
EC 121	Principles of Macroeconomics	None	3.00

REQUIRED COURSES IN ELECTRONICS ENGINEERING

All courses, 44.00 semester credit hours, are required.

Course Number	Course Name	Prerequisite	Credit Hours
EE 100	Electronic Fabrication	None	2.00
EE 110	Electricity and Test Equipment	None	2.00
EE 120	DC Circuits	EE 110	4.00
EE 130	AC Circuits	EE 120	4.00
EE 200	Digital Electronics	EE 110	4.00
EE 210	Solid State Electronics I	EE 130	4.00
EE 220	Solid State Electronics II	EE 210	4.00
EE 300	Microprocessors	EE 200	4.00
EE 310	Industrial Controls I	EE 200	4.00
EE 320	Telecommunications I	EE 220	4.00
EE 330	Computers and Networks	EE 300	4.00
EE 338	Microcontrollers	EE 335	4.00

ELECTIVE COURSES IN ELECTRONICS ENGINEERING

A minimum of 4.00 semester credit hours is required.

Course Number	Course Name	Prerequisite	Credit Hours
EE 335	Programming for Electronics	EE 300	4.00
EE 350	FCC License Preparation	EE 320	4.00

REQUIRED CAPSTONE OR INTERNSHIP

3.00 semester credit hours are required.

Course Number	Course Name	Prerequisite	Credit Hours
BU 491	Capstone Project	Final semester	3.00
BU 495	Internship	Final semester, PGPA of at least 2.50, and PD 214	3.00

GENERAL EDUCATION REQUIRED COURSES

Students enrolled in this bachelor's degree must complete a minimum of 45.00 semester credit hours in general education distributed among the following disciplines. A minimum of 9.00 semester credit hours must be upper level (300 to 400-level courses). Refer to the General Education section of the catalog for Herzing University courses that would satisfy these requirements. *

- 1.00 Semester Credit Hour in Information Literacy
- 6.00 Semester Credit Hours in English Composition or Literature
- 3.00 Semester Credit Hours in Speech
- 4.00 Semester Credit Hours in Computer Applications ♦
- 11.00 Semester Credit Hours in Mathematics (College Algebra or Above) ▲
- 8.00 Semester Credit Hours of Natural Science With a Lab Component ▲
- 3.00 Semester Credit Hours in Social or Behavioral Science
- 3.00 Semester Credit Hours in Humanities With a Critical Thinking Focus ** ♦
- 3.00 Semester Credit Hours in Cultural Diversity
- 3.00 Semester Credit Hours of General Education Electives ♦

* Transfer students may transfer courses that are within 1.00 semester credit hour of the courses listed above to meet these discipline requirements. Any resulting deficiency in the total of 45.00 semester credit hours required in general education may be made up with general education electives from any of the listed disciplines.

** A course with a critical thinking focus would be a course that addresses the theories and application of critical analysis with an emphasis on developing sequential reasoning skills. Examples may be courses in critical thinking, philosophy, logic, or science.

◆ The state of Minnesota requires a minimum of 30.00 semester credit hours of general education for bachelor's degrees, not counting computer applications. However, all Herzing University students in the BSTMEET program must complete a minimum of 45.00 semester credit hours in general education, including computer applications, to complete the requirement for graduation from this bachelor's degree program. Minnesota students must complete at least 4.00 semester credit hours of general education in the humanities.

▲ Students enrolled in the BSTMEET program are required to complete the following general education courses.

Course Number	Course Name	Prerequisite	Credit Hours
MA 225	Trigonometry and Pre-Calculus	MA 107 with grade of C or better	4.00
SC 358	Physics	MA 204 or MA 225; Corequisite SC 258L	3.00
SC 358L	Physics Lab	MA 204 or MA 225; Corequisite SC 258	1.00

PERSONAL AND PROFESSIONAL DEVELOPMENT COURSES

2.00 semester credit hours are required. Students taking the BU 495 Internship must also take PD 214.

Course Number	Course Name	Prerequisite	Credit Hours
PD 121	Professional Development I	None	1.00
PD 202	Professional Development II	None	1.00
PD 214	AS/AAS/BS/Diploma Internship Preparation	None	0.00

For more information about our graduation rates, the median debt of students who completed the program, and other important information, please visit our website at <http://www.herzing.edu/career-programs/undergraduate-degrees/technology/technology-management>