

## Engineering Technology, B.S. *major*

### Construction Management Emphasis

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\*\*\*Program Name Change from Industrial Technology to Engineering Technology pending MNSCU approval.\*\*\*

The Engineering Technology program prepares individuals for a wide range of career opportunities in business and industry in such areas as management, construction, engineering, product development, quality assurance, safety, and sustainable energy. There are two emphasis options in construction and manufacturing management that provide an opportunity to develop a focused study of management theories and practices in these areas.

**Note:** Upon approval of the Department of Technological Studies, certain major courses can be substituted in the technical core, professional core, or area of emphasis from related technical and community college programs.

Required Credits: 78

Required GPA: 2.25

#### I REQUIRED TECHNICAL CORE COURSES

COMPLETE THE FOLLOWING COURSES:

- TADT 1210 Materials and Processes - Forming (3 credits)
- TADT 1220 Materials and Processes - Separating (3 credits)
- TADT 1315 Energy and Power Technology (3 credits)
- TADT 1350 Electrical/Electronic Technology (3 credits)
- TADT 1460 2D Graphics And Laser Etching (3 credits)
- TADT 2250 Construction Technology (3 credits)
- TADT 2370 Automation Technology (3 credits)

#### II REQUIRED PROFESSIONAL CORE COURSES

COMPLETE THE FOLLOWING COURSES:

- TADT 3267 Engineering Economic and Cost Analysis (4 credits)
- TADT 3885 Technical Sales, Service and Training (4 credits)
- TADT 4385 Sustainability and Emerging Technologies (4 credits)
- TADT 4537 Industrial Design/Innovation (4 credits)
- TADT 4875 Facilities Management (4 credits)
- TADT 4878 Quality Assurance (4 credits)
- TADT 4897 Project Management (4 credits)

#### III REQUIRED FOUNDATION COURSES

TAKE 6 SEMESTER CREDITS OF MATH AT THE 1100 OR HIGHER LEVEL. STUDENTS ARE ENCOURAGED TO TAKE STATISTICS AND CALCULUS.

TAKE 7 SEMESTER CREDITS FROM AMONG THE PHYSICS, CHEMISTRY, OR PHYSICAL SCIENCE (SPECIFICALLY, SCI 1110 AND SCI 1120) COURSES THAT ARE APPROVED TO FULFILL LIBERAL EDUCATION CATEGORY 3. OTHER CATEGORY 3 COURSES

MAY BE SUBSTITUTED IF APPROVED BY THE CHAIR OF THE DEPARTMENT OF TECHNOLOGICAL STUDIES. STUDENTS ARE ENCOURAGED TO TAKE A COMBINATION OF PHYSICS AND CHEMISTRY.

#### CONSTRUCTION MANAGEMENT EMPHASIS

SELECT 16 CREDITS FROM THE FOLLOWING COURSES: STUDENTS MUST CHOOSE A CONSTRUCTION-RELATED TOPIC FOR TADT 4778, ADVANCED TOPICS IN TECHNOLOGY

- TADT 3250 Print Reading and Project Documentation (4 credits)
- TADT 3260 Project Bidding and Estimating (4 credits)
- TADT 4259 Construction Management (4 credits)
- TADT 4260 Computerized Construction Estimating
- TADT 4778 Advanced Topics in Technology (4 credits)

TADT 4970 MAY BE TAKEN FOR 4 CREDITS

- TADT 4970 Internship (1-12 credits)