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; construction management and manufacturing management. The program provides an opportunity to develop a focused study of management theories and practices in these areas.

For more information email Dr. Tim Brockman at tbrockman@bemidjistate.edu or by phone at 218.755.4128.
## I. Technical Core—21 credits
- TADT 1210 Materials & Processes Forming (3 credits)
- TADT 1220 Materials &Processes Separating (3 credits)
- TADT 1315 Energy and Power Technology (3 credits)
- TADT 1350 Electrical/Electronic Technology (3 credits)
- TADT 1460 Technical Graphics (3 credits)
- TADT 2250 Construction Technology (3 credits)
- TADT 2370 Automation Technology (3 credits)

## II. Professional Core—28 credits
- TADT 3267 Engineering Economic & Cost Analysis (4 credits)
- TADT 3885 Technical Sales, Service & Training (4 credits)
- TADT 4385 Sustainability & 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 Core—13 credits
Students are required to take 6 credits of Math at the 1100 or higher level. In addition, students are required to take 7 credits from among Physics, Chemistry, or SCI 1110 and/or SCI 1120 courses that are approved to fulfill the Liberal Education Category.

## IV. Area of Emphasis—16 credits
### Construction Management—Select 16 credits
- 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 (4 credits)
- TADT 4777 Advanced Topics in Technology (4 credits)
- TADT 4970 Internship (4 credits)

### Manufacturing Management—Select 16 credits
- TADT 3217 Material Science & Metallurgy (4 credits)
- TADT 3260 Project Bidding & Estimating (4 credits)
- TADT 3700 Production Planning & Control (4 credits)
- TADT 3878 Industrial/Engineering Production Studies (4 credits)
- TADT 4777 Advanced Topics in Technology (4 credits)
- TADT 4970 Internship (4 credits)

### Total Semester Credits Required for Major 65 Credits

## Bachelor of Science Degree Summary
- Required Technical Core (21 credits)
- Required Professional Core (28 credits)
- Area of Emphasis (16 credits)
- Liberal Education (42 credits)
- Required Foundation Courses (13 credits)
- Degree Total (120 credits)