Applied Engineering, B.A.S. major

Required Credits: 78
Required GPA: 2.25

I TADT COMMON CORE

Complete the following courses:
- TADT 3111 Project Management Methodology (3 credits)
- TADT 3267 Economic and Cost Analysis (3 credits)
- TADT 3880 Quality Assurance (3 credits)
- TADT 4867 Lean Principles and Practices (3 credits)
- TADT 4873 Emphasis Related Capstone (4 credits)

II APPLIED ENGINEERING CORE

Complete the following courses:
- TADT 3100 Principles of Professional Development (3 credits)
- TADT 3217 Materials Science and Metallurgy (3 credits)
- TADT 3537 Engineering Design (3 credits)
- TADT 3700 Operations Planning and Control (3 credits)
- TADT 3887 Safety and Risk Management (3 credits)
- TADT 4880 Total Quality Management (3 credits)
- TADT 4898 Simulation of Industrial Processes (3 credits)

III TRANSFER TECHNICAL BLOCK

Requires 38 technical credits transferred from an A.S. or A.A.S. degree, or a diploma (e.g., Manufacturing Technology, Automation Technology)

IV REQUIRED TADT ELECTIVES

Select 3 credits from the following:
- TADT 4727 Procurement and Inventory Control (3 credits)
- TADT 4827 Information Technology in Supply Chain (3 credits)
- TADT 4875 Facilities Management (3 credits)
- TADT 4899 Design of Experiments (3 credits)

PROGRAM LEARNING OUTCOMES | APPLIED ENGINEERING, B.A.S.

1. Readiness for Career: Students will apply resource management skills to address real world problems.

2. Higher Order Thinking: Students will analyze, design, and implement solutions to current industry needs.

3. Communication & Leadership: Students will demonstrate professional communication skills, ethical behavior, and effective team participation.

4. Knowledge, Values, & Abilities: Students will employ value-added skills in real world applications that reflect the needs of industry.

SUGGESTED SEMESTER SCHEDULE APPLIED ENGINEERING, B.A.S.

Freshman
- TADT3100
- TADT3267
- TADT3111
- TADT3700
- Liberal Education Requirements

Sophomore
- TADT3217
- TADT3537
- TADT3887
- TADT4385
- Liberal Education Requirements

Junior
- TADT4867
- TADT4879
- Upper Division TADT Elective with Advisor Approval
- Liberal Education Requirements

Senior
- TADT4873
- TADT4878
- Liberal Education Requirements