## ASSOCIATE OF SCIENCE TRANSFER DEGREE - effective 2022-2023

### Engineering emphasis (64 credit hours)

Minimum 2.00 Cumulative Grade Point Average for A.S. Degree. 15 hour residency requirement.

<table>
<thead>
<tr>
<th>Course Areas/Titles</th>
<th>Course Numbers</th>
<th>Done</th>
<th>Now</th>
<th>Need</th>
</tr>
</thead>
</table>

### Communications

- **3 hours**
  - Written Communications
  - ENG 101(H)

### Civics

- **3 hours**
  - Civics
  - HST 103(H), 104(H); PSC 102(H)
  - PSC 001 MO Higher Ed Civics Exam must also be completed

### Economics

- **3 hours**
  - Economics
  - ECO 101, 102

### Humanities and Fine Arts

- **3 hours**
  - Art
  - ART 101, 103, 105
  - Civilization
  - HST 201, 202
  - Foreign Language
  - FRN 101, 102; GRM 101, 102; SPN 101, 102
  - Literature
  - ENG 105, 106, 215(H), 216(H), 225, 226, 228, 229
  - Geography
  - GEO 103
  - Music
  - MSC 101, 131, 133, 231, 232
  - Philosophy/Religion
  - PHL 101, 102(H), 201, 202(H)
  - Political Science
  - PSC 155
  - Psychology
  - PSY 101(H)
  - Sociology
  - SOC 101(H)
  - Theatre
  - THT 100(H)

### Mathematical Sciences

- **5 hours**
  - Mathematical Sciences
  - MTH 180 (not a MOTR course but meets general education requirement for math)

### Natural Sciences

- **10 hours**
  - Physical Sciences
  - CHM 111(H)*
  - PHY 223*

### Computer Literacy

- Exploring the Field of Engineering
  - EGR 100 (counts as elective degree requirement)

### REQUIRED ENGINEERING COURSES

- **18 hours**
  - Calculus II (5)
  - MTH 185
  - Calculus III (5)
  - MTH 201
  - Differential Equations (3)
  - MTH 205
  - General Physics II (5)
  - PHY 224

### Associate of Science Technical Elective Options

- **19** hours (including FYE course)
  - Biology for Majors I (4)
  - BIO 103
  - Genetics (4)
  - BIO 201
  - General Chemistry II (5)
  - CHM 112
  - Organic Chemistry I (5)
  - CHM 200
  - Organic Chemistry II (5)
  - CHM 201
  - Advanced Communications (3)
  - COM 110 or ENG 102(H)
  - Introduction to Computer Programming (3)
  - CIS 155
  - Computer Aided Engineering Design (3)
  - EGR 101
  - Engineering Mechanics-Statics (3)
  - EGR 228
  - Engineering Mechanics-Dynamics (3)
  - EGR 250
  - Circuit Analysis I (3)
  - EGR 261
  - Introduction to Statistics (3)
  - MTH 132
  - Linear Algebra (3)
  - MTH 172
  - Introduction to Metallurgy (3)
  - MTT 148
  - Physical Geology (4)
  - PHY 105

### TOTAL A.S. Engineering emphasis degree credit hours (at least 64 hours required)

Institution Student Plans to Transfer to and Major Area of Study:

Student Signature/Date:  
Advisor Signature/Date:  

**Total may vary depending on major areas of study requirements related to specific Engineering discipline: Aerospace, Agricultural, Ceramic, Chemical, Civil, Electrical, Engineering Management, Food Biochemical and Environmental, Geological, Geology and Geophysics, Industrial, Mechanical, Metallurgical, Mining, Nuclear, and Petroleum Engineering. Consult your Engineering Advisor and 4-year transfer institution for assistance in selecting courses for your specific degree, major, and transfer institution requirements.**

Revised November 2022