

ASSOCIATE OF SCIENCE TRANSFER DEGREE Engineering emphasis (64 credit hours)

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

| | | Course Areas/Titles | Course Numbers | Done | Now | Need | |
|--|---|---|--|---|---|------|--|
| A.S. Engineering emphasis GENERAL EDUCATION OPTIONS AND REQUIREMENTS (27 credit hours) <small>MOTR CORE 42 completion not required for A.S. degree</small> | Communications | 3 hours | <i>Written Communications</i> | ENG 101(H) | | | |
| | A.S. Engineering emphasis DEGREE ELECTIVE OPTIONS AND REQUIREMENTS (37 hours) | Humanities and Fine Arts AND/OR Social and Behavioral Sciences | 3 hours | <i>Civics</i> | HST 103(H), 104(H); PSC 102(H) | | |
| | | | | <i>PSC001 MO Higher Ed Civics Exam must also be completed</i> | | | |
| | | | 3 hours | <i>Economics</i> | ECO 101, 102 | | |
| | | | 3 hours | <i>Art</i> | ART 101, 103, 105 | | |
| | | | | <i>Civilization</i> | HST 201, 202 | | |
| | | | | <i>Foreign Language</i> | FRN 101, 102; GRM 101, 102; SPN 101, 102 | | |
| | | | | <i>Literature</i> | ENG 105, 106, 215(H), 216(H), 225, 226, 228, 229 | | |
| | | | | <i>Geography</i> | GEO 103 | | |
| | | | | <i>Music</i> | MSC 101, 131, 133, 231, 232 | | |
| <i>Philosophy/Religion</i> | | | | PHL 101, 102(H), 201, 202(H) | | | |
| <i>Political Science</i> | PSC 155 | | | | | | |
| <i>Psychology</i> | PSY 101(H) | | | | | | |
| <i>Sociology</i> | SOC 101(H) | | | | | | |
| <i>Theatre</i> | THT 100(H) | | | | | | |
| Mathematical Sciences | 5 hours | <i>Mathematical Sciences</i> | MTH 180 (not a MOTR course but meets general education requirement for math) | | | | |
| Natural Sciences | 10 hours with 2 labs* | <i>Physical Sciences</i> | CHM 111(H)* | | | | |
| | | | PHY 223* | | | | |
| Institutional Requirements | Computer Literacy met with required Engineering emphasis General Education course PHY223 | | | Required course listed above | | | |
| | First Year Experience (FYE 1 hr) | 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 | | | | | | |
| MOTR Humanities or Social Behavioral Science as needed by transfer institution (3) | Humanities/Social Sciences | | | | | | |
| 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.