# Associate of Science
# Pathway to
# B.S. Mechanical Engineering

| | *Shawnee Community College* | | | | | |
|---|---|---|---|---|---|---|
| Year 1 | ENG-0111 | English Comp I | 3 | ENG-0112 | English Comp II | 3 |
| | PSY-0211 | Into to Psychology | 3 | MAT-0209 | Calculus I | 5 |
| | MAT-0115 | Pre-Calculus | 5 | ECO-0212 | Intro to Microeconomics | 3 |
| | CHE-0111 | Inorg, Org and Biochem | 4 | Elective | Humanities | 3 |
| | | | | SPC-0111 | Speech | 3 |
| | | | 15 | | | 17 |

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| Year 2 | CHE-0114 | Inorganic Chemistry | 5 | MAT-0212 | Calculus III | 5 |
| | MAT-0211 | Calculus II | 5 | MAT-0213 | Ordinary Differential Equations I | 3 |
| | PHY-0116 | University Physics I | 4 | CHE-0115 | Inorganic Chemistry II | 5 |
| | Elective | Fine Arts | 3 | PHY-0217 | University Physics II | 4 |
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| | *Southern Illinois University-Carbondale* | | | | | |
|---|---|---|---|---|---|---|
| Year 3 & 4 | BIOL-202 | Human Genetics & Human Health | 2 | ME-309 | Mechanical Analysis & Design | 3 |
| | 1 Course | ENGR-222, ENGR-0296, ME-0222 | 2 | ME-312 | Materials Science Fundamentals | 3 |
| | ENGR-250 | Statics | 3 | ME-336 | System Dynamics & Cont | 3 |
| | ENGR-261 | Dynamics | 3 | ME-401 | Thermal Measurements Lab | 1 |
| | ENGR-335 | Electric Circuits I | 3 | ME-407 | Measurements & Instrum. | 2 |
| | ENGR-350A | Mechanics of Materials | 3 | ME-411 | Manufacturing Methods Engr Materials | 3 |
| | ENGR-351 | Numerical Methods in Eng | 3 | ME-475 | Machine Design I | 3 |
| | ENGR-370A | Fluid Mechanics | 3 | ME-495A | Mechanical Eng Design | 3 |
| | ME-102 | Computer-Aided Eng | 2 | ME-495B | Mechanical Eng Design | 3 |
| | ME-300 | Engineering Thermodynamics | 3 | ME Electives | 12 ME at 400 Level & 3 of IMAE | 15 |
| | ME-302 | Engineering Heat | 3 | | | |
| | Total Hours to Bachelor Degree: 132 Hours | | | | | |

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