

Mechanical Engineering Required Courses

General Engineering

| | | |
|---------------------|----|--------------------------|
| Freshman Clinic I | 2 | <input type="checkbox"/> |
| Freshman Clinic II | 2 | <input type="checkbox"/> |
| Sophomore Clinic I | 1 | <input type="checkbox"/> |
| Sophomore Clinic II | 1 | <input type="checkbox"/> |
| Junior Clinic I | 2 | <input type="checkbox"/> |
| Junior Clinic II | 2 | <input type="checkbox"/> |
| Senior Clinic I | 2 | <input type="checkbox"/> |
| Senior Clinic II | 2 | <input type="checkbox"/> |
| Statics | 2 | <input type="checkbox"/> |
| Dynamics | 2 | <input type="checkbox"/> |
| Materials Science | 2 | <input type="checkbox"/> |
| Manufacturing | 2 | <input type="checkbox"/> |
| Solid Mechanics | 2 | <input type="checkbox"/> |
| <i>Total</i> | 24 | |

Other Engineering

| | | |
|--------------------|---|--------------------------|
| Networks I | 2 | <input type="checkbox"/> |
| Electronics I | 2 | <input type="checkbox"/> |
| Technical Elective | 3 | <input type="checkbox"/> |
| <i>Total</i> | 7 | |

Mechanical Engineering

| | | |
|-------------------------|----|--------------------------|
| Machine Design | 2 | <input type="checkbox"/> |
| Vibrations | 2 | <input type="checkbox"/> |
| Emerging Topics | 2 | <input type="checkbox"/> |
| Heat Transfer | 2 | <input type="checkbox"/> |
| Quality and Reliability | 3 | <input type="checkbox"/> |
| System Dynamics | 3 | <input type="checkbox"/> |
| ME Elective | 3 | <input type="checkbox"/> |
| ME Elective | 3 | <input type="checkbox"/> |
| ME Elective | 3 | <input type="checkbox"/> |
| ME Elective | 3 | <input type="checkbox"/> |
| Thermodynamics | 4 | <input type="checkbox"/> |
| Mechanical Design | 4 | <input type="checkbox"/> |
| Fluid Mechanics | 4 | <input type="checkbox"/> |
| <i>Total</i> | 38 | |

General Education Requirements

| | | |
|----|--------------------------------|--------------------------|
| WI | satisfied by Senior Clinic II | <input type="checkbox"/> |
| RS | satisfied by Freshman Clinic I | <input type="checkbox"/> |

Mathematics and Science

| | | |
|---------------------------|----|--------------------------|
| Accelerated Calculus I | 4 | <input type="checkbox"/> |
| Accelerated Calculus II | 4 | <input type="checkbox"/> |
| Math for Eng I | 4 | <input type="checkbox"/> |
| Math for Eng II | 4 | <input type="checkbox"/> |
| Advanced College Chem | 4 | <input type="checkbox"/> |
| Comp Sci & Prog | 4 | <input type="checkbox"/> |
| Introductory Mechanics | 4 | <input type="checkbox"/> |
| Intro Elect and Magnetism | 4 | <input type="checkbox"/> |
| Math/Sci Elective | 3 | <input type="checkbox"/> |
| <i>Total</i> | 35 | |

Social and Behavioral Sciences

| | | |
|------------------|---|--------------------------|
| Microeconomics | 3 | <input type="checkbox"/> |
| Other SBS Course | 3 | <input type="checkbox"/> |
| <i>Total</i> | 6 | |

History, Humanities and Languages

| | | |
|--------------|---|--------------------------|
| HHL Course | 3 | <input type="checkbox"/> |
| HHL Course | 3 | <input type="checkbox"/> |
| <i>Total</i> | 6 | |

Art

| | | |
|--------------|---|--------------------------|
| Art Course | 3 | <input type="checkbox"/> |
| <i>Total</i> | 3 | |

Communication

| | | |
|---------------------|---|--------------------------|
| Composition I | 3 | <input type="checkbox"/> |
| Sophomore Clinic I | 3 | <input type="checkbox"/> |
| Sophomore Clinic II | 3 | <input type="checkbox"/> |
| <i>Total</i> | 9 | |

M/G must be satisfied by HHL/SBS/Art □
 LIT must be satisfied by HHL/SBS/Art □

Courses By Year – Effective Fall 2009

| Fall Semester | | Spring Semester | |
|-------------------------------|-------------|------------------------------|-------------|
| Freshman Year | | | |
| Composition I | ENGL 01.111 | Computer Sci & Programming | CS 04.103 |
| Freshman Clinic I | ENGR 01.101 | Freshman Clinic II | ENGR 01.102 |
| Accelerated Calculus I | MATH 01.140 | Accelerated Calculus II | MATH 01.141 |
| Adv. College Chemistry | CHEM 06.105 | Introductory Mechanics | PHYS 02.200 |
| General Education Elective | | General Education Elective | |
| Sophomore Year | | | |
| Sophomore Clinic I | ENGR 01.201 | Sophomore Clinic II | ENGR 01.202 |
| Math for Engr Analysis I | MATH 01.235 | Math for Engr Analysis II | MATH 01.236 |
| Statics | ENGR 01.271 | Solid Mechanics | ENGR 01.272 |
| Dynamics | ENGR 01.291 | Materials Science | ENGR 01.281 |
| Intro Electricity & Magnetism | PHYS 02.201 | Manufacturing Processes | ENGR 01.282 |
| | | Machine Design | ME 10.241 |
| Junior Year | | | |
| Junior Clinic I | ENGR 01.301 | Junior Clinic II | ENGR 01.302 |
| Thermodynamics I | ME 10.311 | Microeconomics | ECON 04.102 |
| Thermodynamics II | ME 10.312 | Fluid Mechanics I | ENGR 01.341 |
| Mechanical Design | ME 10.341 | Fluid Mechanics II | ME 10.313 |
| Quality & Reliability | ME 10.342 | Vibrations | ME 10.201 |
| Networks I | ECE 09.201 | Heat Transfer | ChE 06.311 |
| | | Electronics I | ECE 09.311 |
| Senior Year | | | |
| Senior Engineering Clinic I | ENGR 01.401 | Senior Engineering Clinic II | ENGR 01.402 |
| System Dyns and Controls | ME 10.343 | Emerging Topics in ME | ME 10.403 |
| Major Elective I | | Major Elective III | |
| Major Elective II | | Major Elective IV | |
| Math/Science Elective | | Technical Elective | |
| General Education Elective | | General Education Elective | |