

# 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>	<i>24</i>	

## Other Engineering

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

## 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>	<i>38</i>	

## General Education Requirements

WI	satisfied by Senior Clinic II	<input type="checkbox"/>
RS	satisfied by Freshman Clinic I	<input type="checkbox"/>
M/G	must be satisfied by HHL/SBS/Art	<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>	<i>35</i>	

## Social and Behavioral Sciences

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

## History, Humanities and Languages

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

## Art

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

## Communication

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

LIT must be satisfied by HHL/SBS/Art □

# Courses By Year – Effective Fall 2009

Fall Semester		Spring Semester	
<b>Freshman Year</b>			
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	
<b>Sophomore Year</b>			
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
<b>Junior Year</b>			
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
<b>Senior Year</b>			
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	