

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"/>
Mat Sci and Manuf	3	<input type="checkbox"/>
Strength of Materials	3	<input type="checkbox"/>
Finite Element Analysis	3	<input type="checkbox"/>
<i>Total</i>	27	

Other Engineering

Princ and App ECE	3	<input type="checkbox"/>
<i>Total</i>	3	

Mechanical Engineering

Intro Mechanical Design	3	<input type="checkbox"/>
Machine Design	4	<input type="checkbox"/>
Mechanical Engineering Lab	2	<input type="checkbox"/>
Quality and Reliability	3	<input type="checkbox"/>
Thermal-Fluid Sci I	6	<input type="checkbox"/>
Thermal-Fluid Sci II	6	<input type="checkbox"/>
System Dyn & Cont I	3	<input type="checkbox"/>
System Dyn & Cont II	3	<input type="checkbox"/>
Biomechanics	3	<input type="checkbox"/>
ME Elective	3	<input type="checkbox"/>
ME Elective	3	<input type="checkbox"/>
ME Elective	3	<input type="checkbox"/>
<i>Total</i>	42	

Rowan Experience 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"/>
LIT	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"/>
<i>Total</i>	32	

Social and Behavioral Sciences

Entrepreneurship & Innov	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	

Courses By Year – Effective Fall 2010

Fall Semester		Spring Semester	
Freshman Year			
Freshman Clinic I (2)	ENGR 01.101	Freshman Clinic II (2)	ENGR 01.102
Accelerated Calculus I (4)	MATH 01.140	Accelerated Calculus II (4)	MATH 01.141
Adv. College Chemistry (4)	CHEM 06.105	Introductory Mechanics (4)	PHYS 02.200
Composition I (3)	ENGL 01.111	Computer Science & Prog (4)	CS 04.103
Intro to Mechanical Design (3)	ME 10.101	Mat Sci and Manuf (3)	ENGR 01.283
(16)		(17)	
Sophomore Year			
Sophomore Clinic I (4)	ENGR 01.201	Sophomore Clinic II (4)	ENGR 01.202
Math for Engr Analysis I (4)	MATH 01.235	Math for Engr Analysis II (4)	MATH 01.236
Intro Elect & Magnetism (4)	PHYS 02.201	Strength of Materials (3)	ENGR 01.273
Statics (2)	ENGR 01.271	ME Lab (2)	ME10.211
Dynamics (2)	ENGR 01.291	Princ and App ECE (3)	ECE 09.205
(16)		(16)	
Junior Year			
Junior Clinic I (2)	ENGR 01.301	Junior Clinic II (2)	ENGR 01.302
Thermal-Fluid Sciences I (6)	ME 10.321	Thermal-Fluid Sciences II (6)	ME 10.322
Machine Design (4)	ME 10.301	Quality & Reliability (3)	ME 10.342
General Education Elective (3)		Entrepreneurship & Innov (3)	ENT 06.240
(15)		General Education (3)	
		(17)	
Senior Year			
Senior Clinic I (2)	ENGR 01.401	Senior Clinic II (2)	ENGR 01.402
Sys Dyns and Control I (3)	ME 10.343	Sys Dyns and Control II (3)	ME 10.344
Finite Element Analysis (3)	ENGR 01.410	Major Elective III (3)	ME 10.4xx
Major Elective I (3)	ME 10.4xx	Intro to Biomechanics (3)	ME 10.470
Major Elective II (3)	ME 10.4xx	General Education Elective (3)	
General Education Elective (3)		(14)	
(17)			