



Russ College of Engineering and Technology

BS7257: Mechanical Engineering

The scheduling scenario below is intended to present an example pattern by which this major can be completed in three years. Those interested in pursuing this option need to work with an academic advisor to develop a specific plan.

Course Subject and Title (Or General Tier/Major Requirement)	Credit Hours	Upper Division	Minimum Grade	Total Hours
Post-Secondary Coursework or Transfer/Advanced Placement Credit				
CHEM 1510 - Fundamentals of Chemistry I	4			
MATH 2301 - Calculus I	4		C	
MATH 2302 - Calculus II	4		C	
PHYS 2051 - General Physics	5			
Tier II: Cross Cultural Perspectives	2-3			
Tier II: Humanities and Literature	2-3			
Tier II: Social Science	2-3			
Tier II: Fine Arts	2-3			
ENG 1510 – Freshman Composition	3			28-32
Semester 1: Fall				
ET 1100 - Engineering Graphics Fundamentals	2			
ME 1010 - Mechanical Engineering - Gateway Course	3			
ET 2100 - Programming in C	4			
ET 2200 - Statics	4		C	
ISE 3200 - Engineering Statistics	3	YES		15
Semester 2: Spring				
MATH 3200 - Applied Linear Algebra	3	YES		
ME 1800 - Mechanical Engineering Colloquium I	1			
ME 2800 - Mechanical Engineering Colloquium II	1			
MATH 3400 - Elementary Differential Equations	3	YES		
ET 2240 - Dynamics	3			
ET 3200 - Engineering Thermodynamics	3	YES	C	
ETM 3070 - Manufacturing Design & Laboratory	3			
ET 1500 - Engineering and Technology: Career Orientation	0.5			17.5
Semester 3: Fall				
ME 3121 - Heat and Fluid Transport I	2	YES		
ET 2300 - Principles of Engineering Materials	3			
ME 3011 - Kinematics and Dynamics of Machines	3	YES		
ET 2220 - Strength of Materials	3			

ME 3510 - Computer Aided Design	3	YES		
ET 3132 - Basic Electrical Engineering I	2	YES		16
Semester 4: Spring				
ME 3800 - Mechanical Engineering Colloquium III	1	YES		
ME 3122 - Heat and Fluid Transport II	3	YES		
ME 3700 - Machine Design	3	YES		
ME 3012 - Linear Systems Analysis and Control	3	YES		
ME 3140 - Introduction to Manufacturing Processes	3	YES		
EE 3143 - Basic Electrical Engineering II	3	YES		
EE 3051 - Basic Electrical Laboratory	1	YES		17
Semester 5: Fall				
MATH 3600 - Applied Numerical Methods	3	YES		
ME 4701 - Mechanical Engineering Capstone Design I	4	YES		
ME 4550 - Mechatronics I	3	YES		
ME Tech Elective	3	YES		
Tech Elective	3	YES		16
Semester 6: Spring				
Science/Math Elective	3-4	YES		
ME 4880 - Experimental Design Lab	1	YES		
ME 4800 - Mechanical Engineering Colloquium IV	3	YES		
ME 4210 - Applied Thermal Systems Design and Analysis	4	YES		
ME 4702 - Mechanical Engineering Capstone Design II	3	YES		14-15