

Recommended Schedule (Starting in MATH 235) JMU BS Engineering Degree – as of Fall 2010

Freshman Fall		Freshman Spring	
MATH 235: Calculus I ¹	4	MATH 236: Calculus II	4
PHYS 240/140L: Physics I ²	4	PHYS 250/150L: Physics II	4
General Education ³	3	ENGR 112: Intro. to Engineering	3
General Education ³	3	General Education ³	3
SEMESTER TOTAL	14	SEMESTER TOTAL	14
Sophomore Fall		Sophomore Spring	
MATH 237: Calculus III	4	MATH 238: Linear Algebra & Differential Equations	4
CHEM 131/131L ²	4	BIO 222 <i>or</i> GEOL 210 ⁴	3
ENGR 231: Engineering Design I	1	ENGR 212: Statics & Dynamics	4
General Education	3	ENGR 221: Mgmt. of Technology I	3
General Education	3	ENGR 232: Engineering Design II	1
SEMESTER TOTAL	15	SEMESTER TOTAL	15
Junior Fall		Junior Spring	
ENGR 311: Thermal-Fluids I + Lab	4	ENGR 312: Thermal-Fluids II + Lab	4
ENGR 313: Circuits & Instrumentation + Lab	4	ENGR 314: Materials & Mechanics + Lab	4
ENGR 322: Mgmt. of Technology II	3	ENGR 332: Engineering Design IV	2
ENGR 331: Engineering Design III	2	Approved Technical Elective	3
General Education	3	General Education	3
SEMESTER TOTAL	16	SEMESTER TOTAL	16
Senior Fall		Senior Spring	
ENGR 411: Sustainability Fundamentals	3	ENGR 412: Sustainability II	3
CHEM 132Le: ENGR/CHEM Lab ⁵	1	ENGR 413: Systems Analysis	3
ENGR 431: Engineering Design V	2	ENGR 432: Engineering Design VI	2
Approved Technical Elective	3	General Education	4
Approved Technical Elective	3	General Education	3
General Education	3		
SEMESTER TOTAL	15	SEMESTER TOTAL	15
TOTAL CREDITS = 120			

1. Also fulfills General Education requirement for Cluster 3, Group 1 (Mathematics)

2. Also fulfills General Education requirement for Cluster 3, Group 3 (Science)

3. Also fulfills General Education requirement for Cluster 1 (Skills for the 21st Century)

4. Also fulfills General Education requirement for Cluster 3, Group 2 (Science)

5. Designated ENGR/CHEM lab ONLY – offered in Fall. Must be taken in conjunction with ENGR 411.

Highlighted courses may be taken either junior or senior year and are offered both fall and spring semesters.