Department of Mechanical Engineering

Stark State College + The University of Akron **B.S.** Mechanical Engineering 146 credits First Year Fall* Spring* Summer CHM 141 Principles of Chem 1 (w/lab) **ENG 221 Technical Report Writing ETD 121 Engineering Student Success Seminar** 1 MTH 224 Analytical Geometry w/ Calculus 2 **ENG 124** College Composition 3 SOC 225 **Cultural Diversity** MTH 223 Analytical Geometry w/ Calculus 1 4 Gen Ed: Humanities (TAG) **CHM 142** Principles of Chemistry II (w/lab) COM 121 Effective Speaking 16 18 Second Year Fall[%] Spring Summer **PHY 221** General Physics 1 (w/lab) **PHY 222** 4600:260 Eng. Analysis 1 General Physics 2 (w/lab) 4600:203 Dynamics MTH 225 Analytical Geometry w/ Calculus 3 4 MTH 227 **Differential Equations** 3 **MET 124** Statics & Strength of Materials 4 Gen Ed: Humanities (TAG) 3 **BUS 221** Microeconomics (TAG - Soc Sci) **MET 221 Advanced Materials** 2 3 **CST 121 Modeling and Simulation DET 125 Basic AutoCAD** 3 **MET 123 Material Science** 2 19 18 5 Third Year Fall Spring Summer 4600:300 Thermodynamics 1 4600:311 Fluid Mechanics 2 3 4600:310 Fluid Mechanics 1 2 4600:340 Sys. Dyn. & Response 3 4600:321 Kinematics 2 Co-op* 3 4600:336 Analysis of Mech. Comp. 3470:401 Prob. & Stats. For Engineers 2 4600:360 Engineering Analysis 2 2 14 Fourth Year Fall Spring Summer 4600:315 Heat Transfer 3 4600:337 Design of Mech. Comp. 4600:431 Fund. Of Mech. Vibrations 3 Co-op* Co-op* 4400:307 **Basic Electrical Engineering** 4 2 4600:483 ME Measurements Lab 2 4600:301 Thermodynamics 2 17

Fall					
4600:441	Control Systems Design	3			
4600:400	Thermal System Comp.	3			
4600:460	Concepts of Design	3			
4600:484	ME Laboratory	2			
4600:461	ME Senior Design Project 1	2			
4600:402	Senior Seminar	1			
	ME Elective	3			
		17			

	Fifth Year	
	Spring	
4600:471	ME Senior Design Project 2	2
5540:xxx	Physical Education	1
3400:210 or 3400:221	Humanities in the W. Trad. 1 or Humanities in the World since 1300	4
	Social Sciences Elective	3
	ME Elective	3
	ME Elective	3

Summer		
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Notes:

- % -- Blue courses (Fall, Spring for First and Second Year) are at Stark State College.
- * ... While co-op is not mandatory, students can graduate with a B.S. Mechanical Engineering with Co-Op degree upon completion of three co-op semesters.