## **Mechanical Engineering**

Bachelor of Science (BS.ENGM)

<b>Core Requir</b>	ements		Credits	Notes/Instructions
College Sem.	Quest for Meaning	CSEM 100	3	
Communication & Creative Expression	Writing Oral Communication Literature The Arts	ENGL 110 <sup>†</sup> COMM 101 ENGL 140-149 ARTS 100-149	3 3 3 3	†A student may be required to take ENGL 105 and/or MATH 100 based on placement exams administered prior to their first semester at King's
Citizenship	History Intercultural Global Connections	HIST 100-149 FREN/GERM/SPAN 100-level or Study Abroad <sup>††</sup> ECON 150-199; GEOG 150-199; HIST 150-199; PS 150-199; SOC 150-199	3 3 3	College. ENGL 105 and MATH 100 are 3-credit courses and will count as free electives.
Quantitative & Scientific Reasoning	SBM Quantitative Reasoning SBM Scientific Endeavor SBM Science in Context Human Beh. & Soc. Inst	MATH 120 <sup>†</sup> or higher level NSCI 100 NSCI 171-199 ECON 111, 112; GEOG 101, 102; PS 101, PSYC 101, SOC 101	- - - 3	Competence requirement can be satisfied by taking a 100- level language class for 3 credits or participating in an approved Study
Wisdom, Faith, & the Good Life	Introduction to Phil. Phil. Investigations Theology & Wisdom Theology & the Good Life	PHIL 101 PHIL 170-199; MSB 287 THEO 150-159 THEO 160-169	3 3 3 3	Abroad experience.  SBM = Satisfied By Major requirement(s) and credit(s) listed below.
		Total Core Credits	39	

Mathematics & Science Requirements	Credits	Mechanical Engineering Requirements	Credits
PHYS 113 <sup>CR,2</sup> Physics for Sc & Eng I	3	PHYS 241 <sup>PR</sup> Statics	3
PHYS 113L Phy for Sc & Eng I Lab	1	PHYS 242 <sup>PR</sup> Mechanics of Solids	3
PHYS 114 <sup>PR</sup> Physics for Sc & Eng II	3	CS 111 Programing for Science & Engineering I	2
PHYS 114L <sup>PR</sup> Phy for Sc & Eng II Lab	1	CS 111L Programing for Science & Engineering I Lab	1
CHEM 113 <sup>2</sup> Gen. Chem. I	3	ENGR 150 Engineering Seminar	2
CHEM 113L Gen. Chem. I Lab	1	ENGR 250 <sup>PR</sup> System Design & Analysis	3
CHEM 114 <sup>PR</sup> Gen. Chem. II	3	ENGR 250L <sup>PR</sup> Sys Design & Analysis Lab	1
CHEM 114LPR Gen. Chem. II Lab	1	ENGR 350 <sup>PR</sup> Engineering Materials	3
MATH 129 Calculus I	4	ENGR 350L <sup>PR</sup> Engineering Materials Lab	.5
MATH 130 <sup>PR</sup> Calculus II	4	ENGR 360 <sup>PR</sup> Probability & Eng Statistics	3
MATH 231 <sup>PR</sup> Calculus III	4	ME 200 <sup>PR</sup> Introduction to Mechanical Engineering	3
MATH 237 <sup>PR</sup> Math Meth. for Phys. Sci.	3	ME 200L <sup>PR</sup> Intro to Mechanical Engineering Lab	.5
MATH 238 <sup>PR</sup> Differential Equations	3	ME 250 <sup>PR</sup> Thermodynamics	3
		ME 320 <sup>PR</sup> Manufacturing Systems	3
		ME 320L <sup>PR</sup> Manufacturing Systems Lab	1
		ME 340 <sup>PR</sup> Dynamics	3
		ME 350 <sup>PR</sup> Fluid Mechanics	3
		ME 350L <sup>PR</sup> Fluid Mechanics Lab	.5
		ME 360 <sup>PR</sup> Heat Transfer	3
		ME 360LPR Heat Transfer Lab	1
		ME 380 <sup>PR</sup> Mechatronics	3
		ME 380L <sup>PR</sup> Mechatronics Lab	1
		ME 400 <sup>PR</sup> Mechanical Design	3
		ME 400L <sup>PR</sup> Mechanical Design Lab	1
		ME 410 Special Topics in Mechanical Engineering	3
		ME 420 <sup>PR</sup> System Dynamics	3
		ME 420L <sup>PR</sup> System Dynamics Lab	1
		ME 441 <sup>PR</sup> Capstone Design I	3
		ME 441L <sup>pr</sup> Capstone Design I Lab	1
		ME 442 <sup>PR</sup> Capstone Design II	3
		ME 442L <sup>PR</sup> Capstone Design II Lab	1
Other Requirements			
HCE 101 Holy Cross Experience	1		
Total Mathematics & Science & Other Credits	35	Total Mechanical Engineering Credits	65.5

## **Mechanical Engineering**

## Suggested Sequence

A suggested course sequence of degree requirements is listed below. Refer to the college catalog for course titles, descriptions, and prerequisites. Always consult your Academic Advisor when planning and scheduling your classes.

Fall	Credits	Spring	Cre
CHEM 113 <sup>2</sup> General Chemistry I	3	CHEM 114 <sup>PR</sup> General Chemistry II	
CHEM 113L General Chemistry I Lab	1	CHEM 114L <sup>PR</sup> General Chemistry II Lab	
PHYS 113 <sup>CR,2</sup> Physics for Scientists & Engineers I	3	PHYS 114 <sup>PR</sup> Physics for Scientists & Engineers II	
PHYS 113L Physics for Scientists & Eng I Lab	1	PHYS 114L <sup>PR</sup> Physics for Scientists & Eng II Lab	
MATH 129 <sup>2</sup> Calculus I	4	MATH 130 <sup>PR</sup> Calculus II	
ENGR 150 Engineering Seminar	2	Core Course <sup>1</sup>	
HCE 101 Holy Cross Experience	1	Core Course <sup>1</sup>	
	15		1
Summer	Credits		
Fall	Credits	Spring	Cr
ME 200 <sup>PR</sup> Intro to Mechanical Engineering	3	ME 250 <sup>PR</sup> Thermodynamics	
ME 200LPR Intro to Mechanical Engineering Lab	.5	ENGR 250 <sup>PR</sup> System Design & Analysis	
MATH 231 <sup>PR</sup> Calculus III	4	ENGR 250LPR System Design & Analysis Lab	
MATH 238 <sup>PR</sup> Differential Equations	3	ENGR 350 <sup>PR</sup> Engineering Materials	
PHYS 241 <sup>PR</sup> Statics	3	ENGR 350L <sup>PR</sup> Engineering Materials Lab	
Core Course <sup>1</sup>	3	PHYS 242 <sup>PR</sup> Mechanics of Solids	
		Core Course <sup>1</sup>	
		Core Course <sup>1</sup>	
	16.5		1
Summer	Credits		-
- "	Cuadita	Continu	•
Fall	Credits	Spring	Cr
ME 320 <sup>PR</sup> Manufacturing Systems	3	ME 360 <sup>PR</sup> Heat Transfer	Ci
ME 320 <sup>PR</sup> Manufacturing Systems ME 320L <sup>PR</sup> Manufacturing Systems Lab	3 1	ME 360 <sup>PR</sup> Heat Transfer ME 360L <sup>PR</sup> Heat Transfer Lab	Ci
ME 320 <sup>PR</sup> Manufacturing Systems ME 320L <sup>PR</sup> Manufacturing Systems Lab ME 340 <sup>PR</sup> Dynamics	3 1 3	ME 360 <sup>PR</sup> Heat Transfer  ME 360L <sup>PR</sup> Heat Transfer Lab  ME 400 <sup>PR</sup> Mechanical Design	CI
ME 320 <sup>PR</sup> Manufacturing Systems ME 320L <sup>PR</sup> Manufacturing Systems Lab ME 340 <sup>PR</sup> Dynamics ME 350 <sup>PR</sup> Fluid Mechanics	3 1 3 3	ME 360 <sup>PR</sup> Heat Transfer  ME 360L <sup>PR</sup> Heat Transfer Lab  ME 400 <sup>PR</sup> Mechanical Design  ME 400L <sup>PR</sup> Mechanical Design Lab	Cl
ME 320 <sup>PR</sup> Manufacturing Systems ME 320L <sup>PR</sup> Manufacturing Systems Lab ME 340 <sup>PR</sup> Dynamics ME 350 <sup>PR</sup> Fluid Mechanics ME 350L <sup>PR</sup> Fluid Mechanics Lab	3 1 3 3 .5	ME 360 <sup>PR</sup> Heat Transfer  ME 360L <sup>PR</sup> Heat Transfer Lab  ME 400 <sup>PR</sup> Mechanical Design  ME 400L <sup>PR</sup> Mechanical Design Lab  ENGR 360 <sup>PR</sup> Probability & Eng Statistics	C
ME 320 <sup>PR</sup> Manufacturing Systems ME 320L <sup>PR</sup> Manufacturing Systems Lab ME 340 <sup>PR</sup> Dynamics ME 350 <sup>PR</sup> Fluid Mechanics ME 350L <sup>PR</sup> Fluid Mechanics Lab CS 111 Programming for Science & Engineering	3 1 3 3 .5	ME 360 <sup>PR</sup> Heat Transfer  ME 360L <sup>PR</sup> Heat Transfer Lab  ME 400 <sup>PR</sup> Mechanical Design  ME 400L <sup>PR</sup> Mechanical Design Lab  ENGR 360 <sup>PR</sup> Probability & Eng Statistics  MATH 237 <sup>PR</sup> Math Meth. for Phys. Sciences	C
ME 320 <sup>PR</sup> Manufacturing Systems ME 320L <sup>PR</sup> Manufacturing Systems Lab ME 340 <sup>PR</sup> Dynamics ME 350 <sup>PR</sup> Fluid Mechanics ME 350L <sup>PR</sup> Fluid Mechanics Lab CS 111 Programming for Science & Engineering CS 111 L Programming for Science & Eng Lab	3 1 3 3 .5 2	ME 360 <sup>PR</sup> Heat Transfer  ME 360L <sup>PR</sup> Heat Transfer Lab  ME 400 <sup>PR</sup> Mechanical Design  ME 400L <sup>PR</sup> Mechanical Design Lab  ENGR 360 <sup>PR</sup> Probability & Eng Statistics  MATH 237 <sup>PR</sup> Math Meth. for Phys. Sciences  Core Course <sup>1</sup>	C
ME 320 <sup>PR</sup> Manufacturing Systems ME 320L <sup>PR</sup> Manufacturing Systems Lab ME 340 <sup>PR</sup> Dynamics ME 350 <sup>PR</sup> Fluid Mechanics ME 350L <sup>PR</sup> Fluid Mechanics Lab CS 111 Programming for Science & Engineering	3 1 3 3 .5 2 1	ME 360 <sup>PR</sup> Heat Transfer  ME 360L <sup>PR</sup> Heat Transfer Lab  ME 400 <sup>PR</sup> Mechanical Design  ME 400L <sup>PR</sup> Mechanical Design Lab  ENGR 360 <sup>PR</sup> Probability & Eng Statistics  MATH 237 <sup>PR</sup> Math Meth. for Phys. Sciences	
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ME 320 <sup>PR</sup> Manufacturing Systems ME 320L <sup>PR</sup> Manufacturing Systems Lab ME 340 <sup>PR</sup> Dynamics ME 350 <sup>PR</sup> Fluid Mechanics ME 350L <sup>PR</sup> Fluid Mechanics Lab CS 111 Programming for Science & Engineering CS 111 L Programming for Science & Eng Lab Core Course <sup>1</sup> Summer	3 1 3 3 .5 2 1 3 16.5 Credits	ME 360 <sup>PR</sup> Heat Transfer  ME 360L <sup>PR</sup> Heat Transfer Lab  ME 400 <sup>PR</sup> Mechanical Design  ME 400L <sup>PR</sup> Mechanical Design Lab  ENGR 360 <sup>PR</sup> Probability & Eng Statistics  MATH 237 <sup>PR</sup> Math Meth. for Phys. Sciences  Core Course <sup>1</sup> Core Course <sup>1</sup>	
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ME 320 <sup>PR</sup> Manufacturing Systems ME 320L <sup>PR</sup> Manufacturing Systems Lab ME 340 <sup>PR</sup> Dynamics ME 350 <sup>PR</sup> Fluid Mechanics ME 350L <sup>PR</sup> Fluid Mechanics Lab CS 111 Programming for Science & Engineering CS 111 L Programming for Science & Eng Lab Core Course <sup>1</sup> Summer  Fall ME 380 <sup>PR</sup> Mechatronics ME 380L <sup>PR</sup> Mechatronics Lab	3 1 3 3 .5 2 1 3 16.5 Credits  Credits  3 1	ME 360 <sup>PR</sup> Heat Transfer  ME 360L <sup>PR</sup> Heat Transfer Lab  ME 400 <sup>PR</sup> Mechanical Design  ME 400L <sup>PR</sup> Mechanical Design Lab  ENGR 360 <sup>PR</sup> Probability & Eng Statistics  MATH 237 <sup>PR</sup> Math Meth. for Phys. Sciences  Core Course <sup>1</sup> Core Course <sup>1</sup> Spring  ME 420 <sup>PR</sup> System Dynamics  ME 420L <sup>PR</sup> System Dynamics Lab	
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ME 320 <sup>PR</sup> Manufacturing Systems ME 320L <sup>PR</sup> Manufacturing Systems Lab ME 340 <sup>PR</sup> Dynamics ME 350 <sup>PR</sup> Fluid Mechanics ME 350L <sup>PR</sup> Fluid Mechanics Lab CS 111 Programming for Science & Engineering CS 111 L Programming for Science & Eng Lab Core Course <sup>1</sup> Summer  Fall  ME 380 <sup>PR</sup> Mechatronics ME 380L <sup>PR</sup> Mechatronics Lab ME 441PR Capstone Design I ME 441L <sup>PR</sup> Capstone Design I Lab ME 410 Special Topics in ME <b>OR</b> Core Course <sup>1</sup> Core Course <sup>1</sup>	3 1 3 3 .5 2 1 3 16.5 Credits  Credits  3 1 3 1 3 1 3 1 3 3 1 3 3	ME 360 <sup>PR</sup> Heat Transfer  ME 360L <sup>PR</sup> Heat Transfer Lab  ME 400 <sup>PR</sup> Mechanical Design  ME 400L <sup>PR</sup> Mechanical Design Lab  ENGR 360 <sup>PR</sup> Probability & Eng Statistics  MATH 237 <sup>PR</sup> Math Meth. for Phys. Sciences  Core Course <sup>1</sup> Core Course <sup>1</sup> Spring  ME 420 <sup>PR</sup> System Dynamics  ME 420L <sup>PR</sup> System Dynamics Lab  ME 442L <sup>PR</sup> Capstone Design II  ME 442L <sup>PR</sup> Capstone Design II Lab  ME 410 Special Topics in ME <b>OR</b> Core Course <sup>1</sup> Core Course <sup>1</sup>	
ME 320 <sup>PR</sup> Manufacturing Systems ME 320L <sup>PR</sup> Manufacturing Systems Lab ME 340 <sup>PR</sup> Dynamics ME 350 <sup>PR</sup> Fluid Mechanics ME 350L <sup>PR</sup> Fluid Mechanics Lab CS 111 Programming for Science & Engineering CS 111 L Programming for Science & Eng Lab Core Course <sup>1</sup> Summer  Fall ME 380 <sup>PR</sup> Mechatronics ME 380L <sup>PR</sup> Mechatronics Lab ME 441PR Capstone Design I ME 441L <sup>PR</sup> Capstone Design I Lab ME 410 Special Topics in ME <b>OR</b> Core Course <sup>1</sup>	3 1 3 3 .5 2 1 3 16.5 Credits  Credits  3 1 3 1 3 1 3 1 3 1	ME 360 <sup>PR</sup> Heat Transfer  ME 360L <sup>PR</sup> Heat Transfer Lab  ME 400 <sup>PR</sup> Mechanical Design  ME 400L <sup>PR</sup> Mechanical Design Lab  ENGR 360 <sup>PR</sup> Probability & Eng Statistics  MATH 237 <sup>PR</sup> Math Meth. for Phys. Sciences  Core Course <sup>1</sup> Core Course <sup>1</sup> Spring  ME 420 <sup>PR</sup> System Dynamics  ME 420L <sup>PR</sup> System Dynamics Lab  ME 442L <sup>PR</sup> Capstone Design II  ME 442L <sup>PR</sup> Capstone Design II Lab  ME 410 Special Topics in ME OR Core Course <sup>1</sup>	

## **NOTES**

<sup>\*</sup> Students are encouraged to take a summer course to relieve the credit load during this semester

 $<sup>^{1}</sup>$ Choose one course from each of the Core Requirements listed on the reverse side.

<sup>&</sup>lt;sup>2</sup> Course may satisfy both a Major and a Core requirement. CHEM 113 and PHYS 113 will satisfy the Scientific Endeavor and Science in Context Core requirements, MATH 129 will satisfy the Quantitative Reasoning Core requirement.

PR Course has a prerequisite – check college catalog.

<sup>&</sup>lt;sup>CR</sup> Course has a co-requisite – check college catalog.