

Bachelor of Science in Mechanical Engineering

Department of Civil & Mechanical Engineering



Fall 2020 – total 120 credit hours

All engineering & technical elective courses must have a combined minimum GPA of 2.0.

Course sequencing follows the academic year and assumes beginning the program in the fall semester.

P = Pre-requisite, C = Co-requisite, DC = Design Content

1 st semester 15 credits	MA 16500* (4) P: MA 15400 or 15900 with C- or better or placement Analytical Geo. & Calculus I	CHM 11500* (4) P: CHM 11100 or 1 yr. H.S. C: MA 15400 Chemistry	ENGR 12700 (4) C: MA 16500 Engineering Fundamentals I	ENGL 13100* (3) P: ENGL 12900 with C or better or placement Elementary Composition I		
2 nd semester 18 credits	MA 16600* (4) P: MA 16500 with C- or better Analytical Geo. & Calculus II	PHYS 15200* (5) C: MA 16600 Mechanics	ENGR 12800 (4) P: ENGR 12700 C: MA 16500, ENGL 13100 or COM 11400 Engineering Fundamentals II	ME 16000 (2) P: MA 16500 C: ENGR 12800 Solid Modeling	COM 11400* (3) Fundamentals of Speech	
3 rd semester 17 credits	MA 26100 (4) P: MA 16600 with C- or better Multivariate Calculus	MA 35100 (3) P: MA 16600 with C- or better Elementary Linear Algebra	PHYS 25100 (5) P: PHYS 15200 with C or better C: MA 26100 Heat, Electricity, & Optics	ME 25000 (3) P: PHYS 15200 C: MA 26100 Statics	CS 22700 (2) P: ENGR 12800 Intro to C Programming	
4 th semester 15 credits	MA 36300 (3) P: MA 26100 with C- or better C: MA 35100 Differential Equations	ME 25100 (3) P: ME 25000 C: MA 36300 Dynamics	ME 20000 (3) DC P: CHM 11500 C: MA 26100 Thermodynamics I	ME 25200 (3) DC P: ME 25000 Strength of Materials	ECE 20100 (3) C: MA 26100 Linear Circuit Analysis I	
5 th semester 13 credits	ME 31800 (3) DC P: ME 20000, ME 25100, MA 36300 Fluid Mechanics	ME 36100 (3) DC P: ME 16000, ME 25100, MA 36300 Kinematics & Dynamics Mach	ME 30300 (2) P: CHM 11500, PHYS 25100 C: ME 25200 Materials Science and Engr	ME 33100 (3) DC P: ME 25100, MA 36300 System Dynamics	ME 29300 (2) P: COM 11400, ENGL 13100, ECE 20100 Measurement & Instrument	
6 th semester 14 credits	ME 30100 (3) DC P: ME 20000 Thermodynamics II	ME 30400 (1) P: ME 29300, ME 30300 Mechanics & Materials Lab	ME 31900 (1) DC P: ME 29300, ME 31800 Fluid Mechanics Lab	ME 32100 (3) DC C: ME 31800 Heat Transfer	ME 36900 (3) DC P: ME 36100, ME 25200, ME 30300 C: ME 30400 Design of Machine Elements	ME 33300 (3) DC P: ME 33100 Automatic Control Systems
7 th semester 13 credits	ME 48700(3) DC or ENGR 41000* (3) DC P: ME 32100, ME 36900 C: ME 32200 Senior Design I	ME 32200 (1) P: ME 29300, ME 32100 C: ME 31900 Heat Transfer Lab	Technical Elective (3) Group 1	Technical Elective (3) Group 1	General Education Elective* (3) Category B.5	
8 th semester 15 credits	ME 48800 (3) DC or ENGR 4110 (3) DC P: ME 48700 or ENGR 41000 Senior Design II	Technical Elective (3) Group 1	Technical Elective (3) Group 1 or 2	General Education Elective* (3) Category B.6	General Education Elective* (3) Category B.7	

*All courses used to fulfill General Education Requirements require a grade of C- or better.

Key: Math & Science Freshmen Engineering Civil Engineering Mechanical Engineering General Education