

First year				Sophomore year			
FALL		SPRING		FALL		SPRING	
ENGL 100* <u>OR</u> ENGL 101* (English 1) P: see catalog	3	ENGL 102* (English 2) P: ENGL 100 or 101 with 'C' or better	3	COMM 111* (Public Speaking)	3	General Education* H/FA/S&BS	3
MATH 242 (Calculus 1) P: see catalog	5	MATH 243 (Calculus II) P: MATH 242 with 'C' or better	5	MATH 344 (Calculus 3) P: MATH 243 with 'C' or better	3	MATH 555 (Differential Equations) P: MATH 243 with 'C' or better	3
CHEM 211 & L (General Chemistry 1) C: see catalog	5	PHYS 313 (Physics for Scientists I) C: MATH 243 with 'C' or better	4	PHYS 314 (Physics for Scientists II) P: MATH 243, PHYS 313 with 'C' or better	4	ME 398 (Thermodynamics 1) P: MATH 243 and PHYS 313 with 'C' or better	3
IME 222 (Engineering Graphics) P: MATH 123 or equivalent with 'C' or better	2	PHYS 315 (Physics I Lab) P: MATH 242 with 'C' or better C: PHYS 313	1	ME 250 (Materials Engineering) P: CHEM 211 and MATH 242 with 'C' or better	3	ECE 282 & L (Circuits 1) PCC: MATH 243 with 'C' or better	4
IME 222 L (Engineering Graphics Lab) P: MATH 123 or equivalent with 'C' or better C: IME 222	1	General Education* H/FA/S&BS/FYS	3	ME 251 (Materials Engineering Lab) C: ME 250	1	AE 333 (Mechanics of Materials) P: AE 223 PCC: MATH 344 with 'C' or better	3
		Engineering+ requirement 1 of 3**		AE 223 (Statics) P: PHYS 313 PCC: MATH 243 with 'C' or better	3	ME 335 (Dynamics for ME Engineers) P: AE 223 and MATH 344 with 'C' or better	3
	16		16		17		19
Junior year				Senior year			
FALL		SPRING		FALL		SPRING	
PHIL 385* (Engineering Ethics) Juniors or Seniors only	3	General Education* H/FA/S&BS	3	Natural Science Elective*	3	Mechanical Elective^ P: see catalog & audit	3
ME 325 (Numerical Methods) P: MATH 555 and ECE 282 with 'C' or better	3	ME 475 (Integrated Design & Mfg) P: ME 250, ME 251, AE 333 with 'C' or better PCC: ME 439	3	ME 541 (Mech Engineering Design II) P: ME 339, ME 439. PCC: ME 475 with 'C' or better	3	Thermal/Fluids/Energy/Environmental Elective^ P: see catalog & audit	3
ME 339 (Design of Machinery) P: IME 222 & ME335 with 'C' or better	3	ME 522 (Heat Transfer) P: ME 325, ME 521 and PHYS 314 with 'C' or better	3	ME 659 (Mechanical Control Systems) P: ECE 282 and MATH 555 OR ECE 383 with 'C' or better	3	ME 633 & L (ME Systems Lab) P: ME 522 and ME 533 with 'C' or better	3
ME 521 & L (Fluid Mechanics) P: ME 398, MATH 555, ME 335 with 'C' or better	3	ME 533 & L (ME Lab) P: AE 333, ECE 282, ME 325, ENGL 102, COMM 111, PHYS 315 PCC: ME 522 with 'C' or better	3	Thermal Design Elective^ P: see catalog & audit	3	ME 662 (Senior Capstone Design) P: ME 541, ME 522 With 'C' or better PCC: ME 633, ME 659 (LAST SEMESTER ONLY)	3
ME 439 (ME Design 1) P: ME 250, ME 251, AE 333, MATH 555 with 'C' or better	3	Technical Open Elective^ P: see catalog & audit	3	Mech Design Elective^ P: see catalog & audit	3		
Engineering+ requirement 2 of 3**		ME 502 (Thermodynamics II) P: ME 398 w/ C or better <u>OR</u> ME 702 (Energy & Sustainability) PCC: ME 522 or PHYS 551 w/C or better	3	Engineering+ requirement 3 of 3**			
	15		18		15		12

Notes: please read the following page carefully!

Check all degree/grade/graduation/ pre-requisite & co-requisite requirements with your course catalog term requirements and degree work audit.

All major courses and pre-requisite courses **need a "C" or better**. Grades of C- or below do not meet pre-requisite or minimum grade requirements. Review your catalog term/ degree/graduation requirement before enrolling in a class.

Pre-requisite (P) means the course must be taken as a prior condition for enrolling in the next course. For pre-req courses the grade requirement is a "C" or better.

Co-requisite (C) means the course must be taken simultaneously with the other course listed as a co-requisite.

Pre-requisite with CC (PCC) means the course can be completed as a pre-req, before taking the listed course, OR it can also be taken at the same time with the other course listed

* **GenEd and Natural Science Electives** Courses must be from an approved list. Must check catalog requirement and degree audit for options.

****Engineering+** activities need Chair's pre-approval, and course must be from an approved list (wichita.edu/engr+)

^ **Technical Electives** should be chosen with faculty advisor

GenEd (21 credit hours). Check your catalog term, degree work audit, and with your advisor

Math & NS (33 credit hours). Check your catalog term, degree work audit, and with your advisor

Major and Electives (73 credit hours). Check your catalog term, degree work audit, and with your advisor

E+ (0-3 credit hour options). Check your catalog term, degree work audit, and with your advisor

Total 128 credit hours for student with catalog term of fall 2018 and after.