

First year				Sophomore year			
FALL		SPRING		FALL		SPRING	
ENGL 101 (English 1) Pre-req: see catalog	3	ENGL 102 (English 2) Pre-req: ENGL 101 with 'C' or better	3	COMM 111 (Public Speaking) Pre-req: see catalog	3	General Education* H/FA/S&BS see catalog & Degree Audit Must be from an approved list	3
MATH 242 (Calculus 1) Pre-req: see catalog with 'C' or better	5	MATH 243 (Calculus II) Pre-req: MATH 242 with 'C' or better	5	MATH 344 (Calculus 3) Pre-req: MATH 243 with 'C' or better	3	MATH 555 (Differential Equations) Pre-req: MATH 243 with 'C' or better	3
CHEM 211 & L (General Chemistry 1) co-req: see catalog	5	PHYS 313 (Physics for Scientists I) Co-req: MATH 243 with 'C' or better	4	PHYS 314 (Physics for Scientists II) Pre-req: MATH 243, PHYS 313 with 'C' or better	4	ME 398 (Thermodynamics 1) Pre-req: MATH 243 and PHYS 313 with 'C' or better	3
IME 222 (Engineering Graphics) Pre-req: MATH 123 or equivalent with 'C' or better	2	PHYS 315 (Physics I Lab) Pre-req: MATH 242 Co-req: PHYS 313 with 'C' or better	1	ME 250 (Materials Engineering) Pre-req: CHEM 211 and MATH 242 with 'C' or better	3	ME 325 (Numerical Methods) Pre-req: MATH 243 and PHYS 313 with 'C' or better	3
IME 222 L (Engineering Graphics Lab) Pre-req: MATH 123 or equivalent with 'C' or better/Co-re: IME 222	1	General Education* H/FA/S&BS/FYS see catalog & Degree Audit Must be from an approved list	3	ME 251 (Materials Engineering Lab) Co-req: ME 250 with 'C' or better	1	AE 333 (Mechanics of Materials) Pre-req: AE 223 Pre or co-req: MATH 344 with 'C' or better	3
		Engineer + requirement 1of 3** See webpage & the list of approved courses or activities		AE 223 (Statics) Pre-req: PHYS 313 Co-req: MATH 243 with 'C' or better	3	ME 335 (Dynamics for ME Engineers) Pre-req: AE 223 and MATH 344 with 'C' or better	3
	16		16		17		18
Junior year				Senior year			
FALL		SPRING		FALL		SPRING	
PHIL 385 (Engineering Ethics) Juniors or Seniors only	3	General Education* H/FA/S&BS see catalog & Degree Audit Must be from an approved list	3	Natural Science/ GenEd see catalog & Degree Audit. Must be from an approved list	3	Mechanical Elective* Pre-req: see catalog & advisor	3
ECE 282 & L (Circuits 1) Pre or co-req: MATH 243 with 'C' or better	4	ME 475 (Integrated Design & Mfg) Pre-req: ME 250, ME 251, AE 333 with 'C' or better Pre or co-req ME 439	3	ME 541 (Mech Engineering Design II) Pre-req: ME 339, ME 439. Pre or Co-req: ME 475 with 'C' or better	3	ME 659 (Mechanical Control Systems) Pre-req: ECE 282 and MATH 555 OR ECE 383 with 'C' or better	3
ME 339 (Design of Machinery) Pre-req: IME 222 & ME335 with 'C' or better	3	ME 522 (Heat Transfer) Pre-req: ME 325, ME 521 and PHYS 314 with 'C' or better	3	ME 625 (Application in Thermal Eng) Pre-req: ME 521, ME 522 Pre or Co-req: ME 533 with 'C' or better	3	ME 633 & L (ME Systems Lab) Pre-req: ME 522 and ME 533 with 'C' or better	3
ME 521 & L (Fluid Mechanics) Pre-req: ME 398, MATH 555, ME 335 with 'C' or better	3	ME 533 & L (ME Lab) Pre-req: AE 333, ECE 282, ME 325, ENGL 102, COMM 111, PHYS 315 Pre or co-req: ME 522 with 'C' or better	3	Thermal Design Elec* Pre-req: see catalog & advisor	3	ME 662 (Senior Capstone Design) Pre-Req: ME 541, ME 522 With 'C' or better Pre or Co-req: ME 633, ME 659 (LAST SEMESTER ONLY)	3
ME 439 (ME Design 1) Pre-req: ME 250, ME 251, AE 333, MATH 555 with 'C' or better	3	Technical Open Elective* Pre-req: see catalog & advisor	3	Mech Design Elective* Pre-req: see catalog & advisor	3		
Engineer + requirement 2of 3** See webpage & the list of approved courses/ activities		Thermal Elective* Pre-req: see catalog & advisor	3	Engineer + requirement 3of 3** See webpage & the list of approved courses/activities			
	16		18		15		12

Notes: please read the following notes carefully!

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

All major courses and pre-requisite courses **need a "C" or better**. Review your catalog term/ degree/graduation requirement before enrolling in a class.

Pre-req 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-req means the course must be taken simultaneously with the other course listed as a co-requisite.

Pre-req with CC (Pre or Co-req) 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 Elective** Courses must be from an approved list. Must check with advisor and degree audit. Check catalog requirement

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

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

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

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

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

Total 128 crd hrs for student with catalog term of fall 2018 and after.

Note: This check sheet is the same as the ME check sheet of Fall '20 and after (except 1 change in pre-req requirements of ME339. Previously ME335 was a co-req, now it's a pre-req for ME339).