

Engineering Technology

Concentration: Mechatronics

Catalog Term: Fall 2019



Total credit hours: 120

FRESHMAN (at WSU/community/technical college)			
FALL	Hrs	SPRING	Hrs
WSUE 102A: First Year Seminar in Technology and Innovation <i>General Education (S&BS)</i>	3	General Education* FA Note a	3
COMM 111 * Public Speaking	3	General Education (H) <i>Recommended: PHIL 125</i> Note a	3
MATH 242 Calculus I P: MATH 111 and 123 with "C"	5	MATH 243 Calculus II P: MATH 242 with "C"	5
ENGL 101 * College English I P: See Course Catalog	3	ENGL 102 * College English II P: ENGL 101 with "C"	3
Total Hours	14	Total Hours	14

SOPHOMORE (at WSU/community/technical college)			
FALL	Hrs	SPRING	Hrs
General Education (S&BS) <i>Recom: ECON 201 (Macro) or PSY 111 or SOC 111</i>	3	General Education* Further Study H/S&BS Note a	3
PHYS 213 General College Physics I P: MATH 123 with "C"	5	PHYS 214 General College Physics II P: PHYS 213 or 313 OR CHEM 211 General Chemistry I Co-req: MATH 111	5
CS 194 Intro to Digital Design P: MATH 111	4		
		ENGT 201 Fundamentals of Eng Tech P: WSUE 102A or equiv	1
		Technical Elective	3
Technical Elective	3	Technical Elective	3
Total Hours	15	Total Hours	15

JUNIOR (at WSU)			
FALL	Hrs	SPRING	Hrs
IME 222 + Lab Engineering Graphics P: MATH123 with "C"	3	CS211* Intro to Programming # P: MATH111 or or MIS 310 P: MATH 111 + Snr std	4
IME 255 * Engineering Economy Coreq: MATH 242	3	ENGT 312 Applied Statics C: MATH 243; P: PHYS 213 with "C-" (Spring only)	3
PHIL 385 Engineering Ethics P: Junior or senior standing	3	ENGT 354 * Statistical Process Control P: MATH 243 (Spring only)	3
IME 258 Manufacturing Methods I P: MATH 123 with "C"	3	ENGT 320 Circuits Technology P: MATH242 with "C-" (Spring only)	4
Technical Elective	3	Technical Elective	3
Engineer of 2020 Requirement (1 of 3) See notes		Engineer of 2020 Requirement (2 of 3) See notes	
Total Hours	15	Total Hours	17

SENIOR (at WSU)			
FALL	Hrs	SPRING	Hrs
ENGT 401 * Senior Design Project I P: ENGT 201 or 301; Dept approval	3	ENGT 402* Senior Design Project II P: ENGT 401	3
ENGT 323 Introduction to Fluids P: ENGT 312 & MATH 243 with "C-" (Fall Only)	3	ENGT 410 Robotics Technology P: ENGT 361 with "C-" or better (Spring only)	3
ENGT 313 Applied Dynamics Coreq: MATH 243; P: ENGT 312 with "C-" (Fall only)	1	ENGT 348 Machine Elements P: ENGT 312, ENGT 313, ENGT 334 with "C-" (Spring only)	3
ENGT 334 Intro to Strength & Mech of Materials P:ENGT 312 & MATH 243 with "C-" (Fall Only)	3	ENGT 411 Micro-based Mechanical Sys P: ENGT361 & ENGT410 with "C-" (Spring only)	3
ENGT 497 Electrical Mach & Elect Circ P: ENGT320 / EE282 with "C-" (Fall only)	4		
ENGT 361 Industrial Controls & Instrum. P: ENGT320 & MATH243 (Fall O)	4	Engineer of 2020 Requirement (3 of 3) See notes	
Total Hours	18	Total Hours	12

Notes: Students admitted after fall 2007 must fulfill the Engineer 2020 requirements.

a. Humanities/Fine Arts/Social & Behavioral Science Courses must be from an approved list which appears in the Schedule of Courses and/or the community college Transfer Guides.

* Recommended option

students who take MIS 310, will need to take 1 additional credit hour of Technical Electives

* May be available as an online or hybrid class (upto 48 credit hours).

Last Updated: 01/2019