

Engineering Technology Mechatronics Track

Fall 2021 Suggested Schedule

Total Credit Hours

120



Freshman – 1 st Semester			17
WSUE102A	First Year Seminar in Tech and Innovation (S&BS + FYS)	3	
COMM111	Public Speaking	3	
MATH242	Calculus I P: MATH123	5	
ENGL101	College English I	3	
	General Education - FA	3	

Freshman – 2 nd Semester			15
PHIL125	Intro to Logic (H)	3	
MATH243	Calculus II P: MATH242	5	
ENGL102	College English II P: ENGL101	3	
CS194/L	Intro Digital Design (with lab) P: MATH111	4	

Sophomore – 1 st Semester			12
ECON201	Principles of Macro Econ (S&BS) or IME255	3	
PHYS313	Physics for Scientists I P/C: MATH243 with C	4	
PHYS315	Univ. Physics Lab I P: MATH242 P/C: PHYS313	1	
ENGT201	Intro Design Project P: WSUE102A, ENGR302 or ID300	1	
AC121	Cybersecurity Awareness	3	

Sophomore – 2 nd Semester			15
PHYS314	Physics for Scientists II P/C: PHYS313, MATH243	4	
PHYS316	University Physics Lab II P/C: PHYS314	1	
ENGT312	Applied Statics (spr & su only) P/C: MATH243	3	
ENGT320	Circuits Technology (spr only) P: MATH 242 with C-	4	
	Technical Elective	3	

Junior – 1 st Semester			16
IME222/L	Engineering Graphics (with lab) P: MATH123	3	
PHIL385	Engineering Ethics P: Junior/senior standing	3	
ENGT313	Applied Dynamics (fall only) P: ENGT312	1	
ENGT361	Indus Controls & Instr (fall) P: ENGT320, MATH243	4	
ENGT334	Intro Stren/Mech of Mats (fall) P: MATH243 C: ENGT312	3	
ENGT301	Intermediate Design Project P: ENGT201 or ENGR205	2	

Junior – 2 nd Semester			17
CS211	Introduction to Programing P: MATH111	4	
IME258	Manufacturing Methods P: MATH123, IME222	3	
IME258L	Manuf Methods/Materials Lab C: IME258	1	
ENGT354	Statistical Process Control (spr only) P/C: MATH243	3	
ENGT348	Machine Elements (spr only) P: ENGT 334	3	
	Technical Elective	3	

Senior – 1 st Semester			13
ENGT 401	Senior Design Project I P: ENGT301 (fall only)	3	
ENGT497/L	Elec Mach/Elect Cir (fall only) P: ENGT320 C: ENGT497L	4	
ENGT323	Intro to Fluids (fall only) P: MATH243 C: ENGT312	3	
	Technical Elective	3	

Senior – 2 nd Semester			15
ENGT 402	Senior Design Project II P: ENGT401 (Spring only)	3	
ENGT410	Robotics Technology P: ENGT 361 (Spring only)	3	
ENGT411	Micro-based Mech Sys P: ENGT361 (Sprg only)	3	
	Technical Elective	3	
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NOTES:

- All first-time-in-college students must take WSUE 102A within their first two semesters.*
- Transfer students can take ENGR205 to replace WSUE102A and ENGT201. Extra credit hours may be required*
- Students must fulfill the Engineer 2020 requirements.*
- All engineering prerequisites need to be completed with C- or higher*