



SOFTWARE ENGINEERING 2023-2024

Recommended Four-Year Course Plan
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 To speak with an advisor contact (928) 782-1914

Year One			
Summer Before			
Course	Title	Units	Complete
MAT 187	Precalculus*	5	AWC
Total		5	

Fall - Semester One			
Course	Title	Units	Complete
ENG 101	Freshman English	3	AWC
CHM 151~	General Chemistry I	4	AWC
MAT 220~	Calculus I with Analytic	5	AWC
EGR 188~	Fundamentals of EGR	4	AWC
Total		16	

Spring - Semester Two			
Course	Title	Units	Complete
ENG 102~	Freshman English	3	AWC
MAT 230~	Calculus II with Analytic	5	AWC
CHM 152~	General Chemistry II	4	AWC
EGR 123~	Structured Programing	3	AWC
AGEC-S	Social Science	3	
Total		18	

Total Year 1 Credits	38	
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Year Three			
Summer Before			
Course	Title	Units	Complete
SIE 277	Object Oriented Design	3	UA
Total		3	

Fall- Semester Five			
Course	Title	Units	Complete
SFWE 101	Intro to SFWE	3	UA
ECE 275	Computer Programming II	3	UA
SFWE 201 (Y)	Sophomore Colloquium	1	UA
ECE 274A	Digital Logic	4	UA
SFWE 301* (Y)	SW Req's, Anlysis, & Test	3	UA
Total		14	

Spring- Semester Six			
Course	Title	Units	Complete
SFWE Elective	See Advisor	3	UA
SFWE 401	SW Assurance & Security	3	UA
SFWE 302	SW Design Process	3	UA
CSC 355 (Y)	Discrete Structures & Algo	3	UA
SIE 305	Engineering Prob & Stats	3	UA
Total		15	

Total Year 3	32	
Total Year 4	31	

Year Two			
Fall - Semester Three			
Course	Title	Units	Complete
MAT 241~	Calculus III	4	AWC
PHY 121~	Physics I	4	AWC
EGR 251+	Statics	3	AWC
AGEC-S	Art	3	AWC
MAT 227	Discrete Math	3	AWC
Total		17	

Spring - Semester Four			
Course	Title	Units	Complete
PHY 131~	Physics II	4	AWC
AGEC-S	Social Science	3	AWC
AGEC-S*	General Elective	3	AWC
AGEC-S	Humanities-WI	3	AWC
EGR 207+	Elements of Elec. Egr.	3	AWC
Total		16	

Total Year 2 Credits	33	
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	*MAT 262 Intro to Ord. Diferential Eq.	AWC required to earn the AS in Engineering
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Year Four			
Fall- Semester Seven			
Course	Title	Units	Complete
ECE 311	Engineering Ethics	1	UA
SFWE 403	SW Project Management	3	UA
ECE 369A	Computer Organization	4	UA
SFWE Elective	See Advisor	3	UA
SFWE 491	SW Preceptor	1	UA
ENGR 498A	Senior Design	3	UA
Total		15	

Spring- Semester Eight			
Course	Title	Units	Complete
SFWE 402	SW Dev Ops	4	UA
SFWE Elective	See Advisor	3	UA
SFWE Elective	See Advisor	3	UA
SFWE Elective	See Advisor	3	UA
ENGR 498B	Senior Design	3	UA
Total		16	

(Y)	Section offered in person	
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AS in Engineering	68	
BS Degree	95	
Total	163	