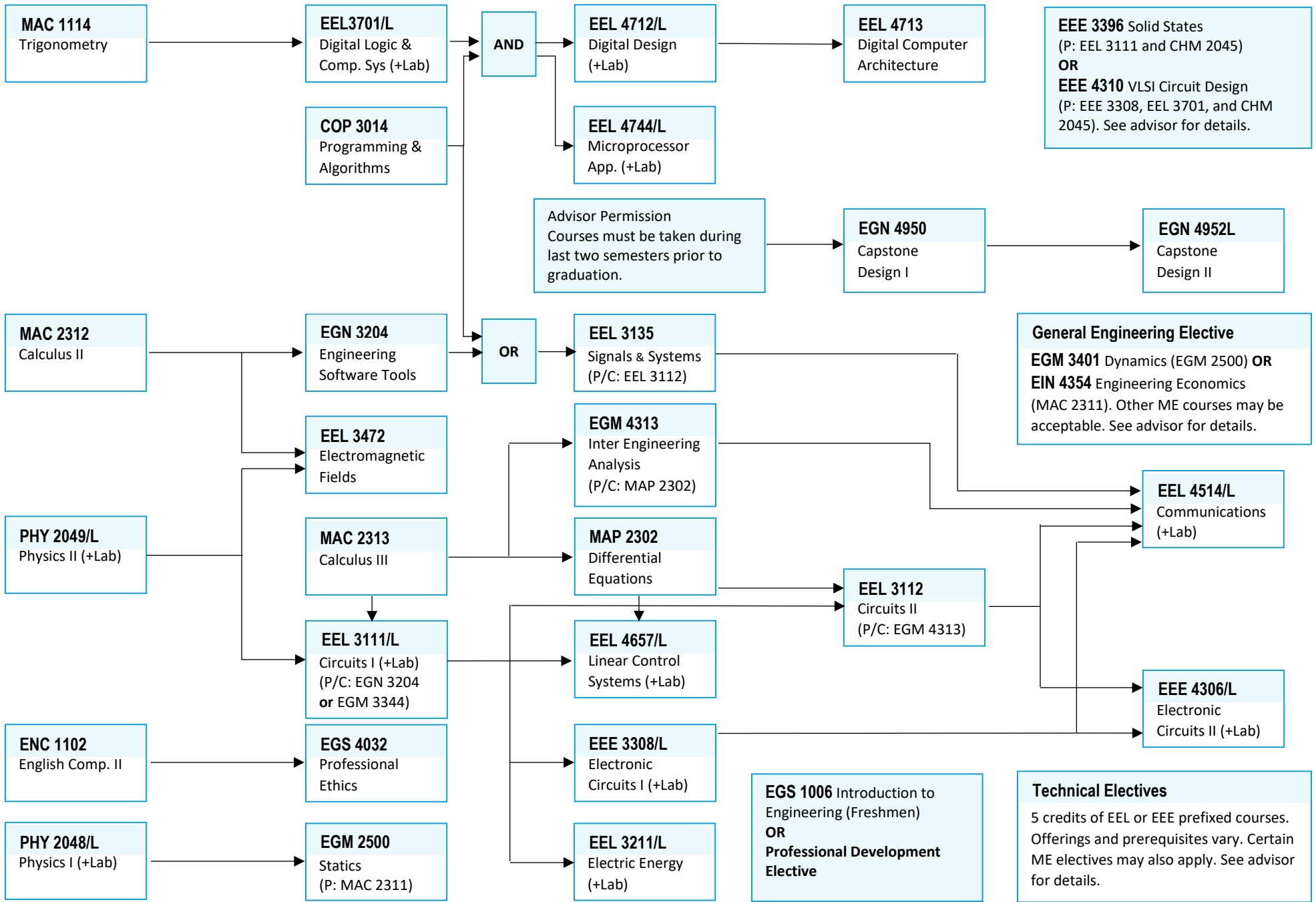
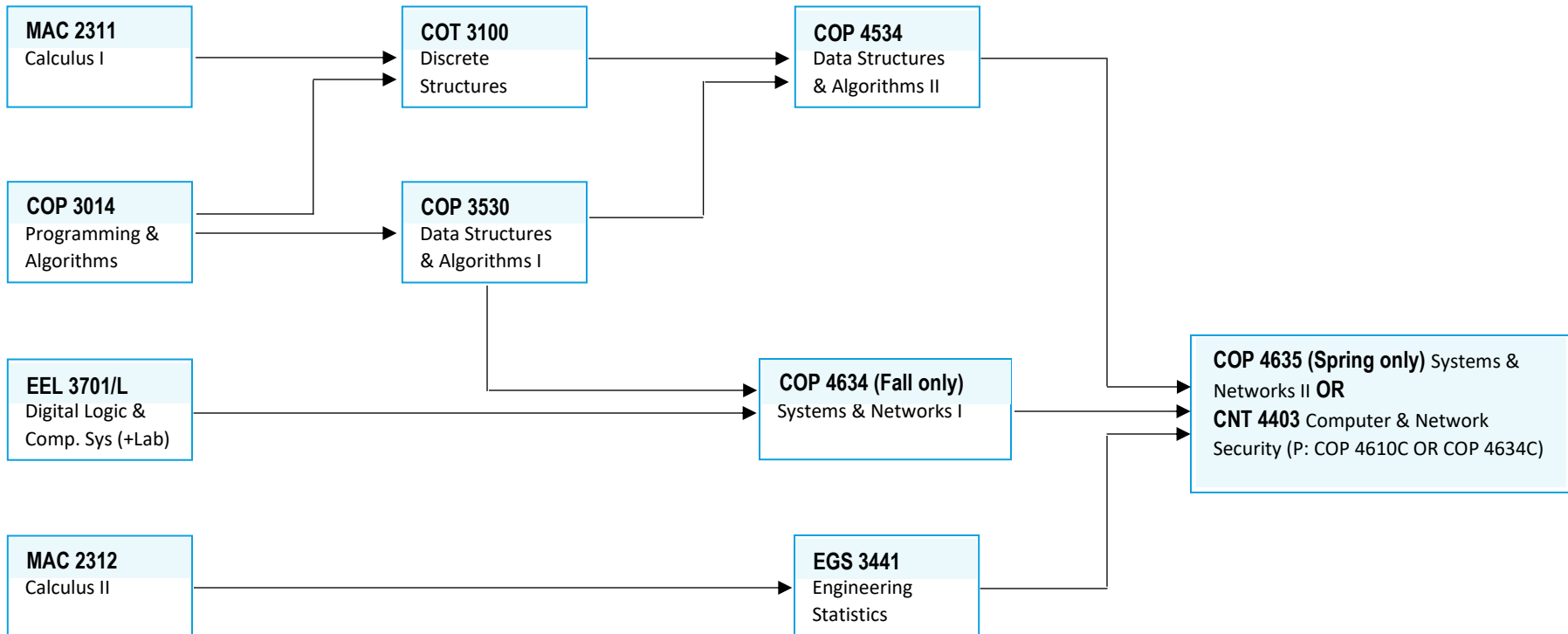


# Dual BSEE and BSCE Flowchart of Required Engineering Courses (Effective Fall 2019)



## Dual BSEE and BSCE Flowchart of Required Computer Science Courses (Effective Fall 2019)



## UWF Dual BS Degrees in Electrical & Computer Engineering (Effective Fall 2019)

LOWER DIVISION COURSES		Credits/min grade
ENC 1101 and ENC 1102	English Composition I and II	6/C-
EGS 1006	Introduction to Engineering (or approved Professional Development Elective)	1
General Studies Social Science/Humanities – only required for students entering without having earned an AA degree from a State of Florida institution or a BS degree from an accredited institution.	See <a href="#">latest catalog edition</a> for details and your advisor for suggested courses.	15/min grade varies
CHM 2045/L	General Chemistry I (+Lab)	4/C
MAC 2311, MAC 2312, MAC 2313	Analytic Geometry and Calculus I, II, and III	12/C
MAP 2302	Differential Equations	3/C
PHY 2048/L, PHY 2049/L	University Physics I and II (+Lab)	8/C
EGM 2500 (PHY 2048, MAC 2311)	Engineering Mechanics-Statics	3
<b>Minimum Total</b>		<b>52</b>
UPPER DIVISION COURSES		
EEL 3111/L (PHY 2049, EGN 3204* OR EGM 3344*, MAC 2313)	Circuits I (+Lab)	4/C
EEL 3112 (EEL 3111, EGM 4313*, MAP 2302)	Circuits II	3/C
EEL 3135 (EEL 3112*, EEL 4834 OR COP 3014 OR EGN 3204)	Discrete-Time Signals and Systems	3/C
EEE 3308/L (EEL 3111, EGN 3204)	Electronic Circuits I (+Lab)	4/C
EEE 3396 (EEL 3111, CHM 2045) <b>OR</b> EEE 4310 (EEE 3308, EEL 3701, CHM 2045)	Solid-State Electronic Devices <b>OR</b> VLSI Circuit Design	3
EEL 3472 (PHY 2049, MAC 2312)	Electromagnetic Fields and Applications I	3/C
EEL 3701/L (MAC 2311* OR MAC 1114 OR MAC 2312)	Digital Logic and Computer Systems (+Lab)	4/C
EEL 3211/L (EEL 3111)	Basic Electric Energy Engineering (+Lab)	4
EEE 4306/L (EEL 3112, EEE 3308/L)	Electronic Circuits II (+Lab)	4
EEL 4514 (EEL 3112, EEL 3135, EGM 4313)	Communications Sys. & Components	3
EEL 4514L (EEE 3308L, C: EEL 4514)	Communications Sys. & Components Lab	1
EEL 4657/L (EEL 3111, MAP 2302)	Linear Control Systems (+Lab)	4
EEL 4712/L (EEL 3701, EEL 4834 OR COP 3014)	Digital Design (+Lab)	4/C
EEL 4713 (EEL 4712)	Digital Computer Architecture	3
EEL 4744/L (EEL 3701, EEL 4834 OR COP 3014)	Microprocessor Applications (+Lab)	4/C
COP 3014 (None)	Programming and Algorithms	3/C
COP 3530 (COP 3014)	Data Structures & Algorithms I	3/C
COP 4534 (COP 3530, COT 3100*)	Data Structures & Algorithms II	3/C
COP 4634 (COP 3530, EEL 3701 OR CDA 3101)	Systems and Networks I	3/C
COP 4635 (COP 4634, COP 4534, EGS 3441) <b>OR</b>	Systems and Networks II <b>OR</b>	3/C
COT 3100 (COP 2253 OR COP 2334 OR COP 3014, MAC 2233 OR MAC 2311)	Discrete Structures	3/C
EGS 4032 (ENC 1102)	Professional Ethics	3
EGN 4950 (Advisor Approval)	Capstone Design I	1/C
EGN 4952L (EGN 4950)	Capstone Design II	2/C
EGN 3204 (MAC 2312)	Software Engineering Tools	1/C
EGM 3401 (EGM 2500, MAC 2311) <b>OR</b> EIN 4354 (MAC 2311), other options	Elements of Dynamics <b>OR</b> Engineering Economy	3
EGM 4313 (MAC 2313, MAP 2302*)	Intermediate Engineering Analysis	3/C
EGS 3441 (MAC 2312)	Engineering Statistics	3/C
Electrical and Computer Engineering (ECE) Electives (any 3000 or higher EEL courses). See advisor for limits/course options.		5
<b>Total Upper Division</b>		<b>90</b>
<b>Total Lower Division</b>		<b>52</b>
<b>Dual BSEE and BSCE Total Credits</b>		<b>142</b>

*Courses between parentheses ( ) are the prerequisites. Prerequisites marked with a "\*" may be taken prior to or during the same term.*

## Timetable of ECE Course Offerings by Semester\*

Fall Semester	Spring Semester	Summer Semester
EEE 3308/L	EEE 3308/L	EEE 4310
EEE 3396	EEE 4306/L	EEL 3111/L
EEE 4306/L	EEL 3111/L	EEL 3472
EEL 3111/L	EEL 3112	EEL 3701/L
EEL 3112	EEL 3135	EEL 4834
EEL 3135	EEL 3211/L	EGN 3204
EEL 3211/L	EEL 3472	EGS 4032
EEL 3701/L	EEL 3701/L	EGS 3441
EEL 4514/L	EEL 4514/L	Technical Electives
EEL 4657/L	EEL 4657/L	
EEL 4712/L	EEL 4713	
EEL 4744/L	EEL 4744/L	
EEL 4834	EEL 4834	
EGM 2500	EGM 2500	
EGM 4313	EGM 4313	
EGN 3204	EGN 3204	
EGN 4950	EGN 4950	
EGN 4952L	EGN 4952L	
EGS 1006	EGS 1006	
EGS 3441	EGS 3441	
EGS 4032	EGS 4032	
EIN 4354	EIN 4354	
Technical Electives	Technical Electives	

\* **Note:** Course offerings are subject to instructor availability and course enrollments. These are typical offerings and should not be taken as a guarantee of course availability.