

## UWF BS (two degrees) in EE and CE

(Updated 3/14, EFFECTIVE FALL 2014)

Lower Division Courses		CREDITS/ Min grade
ENC1101 and ENC 1102	English Composition I and II	6 /C-
EGS 1006 (non-freshmen may choose an advisor approved elective to replace this course).	Intro to Engineering	1
General Studies - 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 latest catalog for details and your advisor for suggested courses	18/min grade varies
CHM2045, 2045L	Chemistry I	4/C*
MAC2311, 2312, 2313	Analytic Geometry and Calculus	12/C*
MAP2302	Elementary Differential Equations	3/C*
PHY 2048/L, 2049/L	Physics with Calculus	8/C*
EGM 2500 (P:PHY 2048 C:MAC2313)	Elements of Statics	2
<b>Minimum Total</b>		<b>54</b>
Upper Division Courses		* need average of C+ combined
EEL 3111/ 3117L (P: MAC2313,PHY2049, C: EGN 3204)	Circuits 1 with lab	4/C
EEL 3112 (P: EEL3111, MAP 2302 C: EGM4313)	Circuits 2	3/C
EEL 3135 (P: Programming** or EGN 3204 C:EEL3112)	Discrete-Time Signals and Systems	3/C
EEE 3308/4308L (P: EEL3111 ,EEL 3117L, EGN3204)	Electronic Circuits 1 with lab	4/C
EEE 3396 (P: EEL3111, CHM 2045) or EEE 4310 (P:EEE 3308, EEL 3701)	Solid-State Electronic Devices or VLSI	3
EEL 3472 (P: PHY2049, MAC 2312)	Electromagnetic Fields and Applications 1	3/C
EEL 3701/L (P: MAC 1114 or higher)	Digital Logic and Computer Systems	4/C
EEL 3211 (P: EEL3111 C: EEL3112)	Basic Electric Energy Engineering	3
EEE 4306/L (P: EEL3112, EEE 3308, 4308L)	Electronics Circuits 2	4
EEL 4514 (P: EEL3112, 3135, EGM 4313)	Communications Systems and Components	3
EEL 4514L (P: EEE3308/4308L, C: EEL 4514)	Communications Sys. and Components Lab	1
EEL 4657 (P: 3112, C: EEL3135)	Linear Control Systems	3
EEL 4657L (C: EEL 4657)	Linear Control Systems Lab	1
EEL 4712/L (P EEL 3701/L, programming**)	Digital Design	4
EEL 4713 (P: EEL 4744/L)	Digital Computer Architecture	3
EEL 4744/L (P: EEL3701/L, programming**)	Microprocessor Applications	4/C
COP 3014 (P: None)	Programming and Algorithms	3/C
COP 3530 (P: COP 3014)	Data Structures 1	3/C
COP 4534 (P: COP 3530, COT 3100)	Data Structures 2	3/C
COP 4634 (P: EEL3701, COP 3530)	Systems and Networks 1	3/C
COP 4635 (P:COP 4634, COP 4534, STA 4321) or CNT 4403 (P:COP 4634)	Systems and Networks 2 or Network Security	3/C
COT 3100 (P: MAC 2311 and COP 3014)	Discrete Structures	3/C
EGS 4032 (P: Jr. Standing, ENC 1102)	Professional Ethics	3
EGN 4950 (Advisor Approval)	Capstone Design I	1/C
EGN 4952L (P: EGN 4950)	Capstone Design II	2/C
Electives Electrical and Computer Engineering (ECE) Electives (any 3000 or higher EEL courses) (See advisor for limits/course options)		5
EGN 3204 (P:MAC 2312)	Software Engineering Tools	1/C
EGM 3401 (P: EGM 2500, MAC 2313) or EIN 4354 (P: MAC 2311)	Elements of Dynamics, or Engineering Economy	3
EGM 4313 (P:MAP 2302)	Intermediate Engineering Analysis	3/C
STA 4321 (P:MAC2312)	Mathematical Statistics	3/C
<b>Total Upper Division</b>		<b>89</b>
<b>Total Lower Division</b>		<b>54</b>
<b>BSEE and BSCEN Total Credits</b>		<b>143</b>

\*\*programming refers to EEL4834 or COP 3014 or equivalent  
pre-requisite courses to EEL/EEE courses need a "C" or higher.