

COMPUTER ENGINEERING - Class of 2015

Total Credits = **120 -123**

Freshman Year *Fall* Semester

Course Code	Description	Cr	
CHM 101	General Chemistry I Lec [GE-N]	3	
CHM 102	General Chemistry I Lab	1	
EGR 105	Foundations of Engineering I	1	
MTH 141	Intro Calculus w/Analytic Geom [GE-MQ]	4	
PHY 203	Elementary Physics I Lec [GE-N]	3	
PHY 273	Elementary Physics I Lab [GE-N]	1	
	General Education Elective*	3	

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Freshman Year *Spring* Semester

Course Code	Description	Cr	
ECN 201	Principles of Microeconomics [GE-S]	3	
EGR 106	Foundations of Engineering II	2	
ELE 208	Intro to Computer Systems	2	
ELE 209	Intro to Computer Systems Lab	1	
MTH 142	Intermed Calc with Analytic Geom [GE-MQ]	4	
PHY 204	Elementary Physics II [GE-N]	3	
PHY 274	Elementary Physics II Lab [GE-N]	1	

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Sophomore Year *Fall* Semester

Course Code	Description	Cr	
CSC 211	Intro Programming and Design	4	
ELE 201	Digital Circuits Design	3	
ELE 202	Digital Circuits Design Lab	1	
MTH 362	Advanced Engineering Mathematics I	3	
	General Education Elective*	3	

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Sophomore Year *Spring* Semester

Course Code	Description	Cr	
CSC 212	Data Structures and Abstractions	4	
ELE 212	Linear Circuit Theory	3	
ELE 215	Linear Circuits Lab	2	
MTH 243	Calculus for Functions of Several Vars	3	
	General Education Elective*	3	

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Junior Year *Fall* Semester

Course Code	Description	Cr	
ELE 305	Intro to Computer Architecture	3	
ELE 313	Linear Systems	3	
ELE 338	Electronics I	3	
ELE 339	Electronics I Lab	1	
MTH/CSC 447	Discrete Mathematical Structures	3	
	General Education Elective*	3	

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Junior Year *Spring* Semester

Course Code	Description	Cr	
ELE 301	Electronic Design Automation	3	
ELE 302	Electronic Design Automation Lab	1	
MTH 451	Intro to Probability and Statistics	3	
	Computer Engineering Elective**	3-4	
	General Education Elective*	3	
	General Education Elective*	3	

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Senior Year *Fall* Semester

Course Code	Description	Cr	
ELE 400	Intro to Professional Practice	1	
ELE 405	Digital Computer Design	3	
ELE 406	Digital Computer Design Lab	1	
ELE 437	Computer Communications	3	
ELE 480	Capstone Design I	3	
	Computer Engineering Design Elective**	3-4	

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Senior Year *Spring* Semester

Course Code	Description	Cr	
ELE 408	Computer Organization	3	
ELE 409	Computer Organization Lab	1	
ELE 481	Capstone Design II	3	
	Computer Engineering Design Elective**	3-4	
	Free elective	3	

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* Note the following *specific* requirements and restrictions for General Education [GE] electives:

-Refer to *specific* Computer Engineering General Education *course requirements* (see 2015 CPE Check Sheet).

Note the following *specific* requirements and restrictions for General Education [GE] electives:

-[GE-EC/ECw] *Must* take at least *six (6)* credits of General Education [GE-EC/ECw], with at least *one (1)* course in writing, [GE-ECw].

-[GE-ECw] Can only take *one (1)* of the following *100-level* writing courses for General Education credit [GE-ECw]: WRT 104, WRT 105, WRT 106.

** Computer Engineering Design Electives are chosen as follows: *three (3)* courses from the following: any ELE 300- or 400-level

course not otherwise required by the major; any ELE 500-level course *with prior approval*; BME/ELE 461; BME 464/465;

CSC 301, 305, 402, 406, 412, 415, 436, 481, 485, 486.

