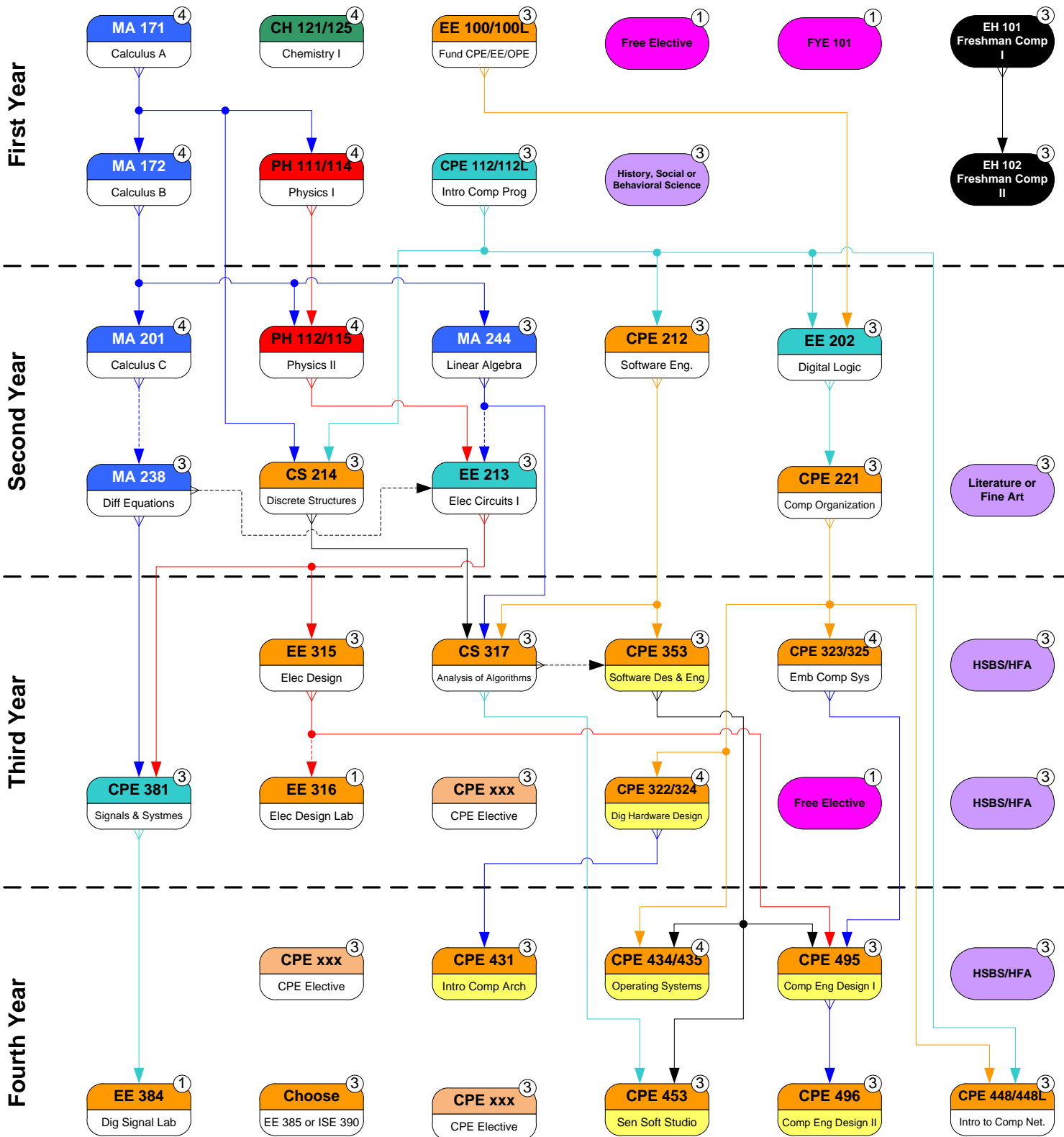


Student A#				Student Name (Last, First MI)			Offered: F=Fall S=Spring M=Summer
Semester, Transfer or AP	Grade	Course Number	Cr Hrs	Course Title	Prerequisites, Corequisites and/or Prerequisites with Concurrency		
<b>English - 6 hours</b>							
		EH 101	3	Freshman Composition I	Placement		FSM
		EH 102	3	Freshman Composition II	EH 101		FSM
<b>Mathematics - 18 hours</b>							
		MA 171	4	Calculus A	MA 113 or MA 115 or Level III Placement		FSM
		MA 172	4	Calculus B	MA 171		FSM
		MA 201	4	Calculus C	MA 172		FSM
		MA 238	3	Applied Differential Equations	Prereq w/Con: MA 201		FSM
		MA 244	3	Introduction to Linear Algebra	MA 172		FSM
<b>Chemistry - 4 hours</b>							
		CH 121	3	General Chemistry I	Plcmt or CH 101, MA 113 or 115, Prereq w/Con: MA 171, Coreq: CH 125		FSM
		CH 125	1	General Chemistry Lab I	Coreq: CH 121		FSM
<b>Physics - 8 hours</b>							
		PH 111	3	General Physics w/Calculus I	MA 171		FSM
		PH 114	1	General Physics Lab I	Prereq w/Con: PH 111		FSM
		PH 112	3	General Physics w/Calculus II	MA 172, PH 111		FSM
		PH 115	1	General Physics Lab II	Prereq w/Con: PH 112		FSM
<b>History, Social &amp; Behavioral Sciences, Humanities &amp; Fine Arts - 15 hours</b>							
			3	HSBS	Choose 3 hours: History, Social or Behavior Science		FSM
			3	HFA	Choose 3 hours: Literature or Fine Art		FSM
			3		Choose 3 hour courses of HSBS/HFA that you have met prerequisites, from ARH, ARS*, CM, EH, ECN*, FL, GS, GY, HY, MU, PHL, PSC, PY, SOC, WS		
			3				
			3				
<b>General Education Electives - 3 hours</b>							
					Choose up to 3 hours of electives (Ex. FYE 101): Any courses that you have met prerequisites, and are not remedial coursework for Engineering curriculum.		
**	Class has required lab section			<b>Engineering Core - 12 hours</b>			
**		CPE 112	3	Intro to Computer Programming in Engineering	MA 113, MA 115 or Level III Placement, Coreq: CPE 112L		FSM
		EE 202	3	Intro to Digital Logic Design	CPE 112, EE 100		FSM
		EE 213	3	Electrical Circuit Analysis I	PH 112, Prereq w/Con: MA 238 & (MA 244 or CHE 244)		FSM
		CPE 381	3	Fundamentals of Signals & Sys for Comp Engrs	EE 213, MA 238		FS
<b>Computer Science - 6 hours</b>							
		CS 214	3	Intro to Discrete Structures	CPE 112, MA 171		FSM
		CS 317	3	Design & Analysis of Algorithms	CS 214, CPE 212, MA 244		FSM
**	Class has required lab section			<b>Computer Engineering Option - 47 hours</b>			
**		EE 100	3	Fund of Computer, Electrical & Optical Eng	Prereq w/Con: MA 112, Coreq: EE 100L		FSM
		CPE 212	3	Fundamentals of Software Engineering	CPE 112		FS
		CPE 221	3	Computer Organization	EE 202		FSM
		CPE 322	3	Digital Hardware Design Fundamentals	CPE 221, Coreq: CPE 324		S
		CPE 324	1	Digital Hardware Design Lab	Coreq: CPE 322		S
		EE 315	3	Introduction to Electronic Analysis and Design	EE 213		FSM
		EE 316	1	Electronic Measurements & Devices Design Lab	Prereq w/Con: EE 315		FS
		CPE 323	3	Intro to Embedded Computer Systems	CPE 221, Coreq: CPE 325		FS
		CPE 325	1	Lab Component of Intro of CE 323	Coreq: CPE 323		FS
		CPE 353	3	Software Design & Engineering	CPE 212, Prereq w/Con: CS 317		F
		EE 384	1	Digital Signal Processing Laboratory	CPE 381 or Prereq w/Con: EE 383		FS
Select One		EE 385	3	Random Signals and Noise	CPE 381 or EE 382		FSM
		ISE 390	3	Probability & Engineering Statistics I	Prereq w/Con: MA 201		FSM
		CPE 431	3	Intro to Computer Architecture	CPE 322, CPE 324		F
		CPE 434	3	Operating Systems	CPE/EE 221, CPE 353, Coreq: CPE 435		F
		CPE 435	1	Operating Systems Lab	Coreq: CPE 434		F
		CPE 448	3	Introduction to Computer Networks	CPE 112, CPE 221		FS
		CPE 453	3	Senior Software Studio	CS 317, CPE 353		S
		CPE 495	3	Computer Engineering Design I	CPE 323, CPE 353, EE 315		F
		CPE 496	3	Computer Engineering Design II	CPE 495		S
<b>Computer Engineering Electives - 9 hours</b>							
			3				
			3		300 - level or above approved by advisor.		
			3				

All prerequisite classes must be completed with a "C" or higher grade.  
The Catalog is the final authority for all degree requirements.  
Updated: 7/11/2013

# Computer Engineering Program 2013/2014 (128 Hours)




<b>Legend</b>	Freshman Comp	Free Electives
	Mathematics	Engineering Core
	Chemistry	Computer Eng Option
	Physics	Offered that Semester Only
	History, Social, Behavior Science/Humanity & Fine Art	Electives
	Prerequisite	Prereq w/concurrency



Department	Prepared by	Date
Electrical & Computer	Jacob Kerstiens	8/8/13
Program	Approved by	Date
Computer Engineering		

# College of Engineering Pathways

## Computer Engineering 2013-2014 Plan

Curriculum Pathway	Research Pathway	Internship Pathway	Co-op Pathway				
<b>Milestone Year-1</b>							
<input type="checkbox"/> 33 hours completed including: MA 171, CH 121/125, EE 100, HSBS/HFA, FYE 101, EH 101, Free Elec MA 172, PH 111/114, CPE 112, HSBS/HFA, EH 102		<input type="checkbox"/> Meet with Faculty to discuss pathway choices <input type="checkbox"/> Meet with Career Development <input type="checkbox"/> Attend Career Services Workshop on Resume <input type="checkbox"/> Outline Resume <input type="checkbox"/> Participate in Career Fair					
<b>Milestone Year-2</b>							
<input type="checkbox"/> 65 hours completed including: MA 201, PH 112/115, MA 244, EE 202, CPE 212 MA 238, EE 213, CS 214 CPE 221, HSBS/HFA		<input type="checkbox"/> Meet with Faculty for Undergraduate research opportunities <input type="checkbox"/> Attend Career Services Workshop on Interviews <input type="checkbox"/> Professional Resume <input type="checkbox"/> Attend Career Fair <input type="checkbox"/> Co-op/Internship Offer (Summer Start)					
							
<b>Milestone Year-3</b>							
<b>Research Pathway</b> <input type="checkbox"/> 96 hours completed including: EE 315, CS 317, CPE 353, CPE 323, CPE 325, HSBS/HFA CPE 381, EE 316, CPE 322, CPE 324, CPE Elec, Free Elec, HSBS/HFA <input type="checkbox"/> Undergraduate Research <input type="checkbox"/> Attend JUMP Information Session		<b>Internship Pathway</b> <input type="checkbox"/> 96 hours completed from Curriculum Pathway <input type="checkbox"/> Summer Internship	<b>Co-op Pathway</b> <input type="checkbox"/> Obtain Faculty Mentor <input type="checkbox"/> 90 hours completed including: Work Semester (Summer) CPE 381, CS 317, CPE 353, CPE 323, CPE 325 (Fall) Work Semester (Spring) EE 315, EE 385/ISE 390, HSBS/HFA, HSBS/HFA (Summer) <input type="checkbox"/> 2 Semesters of Co-op				
<b>Milestone Year-4</b>							
<b>Research Pathway</b> <input type="checkbox"/> 128 hours completed including: CPE 495, CPE 434, CPE 435, CPE 431, CPE Elec, HSBS/HFA CPE 496, CPE 453, CPE 488, EE 384, CPE Elec, EE 385/ISE 390 <input type="checkbox"/> Undergraduate Research Complete <input type="checkbox"/> Senior Design Complete <input type="checkbox"/> Degree Complete <input type="checkbox"/> Begin Career or Graduate School		<b>Internship Pathway</b> <input type="checkbox"/> 128 hours completed from Curriculum Pathway <input type="checkbox"/> Summer Internship <input type="checkbox"/> Senior Design Complete <input type="checkbox"/> Degree Complete <input type="checkbox"/> Begin Career or Graduate School	<b>Co-op Pathway</b> <input type="checkbox"/> 103 hours completed including: Work Semester (Fall) CPE 322, CPE 324, CPE Elec, CPE 448, CPE 453 (Spring) Work Semester (Summer) <input type="checkbox"/> Experiential Learning complete <input type="checkbox"/> Decision on Industry or Graduate School				
<b>Milestone Year-5</b>							
			<b>Co-op Pathway</b> <input type="checkbox"/> 128 hours completed including: CPE 434, CPE 435, CPE 431, CPE Elec, CPE 495 CPE 496, CPE Elec, CPE 384, EE 316, HSBS/HFA, Free Elec <input type="checkbox"/> Senior Design Complete <input type="checkbox"/> Degree Complete <input type="checkbox"/> Begin Career or Graduate School				
<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">Required</td> <td style="background-color: yellow;"></td> </tr> <tr> <td style="text-align: center;">Recommended</td> <td style="background-color: #d9ead3;"></td> </tr> </table>		Required		Recommended			
Required							
Recommended							