| Student A# | | | | | | Student Name (Last, First MI) | Offered:
F=Fall
S=Spring
M=Summer |

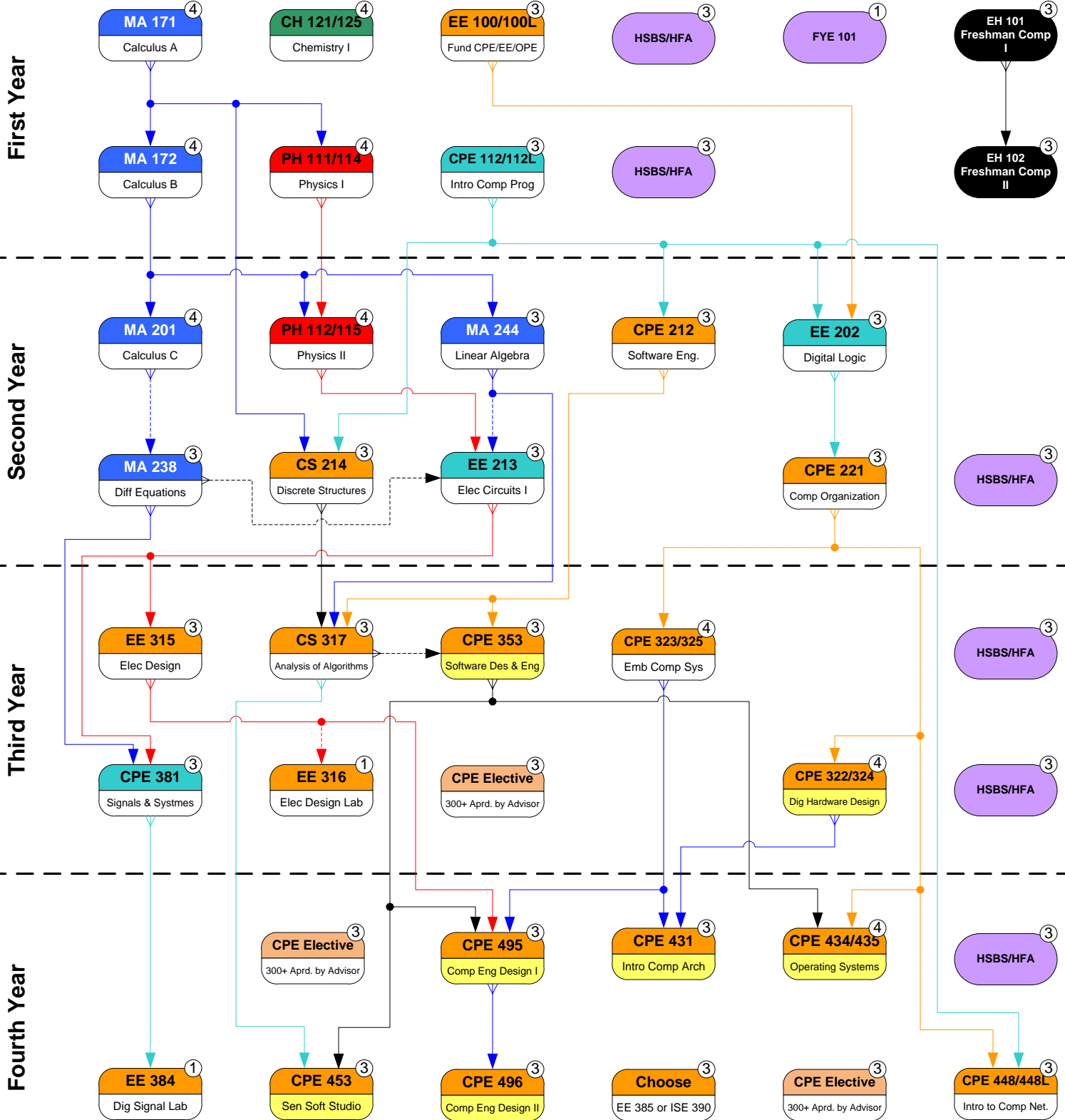| Semester, Transfer or AP	Grade	Course Number	Cr Hrs	Course Title	Prerequisites, Corequisites and/or Prerequisites with Concurrency	Offered: F=Fall S=Spring M=Summer
English - 6 hours						
		EH 101	3	Freshman Composition I	Placement	FSM
		EH 102	3	Freshman Composition II	EH 101	FSM
Mathematics - 18 hours						
		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
Chemistry - 4 hours						
		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
Physics - 8 hours						
		PH 111	3	General Physics w/Calculus I	MA 171, Coreq: 114	FSM
		PH 114	1	General Physics Lab I	Coreq: PH 111	FSM
		PH 112	3	General Physics w/Calculus II	MA 172, PH 111, Coreq: 115	FSM
		PH 115	1	General Physics Lab II	Coreq: PH 112	FSM
History, Social & Behavioral Sciences, Humanities & Fine Arts - 18 hours						
			3	History	HY 103, HY 104, HY 221, or HY 222	FSM
			3	Literature	EH 207 or EH 208	FSM
			3	Fine Art	ARH 100, ARH 101, ARH 103, CM 122, MU 100, or ARS 160	FSM
			3	Social & Behavioral Science	For more information on HSBS/HFA Requirements: http://www.uah.edu/images/colleges/engineering/ CUE2%20Files/Forms/HSBS_HFA_Requirements.pdf	FSM
			3	Sequence Course		FSM
			3	HSBS/HFA		FSM
** Class has required lab section **Engineering Core - 12 hours**						
**		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
Computer Science - 6 hours						
		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 **Computer Engineering Option - 47 hours**						
**		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 323	F
		CPE 434	3	Operating Systems	CPE 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, Coreq: CPE 448L	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
Computer Engineering Electives - 9 hours						
			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.

Computer Engineering Program 2014/2015 (128 Hours)

Academic Flowchart

Computer Engineering
2014/2015 (128 Hours)

UAH — COLLEGE OF ENGINEERING — THE UNIVERSITY OF ALABAMA IN HUNTSVILLE

First Year

MA 171 (4) Calculus A	**CH 121/125** (4) Chemistry I	**EE 100/100L** (3) Fund CPE/EE/OPE	**HSBS/HFA** (3)	**FYE 101** (1)	**EH 101 Freshman Comp I** (3)
MA 172 (4) Calculus B	**PH 111/114** (4) Physics I	**CPE 112/112L** (3) Intro Comp Prog	**HSBS/HFA** (3)		**EH 102 Freshman Comp II** (3)

Second Year

MA 201 (4) Calculus C	**PH 112/115** (4) Physics II	**MA 244** (3) Linear Algebra	**CPE 212** (3) Software Eng.	**EE 202** (3) Digital Logic
MA 238 (3) Diff Equations	**CS 214** (3) Discrete Structures	**EE 213** (3) Elec Circuits I	**CPE 221** (3) Comp Organization	**HSBS/HFA** (3)

Third Year

EE 315 (3) Elec Design	**CS 317** (3) Analysis of Algorithms	**CPE 353** (3) Software Des & Eng	**CPE 323/325** (4) Emb Comp Sys	**HSBS/HFA** (3)
CPE 381 (3) Signals & Systmes	**EE 316** (1) Elec Design Lab	**CPE Elective** (3) 300+ Aprd. by Advisor	**CPE 322/324** (4) Dig Hardware Design	**HSBS/HFA** (3)

Fourth Year

	CPE Elective (3) 300+ Aprd. by Advisor	**CPE 495** (3) Comp Eng Design I	**CPE 431** (3) Intro Comp Arch	**CPE 434/435** (4) Operating Systems	**HSBS/HFA** (3)
EE 384 (1) Dig Signal Lab	**CPE 453** (3) Sen Soft Studio	**CPE 496** (3) Comp Eng Design II	**Choose** (3) EE 385 or ISE 390	**CPE Elective** (3) 300+ Aprd. by Advisor	**CPE 448/448L** (3) Intro to Comp Net.

Legend

Updated: 8/28/14

- **Mathematics** (blue)
- **Physics** (red)
- **Chemistry / Biology** (green)
- **Engineering Core** (teal)
- **Computer Engineering Option** (orange)
- **Electives** (tan)
- **Freshman Comp** (black)
- **History, Social & Behavioral Science Humanity & Fine Art** (purple)
- **Offered only in semester listed** (yellow)
- (3) **Credit Hours**
- → **Prerequisite**
- ⇢ **Prereq w/concurrency**

Academic Pathways

COLLEGE OF ENGINEERING
THE UNIVERSITY OF ALABAMA IN HUNTSVILLE

Computer Engineering
2014-2015 Plan

Curriculum Pathway	Research Pathway	Internship Pathway	Co-op Pathway	Required
				Recommended

Miletone Year-1

[ ] 33 hours completed including: MA 171, CH 121/125, EE 100, HSBS/HFA, FYE 101, EH 101 MA 172, PH 111/114, CPE 112, HSBS/HFA, EH 102	[ ] Meet with Faculty to discuss pathway choices [ ] Meet with Career Development [ ] Attend Career Services Workshop on Resume [ ] Outline Resume [ ] Participate in Career Fair

Milestone Year-2

[ ] 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	[ ] Meet with Faculty for Undergraduate research opportunities [ ] Attend Career Services Workshop on Interviews [ ] Professional Resume [ ] Attend Career Fair [ ] Co-op/Internship Offer (Summer Start)

SELECT ONE PATHWAY OPTION

Research Pathway   Intership Pathway   Co-op Pathway

Milestone Year-3

Research Pathway	Internship Pathway	Co-op Pathway
[ ] 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 [ ] Undergraduate Research [ ] Attend JUMP Information Session	[ ] 96 hours completed from Curriculum Pathway [ ] Summer Internship	[ ] Obtain Faculty Mentor [ ] 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) [ ] 2 Semesters of Co-op

Milestone Year-4

Research Pathway	Internship Pathway	Co-op Pathway
[ ] 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 [ ] Undergraduate Research Complete [ ] Senior Design Complete [ ] Degree Complete [ ] Begin Career or Graduate School	[ ] 128 hours completed from Curriculum Pathway [ ] Summer Internship [ ] Senior Design Complete [ ] Degree Complete [ ] Begin Career or Graduate School	[ ] 103 hours completed including: Work Semester (Fall) CPE 322, CPE 324, CPE Elec, CPE 448, CPE 453 (Spring) Work Semester (Summer) [ ] Experiential Learning complete [ ] Decision on Industry or Graduate School

Milestone Year-5

		Co-op Pathway
		[ ] 128 hours completed including: CPE 434, CPE 435, CPE 431, CPE Elec, CPE 495 CPE 496, CPE Elec, CPE 384, EE 316, HSBS/HFA [ ] Senior Design Complete [ ] Degree Complete [ ] Begin Career or Graduate School

6/4/2014