

Name (Last, First MI)

Student A#

Student Signature (For graduation)

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:
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	CH 101 or Plcmt, MA 112, Prereq w/Con: MA 113 or 115, Coreq: CH 125	FSM
		CH 125	1	General Chemistry Lab I	Coreq: CH 121	FSM
Physics - 12 hours						
		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
		PH 113	3	General Physics w/Calculus III	MA 201, PH 112	FSM
		PH 116	1	General Physics Lab III	Prereq w/Con: PH 113	FSM
History, Social & Behavioral Sciences - 9 hours						
		HY	3	History	See History, Social & Behavioral Science (HSBS) List; available in Engineering Advising Office, EB 157.	FSM
			3		Must have six hour sequence in either HSBS or HFA.	FSM
			3			FSM
Humanities & Fine Arts - 9 hours						
		EH	3	Literature	See Humanities & Fine Art (HFA) List; available in Engineering Advising Office, EB 157.	FSM
			3	Fine Arts		FSM
			3		Must have six hour sequence in either HSBS or 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 213	3	Electrical Circuit Analysis I	PH 112, Prereq w/Con: MA 238 & (MA 244 or CHE 244 or MAE 285)	FSM
		EE 310	3	Solid State Fundamentals	PH 112, Prereq w/Con: MA 238	FS
		ISE 321	3	Engineering Economy	Sophomore Standing	FSM
Optical Engineering Option - 30 hours						
		EE 307	3	Electricity and Magnetism	EE 213	FSM
		EE 313	3	Electrical Circuit Analysis II	EE 213	FSM
		EE 447	3	Electromagnetic Engineering	EE 307	FS
		OPE 451	3	Optoelectronics	Prereq w/Con: EE 307, EE 315	F
		OPE 453	3	Laser Systems	EE 307	F
		OPE 456	3	Photonics Lab	OPE 451	S
		OPE 459	3	Optical Engineering Design I	ISE 321, Prereq w/Con: OPE 456	F
		OPE 460	3	Optical Engineering Design II	OPE 459	S
		OPT 341	3	Geometrical Optics	PH 113, Prereq w/Con: (PH 305 or MA 244)	F
		OPT 342	3	Physical Optics	OPT 341	S
Electrical Engineering Requirements - 25 hours						
**		EE 100	3	Fund of Computer, Electrical & Optical Eng	Coreq: EE 100L	FSM
		EE 202	3	Intro to Digital Logic Design	CPE 112, EE 100	FSM
		EE 203	1	Digital Logic Design Lab	EE 202	FSM
		EE 214	1	Electronic Measurement Lab	EE 213	FSM
		EE 305	1	Electronic Devices & Design Lab	EE, 213, EE 214, Prereq w/Con: EE 315	FSM
		EE 315	3	Introduction to Electronic Analysis and Design	EE 213	FSM
		EE 382	3	Analytical Meth for Continuous Time Sys	EE 213, MA 238	FSM
		EE 383	3	Analytical Meth for Mult and Discr Time Sys	EE 382	FSM
		EE 384	1	Digital Signal Processing Laboratory	CPE 381 or Prereq w/Con:EE 383	FSM
		EE 420	3	Random Signals and Noise	CPE 381 or EE 382	FSM
		OPE 454	3	Optical Fiber Communications	EE 307 or PH 432	F
Optical Engineering Elective - 3 hours						
			3		300 - level or above approved by OPE advisor.	

**All prerequisite classes must be completed with a "C" or higher grade.
The Catalog is the final authority for all degree requirements.**

ENGINEERING APPROVALS:

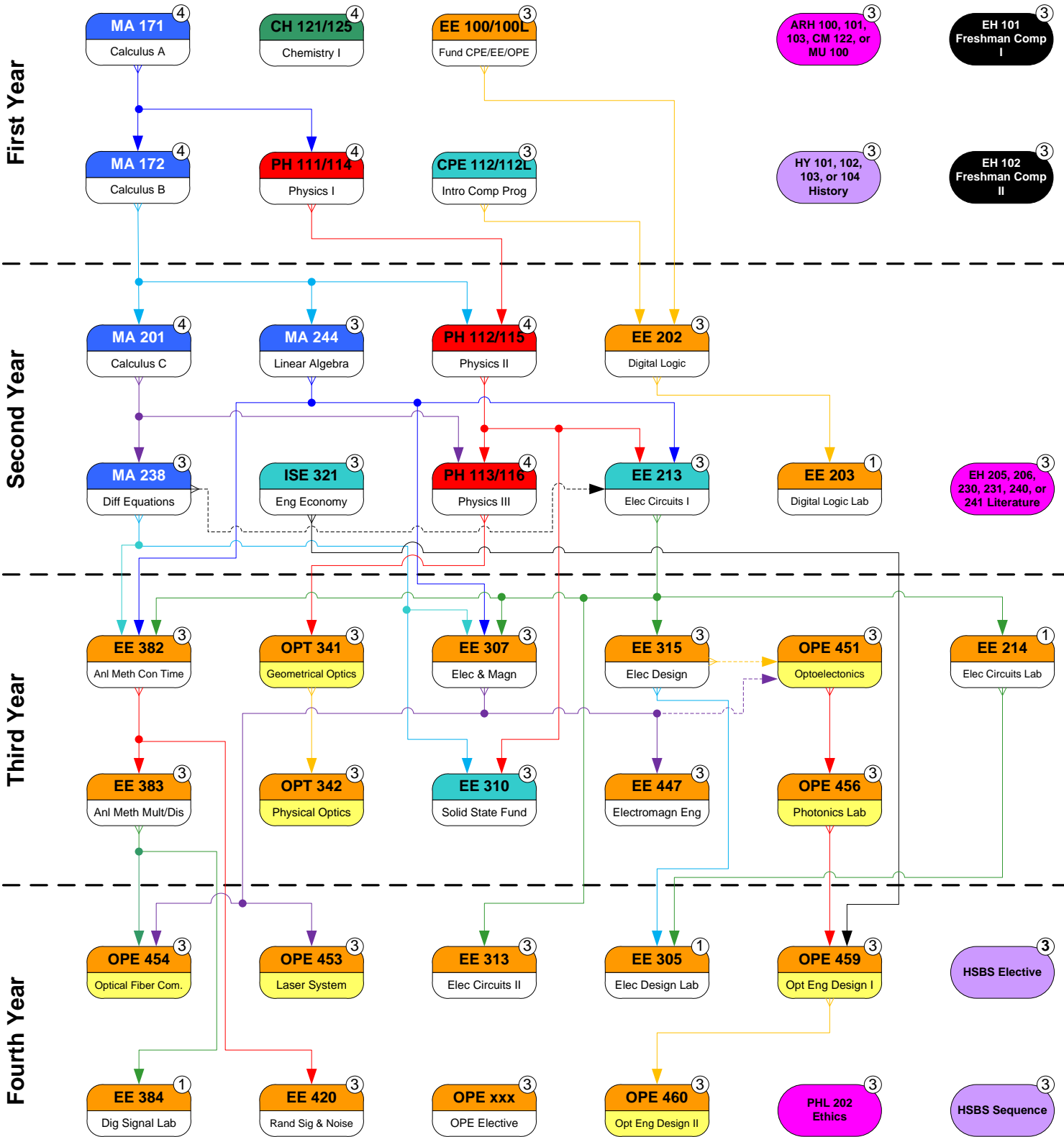
Advisor	Date	Department Chair	Date	Dean of Engineering/Designee	Date
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Updated: October 24, 2011

Optical Engineering Program 2011/2012 (128 Hours)

UAHuntsville

Optical Engineering Program 2010/2011 (128 Hours)



Legend

- Freshman Comp
- Mathematics
- Chemistry
- Physics
- History, Social & Behavioral Sciences
- Hum. & Fine Arts
- Engineering Core
- Optical Engineering Option
- Offered that semester only
- 3 Credit Hours
- Prerequisite
- Prereq w/concurrency



Department	ECE	Prepared by	Barbie Boles	Date	8/31/11
Program	Optical Engineering Program	Approved by		Date	