

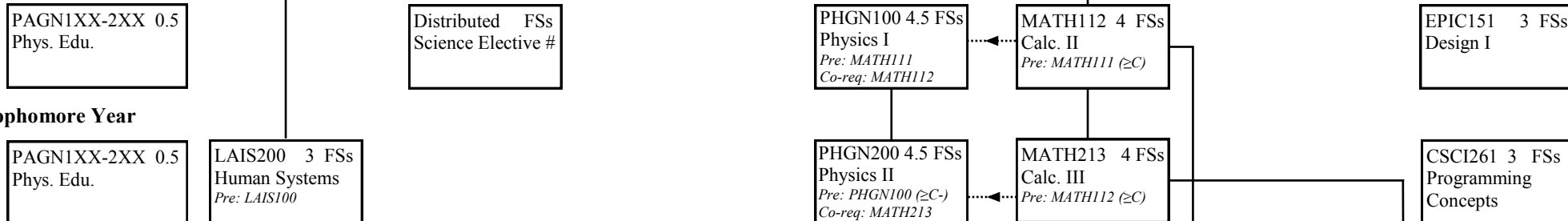
ELECTRICAL ENGINEERING

2017-18 Curriculum Flowchart

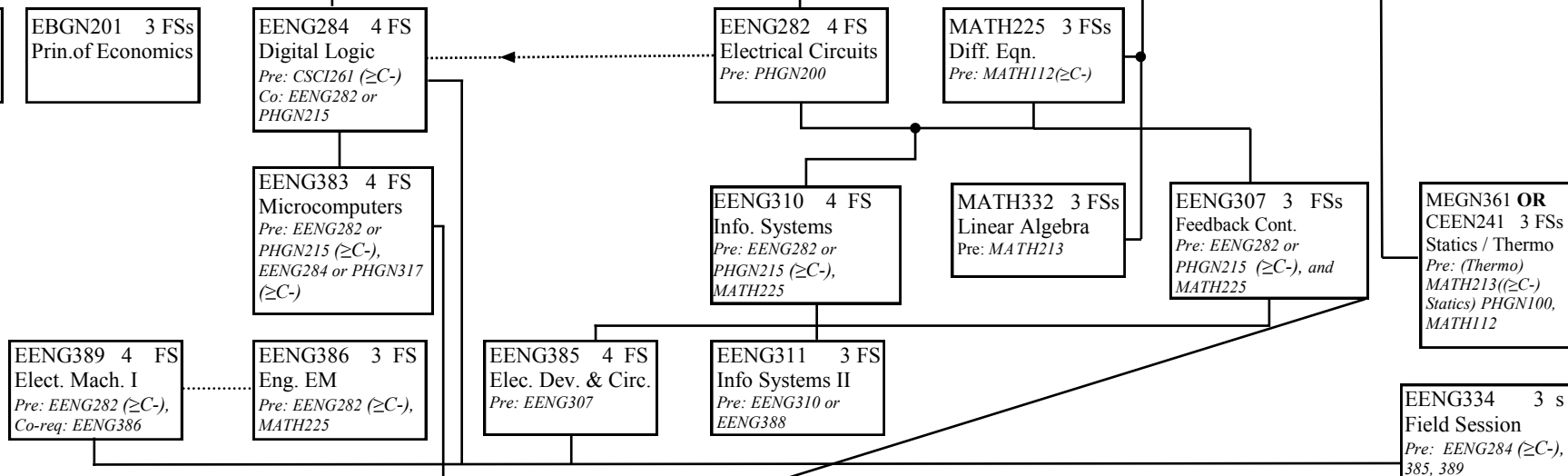
Freshman Year



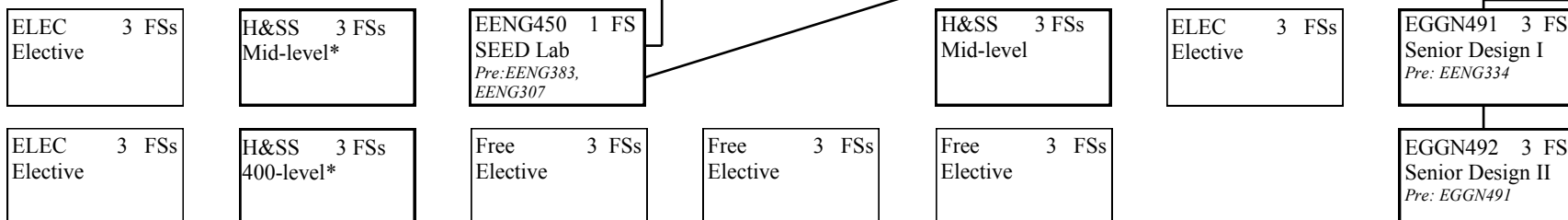
Sophomore Year



Junior Year



Senior Year



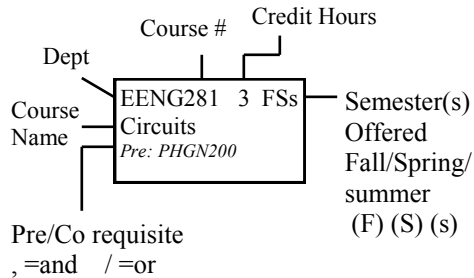
* See 2017-2018 Undergraduate Catalog for list of acceptable courses

CBEN110, CHGN122 or CHGN125, CSCI101 or GEGN101 may be taken for Distributed Science

Electrical Engineering Emphasis Areas & EE Electives

Electrical Engineering students are required to take nine credits of electrical engineering electives. Taking all nine credit hours in one of the four emphasis areas is encouraged; however, not required.

Legend



Information System Science and Controls

Energy Systems and Power Electronics

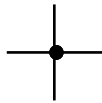
Course	Course Title	Credit Hours	Semester(s) Offered	Course	Course Title	Credit Hours	Semester(s) Offered
EENG411	Digital Signal Processing	3	Sp	EENG470	Intro to High Power Electronics	3	F
EENG413	Analog & Digital Comm Systems	4	Check Trailhead	EENG472	Practical Design of Small Renewable Energy Systems	3	Check Trailhead
EENG417	Modern Control Design	3	F	EENG480	Power Systems Analysis	3	F
EENG427	Wireless Communications	3	F	EENG481	Analysis and Design of Advanced Energy Systems	3	Sp
EENG437	Intro to Computer Vision	3		EENG489	Computational Methods in Energy Systems & Power	3	Sp
MEGN441	Intro to Robotics	3	F, Sp				

Antenna and Wireless Communication

Digital Integrated Circuits and Electronics

Course	Course Title	Credit Hours	Semester(s) Offered	Course	Course Title	Credit Hours	Semester(s) Offered
EENG425	Introduction to Antennas	3	Check Trailhead	EENG411	Digital Signal Processing	3	Sp
EENG427	Wireless Comm Systems	3	F	EENG421	Semiconductor Physics & Design	3	F
EENG429	Active RF & Microwave Devices	3		EENG423	Introduction to VLSI Design	3	Sp
EENG430	Passive RF & Microwave Devices	3	F	PHGN435	Interdisciplinary Microelectronics Processing Laboratory	3	Sp

Shows lines crossing and connecting together



Concurrent Enrollment Allowed
(Arrow points toward course with pre/co requisite requirement)



Electrical Engineering- General (

Course	Course Title	Credit Hours	Semester(s) Offered				
CEEN405	Numerical Methods for Engineers	3	Check Trailhead	MEGN330	Introduction to Biomechanical Engineering	3	F
CSCI341	Computer Organization	3	F, Sp	PHGN300	Modern Physics I	3	F
CSCI410	Elements of Comp Systems	3	Sp	PHGN320	Modern Physics II: Quantum	4	Sp
CSCI440	Parallel Computing for Scientists & Engineers	3	F	PHGN440	Solid State Physics	3	F
CSCI442	Operating Systems	3	F, Sp	PHGN441	Solid State Physics Applications & Phenomena	3	Check Trailhead
MATH335	Intro to Mathematical Statistics	3	Sp	PHGN462	Electromagnetic Waves & Optical Physics	3	F
MATH455	Partial Differential Equations	3	F, Sp				