

RECOMMENDED ACADEMIC PLAN – ELECTRICAL ENGINEERING

Semester I		Semester II	
*CHEM 110 Chemical Principles GN	3	CAS 100 Effective Speech GWS	3
*CHEM 111 Experimental Chemistry GN	1	EDSGN 100 Introduction to Engineering Design	3
ENGL 015 Rhetoric and Composition or 030 Honors Freshman Composition GWS	3	*MATH 141 Calculus with Analytic Geometry II GQ	4
*MATH 140 Calculus With Analytic Geometry I GQ	4	*PHYS 211 General Physics: Mechanics GN	4
Humanities GH	3	Arts GA	3
Health and Physical Activity GHA	1.5		
First-Year Seminar	1		
	16.5		17
Semester III		Semester IV	
CMPEN 271 Introduction to Digital Systems	3	CMPSC 121 Introduction to Programming Techniques (recommended) GQ or	3
CMPEN 275 Digital Design Laboratory	1	CMPSC 201 Computer Programming for Engineers Using C GQ or	
E MCH 211 Statics	3	CMPSC 202 Programming for Engineers with FORTRAN GQ	
MATH 220 Matrices	2	ECON 002 Introductory Microeconomic Analysis and Policy or ECON 004 Introductory	3
MATH 230 Calculus and Vector Analysis	4	Macroeconomic Analysis and Policy GS-III or 014 Principles of Economics GS	
PHYS 212 General Physics: Electricity and Magnetism GN	4	ENGL 202C Effective Writing: Technical Writing GWS	3
		MATH 250 Ordinary Differential Equations	3
		PHYS 213 General Physics: Fluids and Thermal Physics GN	2
		PHYS 214 General Physics: Wave Motion and Quantum Physics GN	2
		SSET 295 Internship	1
	17		17
Semester V		Semester VI	
E E 315 Electrical Signals and Circuits with Lab	5	E E 310 Electronic Circuit Design I	4
Or (if E E 210 Circuits and Devices or equivalent was taken) then		E E 330 Engineering Electromagnetics	4
E E 314 Signals and Circuits II (9 weeks)	3	E E 352 Signals and Systems: Continuous and Discrete-Time	4
E E 341 Semiconductor Device Principles	3	E E 485 Energy Systems and Conversion	3
CMPEH 472 Microprocessors	4	Social and Behavioral Science GS	3
MATH 444 Mathematical Statistics and Applications I or MATH 446 Introduction to	3-4		
Statistics I or STAT 200 Elementary Statistics GQ			
SSET 295 Internship (if not previously done)	(1)		
	13 - 16		18
Semester VII		Semester VIII	
E E 311 Electronic Circuit Design II	3	CMPSC 436 Communications and Networking	3
E E 405 Capstone Proposal Preparation	1	E E 406W Electrical Engineering Capstone Design	3
E E 461 Electronic Communications I	3	Technical Elective-II	3
E E 481 Control Systems	4	Technical Elective-III	3
Technical Elective-I	3	Humanities GH	3
Arts GA	3	Health and Physical Activity GHA	1.5
	17		16.5

Advising Notes

- **Bold type** require a grade of C or better.
- *Italics* indicates courses that satisfy both major and General Education requirements.
- **Bold Italics** indicates courses requiring a quality grade of C or better and that satisfy both major and General Education requirements.
- GWS, GHA, GQ, GN, GA, GH, and GS are codes used to identify General Education requirements.
- US, IL, and US:IL are codes used to designate courses that satisfy University United States/International Cultures requirements.
- W is the code used to designate courses that satisfy University Writing Across the Curriculum requirements.

*Entry to major requirement.

NOTE: Following courses are offered only in semesters as listed below.

Fall: CMPEH 271, CMPEH 275, MATH 230, EE 314, EE 315, EE 341, CMPEH 472, EE 311, EE 461, EE 481
Spring: PHYS 213, PHYS 214, MATH 250, EE 310, EE 330, EE 352, EE 485

Students must complete a 3-credit course in "United States Cultures (US)" and a 3-credit course in "International Cultures (IL)."

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