

Course Checklist for Graduation
Bachelor of Science in Electrical Engineering
with Emphasis in Computer Engineering
Fall 2013

MATH

MATH	261	Calculus I	_____	3
MATH	262	Calculus II	_____	3
MATH	263	Calculus III	_____	3
MATH	264	Calculus IV	_____	3
MATH	353	Differential Equations	_____	3
MATH	301	Discrete Math	_____	3
Total:				18

ENGINEERING

ENGR	309	Statics	_____	3
ENGR	310	Eng. Analys. I	_____	3
ENGR	321	Thermodynamics	_____	3
ENGR	360	Electric Circuit Theory	_____	3
ENGR	361	Electric Circuits Lab	_____	1
ENGR	410	Eng. Analysis II	_____	4
Total:				17

COMPUTER SCIENCE

CSCI	111	Computer Science I	_____	3
CSCI	112	Computer Science II	_____	3
CSCI	211	Computer Science III	_____	3
CSCI	223	Computer Organization	_____	3
CSCI	423	Intro. to Op. Systems	_____	3
Total:				15

WRITING

WRIT	101	First-Year Writing I	_____	3
WRIT	102	First-Year Writing II	_____	3
Total:				6

BASIC SCIENCE

CHEM	105	General Chemistry	_____	3
CHEM	115	Gen Chemistry Lab	_____	1
PHYS	211	Phys. for Sci. & Eng.	_____	3
PHYS	212	Phys. for Sci. & Eng.	_____	3
PHYS	221	Phys. for Sci. & Eng. Lab	_____	1
PHYS	222	Phys. for Sci. & Eng. Lab	_____	1
Total:				12

* ENGR 330 can be used as a substitute course,
 ONLY if EL E 331 is not being taught.

S-H-F ELECTIVES

S-H-F Electives	_____	_____	6
S-H-F Electives	_____	_____	6
S-H-F Elective	_____	_____	3
ECON 310	Eng. Economics	_____	3
Total:			18

ELECTRICAL ENGINEERING

EL E	100	Introduction to EE	_____	1
EL E	235	Digital Systems	_____	3
EL E	236	Digital Systems Lab	_____	1
EL E	331	Linear Systems *	_____	3
EL E	341	Theory of Fields	_____	3
EL E	351	Models & Circuits I	_____	3
EL E	352	Models & Circuits II	_____	3
EL E	353	Electronics Lab	_____	1
EL E	367	CAD in EE	_____	3
EL E	385	Advanced Digital Sys.	_____	3
EL E	386	Adv. Digital Sys. Lab	_____	1
EL E	391	Random Signals	_____	3
EL E	425	Local Area Networks	_____	3
EL E	431	Theory of Control Sys.	_____	3
EL E	461	Senior Design I	_____	1
EL E	462	Senior Design II	_____	2
EL E	485	Micropr. Sys. Eng.	_____	2
EL E	486	Micropr. Sys. Eng. Lab	_____	1
Total:			40	

TECHNICAL ELECTIVES (2 HRS)

ENGR	597	Special Topics	_____	1-3
EL E	313	Biomedical Physiology	_____	3
EL E	314	Biomedical Measurement	_____	1
EL E	413	Biomedical Signal proc	_____	3
EL E	414	Biomedical Electronics	_____	1
EL E	441	Electromag. Theory I	_____	1
EL E	443	Network Analysis	_____	3
EL E	447	Mod., Noise, & Comm.	_____	3
EL E	451	Energy Conversion	_____	3
EL E	533	Electronic Prop. Mat.	_____	3
EL E	482	Digital CMOS VLSI	_____	3
EL E	534	Wireless Mob Comm	_____	3
EL E	535	Digital Communications	_____	3
EL E	586	Dig. Sig. process	_____	3
CSCI	361	Computer Networks	_____	3
CSCI	523	Operating Systems	_____	3
CSCI	530	Comp. Arch. Design	_____	3
CSCI	551	Comp. Sys. Performance	_____	3
CSCI	561	Computer Networks	_____	3
Total:			2	

Total Semester Hours: 128