

**Course Checklist for Graduation**  
**Bachelor of Science in Electrical Engineering**  
**with Emphasis in Telecommunications**  
**Spring 2003**

**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
<b>Total:</b>				<b>15</b>

**ENGINEERING**

ENGR	309	Eng. Mechanics	_____	3
ENGR	310	Eng. Analysis I	_____	4
ENGR	321	Thermodynamics	_____	3
ENGR	360	Electric Circuit Theory	_____	4
ENGR	361	Electric Circuits Lab	_____	1
ENGR	410	Eng. Analysis II	_____	4
<b>Total:</b>				<b>19</b>

**S-H-F ELECTIVES**

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

**ELECTRICAL ENGINEERING**

EL E	100	Introduction to EE	_____	1
EL E	331	Linear Systems	_____	3 *
EL E	335	Digital Systems	_____	3
EL E	336	Digital Systems Lab	_____	1
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 I	_____	2
EL E	368	CAD in EE II	_____	1
EL E	385	Advanced Digital Sys.	_____	3
EL E	386	Adv. Digital Sys. Lab	_____	1
EL E	431	Theory of Control Sys.	_____	3
EL E	441	Electromag. Theory I	_____	3
EL E	461	Senior Design I	_____	1
EL E	462	Senior Design II	_____	2
EL E	533	Electronic Prop. Mat.	_____	3
<b>Total:</b>				<b>37</b>

**UNIVERSITY STUDIES**

US	101	University Studies	_____	1
<b>Total:</b>				<b>1</b>

**COMPUTER SCIENCE**

CSCI	251	Prog. for Eng. & Sci.	_____	3
CSCI	259	Programming in C	_____	3
CSCI	361	Int. to Comp. Networks	_____	3
<b>Total:</b>				<b>9</b>

**ENGLISH**

ENGL	101	English Comp	_____	3
LIBA	102	First Year Seminar	_____	3
<b>Total:</b>				<b>6</b>

**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
<b>Total:</b>				<b>12</b>

**TELECOMMUNICATIONS MAJOR**

EL E	447	Mod., Noise, & Comm.	_____	3
TC	415	Telecom Lab	_____	1
TC	432	Local Area Networks	_____	3
TC	535	Digital Communications	_____	3
<b>Total:</b>				<b>10</b>

**TECHNICAL ELECTIVES (7 HRS)**

EL E	433	HF & Microwave Lab	_____	1
EL E	442	Electromag. Theory II	_____	3
EL E	443	Network Analysis	_____	3
EL E	451	Energy Conversion	_____	3
EL E	453	Solid State Devices	_____	3
EL E	485	Micropr. Sys. Eng.	_____	2
EL E	486	Micropr. Sys. Eng. Lab	_____	1
EL E	487	DSP Lab	_____	1
EL E	523	Microwave Eng.	_____	3
EL E	525	Intro. to Antennas	_____	3
TC	409	Current Issues Telecom	_____	3
TC	534	Wireless Mobile Comm.	_____	3
TC	433	Optical Fiber Comm.	_____	3
TC	491	Sp. Top. In Telecom	_____	3
CSCI	561	Computer Networks	_____	3
ENGR	597	Special Topics	_____	1-3
<b>Total:</b>				<b>7</b>

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

**Total Semester Hours: 134**