

# Bachelor of Science in Electrical Engineering

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# Bachelor of Science in Computer Engineering

## Guide to Selection of Technical Electives

COURSES	TITLE	PRE-REQUISITES*	CONCURRENT REQ'S
<b>3-credit Technical Electives</b>			
EEE3223	Advanced Digital Electronics	EEE2214	
EEE3513	Intro to Electrical Systems	EEE3124	
EEE4133	Electrical Machines	EEE3513	
EEE4243	Embedded Systems	EEE3233	
EEE4253	Computer Architecture	EEE3233	
EEE4263	Computer Networking	EEE3314 EEE3223 OR EEE3233	
EEE4273	Real Time Systems	EEE 3233	
EEE4313	Power Electronics	EEE3314 EEE4514 or EEE3124 (B+ or better)	
EEE4323	Advanced Electronics	EEE3314	
EEE4713	Optoelectronics	EEE3414	
<b>1-credit Laboratory Electives</b>			
EEE3121	Signals and Systems Lab		EEE3124
EEE3221*	Advanced Digital Elec Lab		EEE3223
EEE3511**	Intro Elect Sys Lab		EEE3513
EEE4131**	Electrical Machines Lab		EEE4133
EEE4241	Embedded Systems Lab		EEE4243
EEE4261	Comp Networking Lab	EEE3223	<i>EEE4263 recommend as Tech elective</i>
EEE4321	Advanced Electronics Lab		EEE4323

### Special Notes:

- Students must meet the pre-requisites and concurrent requisites for all selected electives courses including laboratories.
- Required courses defined in a student declared concentration cannot be used again as selected electives courses.
- This list includes courses offered on a regular basis.
- Students with an earned GPA > 3.00 may select technical electives (topics) from the EEE5xxx level courses. Students earning a B or better in an EEE5000 level course may double dip for future graduate credit towards the MSECE program at LTU. A maximum of 6 graduate credits can be used as doubledip.

\*: Recommended Jr level laboratory for concentrations: Computer Engineering and Electronics

\*\*: Recommended Jr & Sr level laboratory for concentration: Power Engineering