

ECE Graduate Emphasis Area Form (Non-thesis option only)

Name (last) _____ (given) _____

Student ID _____

Catalog year (first semester at S&T) 20 _____ Spring / Summer / Fall

Electrical Engineering (EE) Program

	Primary Area	Secondary Area	Comments
Circuits/electronics			
Communications/ signal processing			
Controls/systems			
Electromagnetics			
Devices and optics			
Power/energy			

Computer Engineering (CpE) Program

	Primary Area	Secondary Area	Comments
Computational intelligence			
Architecture/embedded systems			
Integrated circuits/logic design			
Networking/security/dependability			

- The primary/secondary emphasis area of each student is initially determined by the Associate Chair of ECE Graduate Studies (Graduate Coordinator), mainly based on the student's transcript and supplementary information used for admission to Missouri S&T. Change of emphasis area requires approval from the Associate Chair ECE Graduate Studies.
- A minimum of 12 credit-hours are required from the primary area; up to 9 credit-hours can be taken from the secondary area, and up to 9 credit-hours can be from outside program (EE or CpE) or outside the ECE department. Possible combinations include: 12/9/9, 15/12/3, and 30/0/0 (all courses in primary area).
- Courses in the Electrical Engineering (EE) Program include:
 - Circuits/electronics: normally 51xx and 61xx
 - Communications/signal processing : normally 54xx and 64xx
 - Controls/systems: normally 53xx and 63xx
 - Electromagnetics: normally 51xx and 61xx, 56xx, and 66xx
 - Optics/devices: normally 52xx and 62xx
 - Power/energy: normally 55xx and 65xx
- Courses in the Computer Engineering (CpE) Program
 - Computational intelligence: normally 53xx and 63xx
 - Computer architecture/embedded systems: normally 51xx and 61xx
 - Integrated circuits/logic design: normally 52xx and 62xx
 - Networking/security/dependability: normally 54xx and 64xx
- If a student wishes to pursue a course in an area outside his/her background, the student will be required to take pre-requisite/remedial course(s) prior to select the course in that area.
- Courses taken prior to changing the area will be counted towards the courses from other areas or outside program (EE or CpE), or outside the ECE department, respectively.
- When a sufficient number of courses are not offered in a given emphasis area, courses from other areas within the program (EE or CpE) will be permitted.
- For more details, see the ECE Graduate Handbook.

Advisor's signature/date _____

Student's signature/date _____