

# 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			

- Emphasis area (primary/secondary) of each student is initially determined by the Associate Chair of ECE Graduate Studies (Graduate Coordinator) mainly based on his/her transcript and supplementary information used for admission to Missouri S&T. Change of emphasis area needs approval from the Associate Chair ECE Graduate Studies.
- Three categories of courses and requirements include: minimum 12 credit-hour from the primary area, up to 9 credit-hour from the secondary area and up to 9 credit-hour from outside program (EE or CpE)/outside ECE department (possible combination: 12/9/9, 15/12/3, 30/0/0, etc.)
- Courses in Electrical Engineering (EE) Program
  - 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 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)/outside ECE department.
- When the emphasis area does not offer sufficient numbers of courses, the courses from other areas within programs (EE or CpE) will be permitted.
- For more details, see ECE Graduate Handbook.

Advisor's signature/date \_\_\_\_\_

Student's signature/date \_\_\_\_\_