Master of Science in Electrical Engineering

Department of Electrical and Computer Engineering
College of Engineering

EE PhD Program Requirements for MS Degree in Electrical Engineering

The MS degree in Electrical Engineering is available to continuing PhD candidates upon completion of the prospectus. Students are required to earn at least 32 credits at the graduate level (500-level and above) with a GPA of 3.0 or greater. The credits must be from 7 courses and 4 credits of EC900.

Student's Name (In Print): _____ **BU ID** _____

Research Advisor: _____ **Co-Advisor** (if applicable) _____

PROGRAM REQUIREMENTS

1 **ECE ELECTIVES (20 credits)** - Please list your 20 credits (5 courses) from the electives on the next page. At least 12 of the credits (3 courses) must be Electrical Engineering Electives.

- _____
- _____
- _____
- _____
- _____

2 **GENERAL GRADUATE ELECTIVES (8 credits)** – Please list your 8 credits (2 courses) of general graduate electives. General graduate electives may include graduate-level ECE courses, other College of Engineering graduate-level courses, and College of Arts and Sciences graduate-level courses in technical areas (e.g., computer science, mathematics, physics, or biology).

- _____
- _____

3 **RESEARCH REQUIREMENT (4 credits)** – Please include a copy of completed prospectus form.

☐ EC900: ECE Research after passing prospectus

Advisor Name: _____ Advisor's Signature _____

Associate Chair: _____ Advisor's Signature _____

08/25/2022

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ECE MS Electives

EE and CE electives are grouped by topic for informational purposes only. The three courses used as EE electives may be chosen from a single sub-division of EE or they may be spread among multiple sub-divisions of EE.

See the College of Engineering Bulletin for course descriptions.

ELECTRICAL ENGINEERING ELECTIVES

- **Signal Processing and Communications**
  EC503, EC505, EC508, EC515, EC516, EC517, EC519, EC520, EC541, EC702, EC715, EC716, EC717, EC719, EC720
- **Systems and Control**
  EC501, EC505, EC517, EC524, EC701, EC702, EC710, EC724, EC733, EC734
- **Sensing and Information**
  EC503, EC 504 EC505, EC508, EC515, EC516, EC517, EC520, EC521, EC522, EC523, EC525, EC702, EC715, EC716, EC717, EC719, EC720
- **Computational and Cyberphysical Systems**
  EC501, EC504, EC524, EC541, EC544, EC701, EC724, ME/SE740, ME570
- **Bioelectrical**
  EC505, EC516, EC520, EC571, EC580, EC582, EC716, EC717, EC720, EC772, EC782, EC765
- **Electromagnetics and Photonics**
  EC555, EC556, EC560, EC562, EC563, EC566, EC568, EC569, EC570, EC573, EC591, EC707, EC731, EC760, EC762, EC763, EC764, EC765, EC770, EC773, EC777
- **Solid-State Circuits, Devices, and Materials**
  EC571, EC574, EC575, EC577, EC578, EC579, EC580, EC582, EC770, EC771, EC772, EC774, EC775, EC777, EC782

COMPUTER ENGINEERING ELECTIVES

- **Computer Communications/Networks**
  EC505, EC508, EC515, EC521, EC524, EC534, EC541, EC544, EC561, EC715, EC724, EC725, EC727, EC733, EC741, EC744, EC749
- **Hardware**
  EC513, EC527, EC535, EC551, EC561, EC571, EC580, EC582, EC713, EC749, EC752, EC753, EC757, EC772, EC782
- **Software**
  EC504, EC511, EC512, EC521, EC526, EC527, EC528, EC535, EC544, EC712, EC730
- **Cyber Security**
  EC504, EC521, EC541, CAS CS538, CAS CS548, CAS CS558