PROGRAM REQUIREMENTS

1. **Total of 32 credits (8 courses) at the graduate level (500-level and above) with grades of C or better.**

2. **A degree GPA >=3.0 for the 32 credits and a cumulative GPA of >= 3.0 for all credits taken while enrolled in the program.**

3. **20 credits from the total of 32 credits must be EC5XX and/or EC7XX, 12 credits of which must be from the EE Core:**

   Please list your 12 credits (3 courses) from the EE Core:
   - __________________________________________________
   - __________________________________________________
   - __________________________________________________

   Please list your additional two EC5XX and/or EC7XX courses:
   - __________________________________________________
   - __________________________________________________

4. **GRADUATE ELECTIVES** – the remaining 12 credits outside of the Core. Graduate electives may include College of Engineering courses, School of Management courses (e.g., leadership, entrepreneurship, project management), and College of Arts and Sciences courses in technical areas (e.g., computer science, mathematics, physics, biology).

   Please list your graduate electives:
   - __________________________________________________
   - __________________________________________________
   - __________________________________________________

5. **PRACTICUM -** (select one):

   a. □ Directed Group Project (EC952, maximum 6 credits. These credits are also counted as technical elective credits.)

   b. □ Two practicum-certified ECE courses (8 credits)

      If this option is selected, please specify your two practicum-certified ECE courses (these courses may also be used in EE Core or as technical electives. Please see back of this sheet for a list of practicum-certified ECE courses.)

      - __________________________________________________
      - __________________________________________________
ECE MS/MEng Core

(See the College of Engineering Bulletin for course descriptions)

Courses in the EE and CE Core are grouped according to sub-divisions. Please note that it is not necessary to choose more than one course from any sub-division.

**ELECTRICAL ENGINEERING CORE**

- **Signal Processing and Communications**
  EC505 EC508 EC515 **EC516** EC517 **EC520** EC541 **EC702** EC715 **EC716** **EC717** **EC719** **EC720**

- **Systems and Control**
  EC501 EC505 EC517 EC524 EC701 **EC702** EC710 **EC724** **EC733** EC734

- **Sensing and Information**
  Two courses from: EC505, EC508, EC515, **EC516**, EC517, **EC520**, **EC702**, EC715, **EC716**, **EC717**, **EC719**, **EC720**
  One course from: **EC504**, **EC521**

- **Computational and Cyberphysical Systems**
  Two courses from: EC501, EC524, EC541, EC701, **EC724**, ME/SE740, ME570
  One course from: **EC504**, **EC544**

- **Bioelectrical**
  EC505 **EC516** **EC520** EC571 EC580 EC582 **EC716** **EC717** **EC720** **EC772** **EC782** EC765

- **Electromagnetics and Photonics**
  EC560 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 CORE**

- **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** **EC527** **EC535** **EC544** **EC712** EC730

- **Cyber Security**
  **EC504** **EC521** EC541 - CAS CS538 CAS CS548 CAS CS558

¹ Practicum-certified ECE courses are indicated in bold.