The MEng curriculum requires completion of 32 graduate-level credits, with grades of C or higher and a cumulative GPA >= 3.0, while satisfying a specialization requirement and a practicum requirement. 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).

The specialization requirement is met by taking four structured graduate courses from a single specialization area (see next page for listing).

The practicum requirement is met by either: a) obtaining at least 4 credits of Directed Team Project (ENG EC952), or b) taking two 4-credit courses with significant practicum components as certified by the ECE Graduate Committee (see next page for listing).

STUDENT NAME ___________________________  BU ID ___________________________

SPECIALIZATION AREA ____________________________________________

SPECIALIZATION COURSES  1) ___________, 2) ___________, 3) ___________, 4) ___________

PRACTICUM COURSES  1) ___________, 2) ___________

ADDITIONAL COURSES  1) ___________, 2) ___________, 3) ___________, 4) ___________

TOTAL CREDITS ____________  CUMULATIVE GPA ____________

ADVISOR SIGNATURE ____________________________________________

1 Students with appropriate prerequisites may petition to use two 700-level courses to meet the specialization requirement.
MATRICULATION YEAR FALL 2014 – SPRING 2015

ECE MS/MEng Specialization Areas\(^2\)

(See the College of Engineering Bulletin for course descriptions)

**COMPUTER ENGINEERING SPECIALIZATION AREAS**

- **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 EC541 - CAS CS665 MET CS673

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

**ELECTRICAL ENGINEERING SPECIALIZATION AREAS**

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

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

- **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

- **Bioelectrical**\(^3\)
  
  EC505 EC516 EC520 EC571 EC580 EC582 **EC716** EC717 **EC720** **EC772** EC782 EC765

**PHOTONICS SPECIALIZATION AREAS**

- **Photonic Materials and Devices**
  
  EC560 EC574 EC575 EC591 EC760 **EC771** EC774 **EC777**

- **Fiber Optics and Optical Communications**
  
  EC560 EC563 EC568 EC591 EC760 **EC770**

- **Lasers and Applications**
  
  EC560 EC569 EC570 EC591 EC760 EC762 **EC763** EC764 EC765 EC773 EC774

\(^2\) ECE Courses with a significant practicum component are indicated in **bold**.

\(^3\) If the Bioelectrical specialization is selected, two of the graduate electives must be ENG BE 5XX or ENG BE 7XX.