Master of Engineering Program Planning Sheet

Department of Electrical and Computer Engineering
College of Engineering, **Boston University**

BOSTON UNIVERSITY

MATRICULATION YEAR FALL 2014 – SPRING 2015

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[1] 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.

Master of Engineering Program Planning Sheet

Department of Electrical and Computer Engineering
College of Engineering, **Boston University**

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 EC544** EC712 EC730 - MET CS665 MET CS673
- Cyber Security
  EC504 EC521 EC541 - 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.