Master of Science Program Planning Sheet

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

BOSTON UNIVERSITY

MATRICULATION YEAR FALL 2014 – SPRING 2015

The MS Curriculum requires completion of 32 ENG graduate-level credits, with grades of C or higher and a cumulative GPA >= 3.0, while satisfying a *specialization* requirement, a *practicum* requirement, and a *700-level* requirement.

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 MS Thesis (ENG EC901), or b) obtaining at least 4 credits of MS Project (ENG EC902), or c) taking two 4-credit courses with significant practicum components as certified by the ECE Graduate Committee (see next page for listing).

The 700-level requirement is met by ensuring that at least 4 credits toward the MS degree are from an ENG EC7XX course.

STUDENT NAME _____ BU ID _____

SPECIALIZATION AREA _____

SPECIALIZATION COURSES	1) _____, 2) _____, 3) _____, 4) _____
PRACTICUM COURSES	1) _____, 2) _____
EC7XX COURSE	1) _____
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.

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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.