# Master of Science Program Planning Sheet

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

Student Name: ___________________________  
BU ID: ___________________________

Specialization: ___________________________  
Email: ___________________________

The MS Curriculum requires completion of at least 32 graduate-level credits, with a cumulative GPA \( \geq 3.0 \), while satisfying a **specialization requirement** and a **thesis/project requirement**. The remaining credits must be graduate electives.

The **specialization requirement** is met by taking four structured graduate courses with grades of C or higher from a single specialization area (see the back of this sheet).\(^1\)

The **thesis/project requirement** is met by first having a research proposal approved and then successfully defending a 4-credit thesis or a 4-credit research project.

The **graduate electives** must be ENG graduate courses. You must obtain a grade of C or better in each graduate elective. 4 to 6 credits of courses of EC9XX are applicable towards meeting degree requirements.

## Program Form

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Credits</th>
<th>Sern/Year</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GRADUATE SPECIALIZATION</strong> (8-16 Credits)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
1. ______________ | ___ | ___ |
2. ______________ | ___ | ___ |
3. ______________ | ___ | ___ |
4. ______________ | ___ | ___ |
| **GRADUATE PROJECT/THESIS** (4 Credits) |  
1. Research Proposal | ___ | ___ |
2. Thesis or Project (circle one) | ___ | ___ |
| **GRADUATE ELECTIVES** (12-20 Credits) |  
1. ______________ | ___ | ___ |
2. ______________ | ___ | ___ |
3. ______________ | ___ | ___ |
4. ______________ | ___ | ___ |
5. ______________ | ___ | ___ |

Advisor Signature: ___________________________  
Total Credits: ___

\(^1\)Students with appropriate prerequisites may petition to use two 700-level courses to meet the specialization requirement.

**MATRICULATION YEAR FALL 2013 - SPRING 2014**
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ECE MS/MEng Specialization Areas
(Courses listed as XXX stand for ENG ECXXX. See catalog for course descriptions)

COMPUTER ENGINEERING SPECIALIZATION AREAS

• Computer Communications/Networks
  505 515 521 524 534 541 544 561 715 724 725 727 733 741 744 749
• Hardware
  513 527 535 551 561 571 580 582 713 749 752 753 757 772 782
• Software
  504 511 512 521 527 535 544 712 730 MET CS665 MET CS673
• Cyber Security
  504 521 541 CS538 CS548 CS558

ELECTRICAL ENGINEERING SPECIALIZATION AREAS

• Signal Processing and Communications
  505 515 516 517 520 702 715 716 717 719 720
• Systems and Control
  501 505 517 524 701 702 710 724 734
• Electromagnetics and Photonics
  560 563 566 568 569 570 573 591 707 731 760 762 763 764 765 770 773 777
• Solid-State Circuits, Devices, and Materials
  571 574 575 577 578 579 580 582 770 771 772 774 775 777 782
• Bioelectrical\(^2\)
  505 516 520 571 580 582 716 717 720 772 782 765

PHOTONICS SPECIALIZATION AREAS

• Photonic Materials and Devices
  560 574 575 591 760 771 774 777
• Fiber Optics and Optical Communications
  560 563 568 591 760 770
• Lasers and Applications
  560 569 570 591 760 762 763 764 765 773

\(^2\) If the Bioelectrical Specialization Area is selected, two of the graduate electives for the MS degree must be ENG BE 5XX or ENG BE 7XX.