<table>
<thead>
<tr>
<th>Core Courses: 9 credit-hours</th>
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</thead>
<tbody>
<tr>
<td>Electives: 15 credit-hours</td>
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<tr>
<td>Thesis: 6 credit-hours</td>
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### Communication Systems

#### Area of Interest

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<td>EE 6010 – Math. Methods for Signal Processing</td>
</tr>
<tr>
<td>EE 6020 – Stochastic Processes</td>
</tr>
<tr>
<td>EE 6760 – Digital Communications</td>
</tr>
</tbody>
</table>

#### Elective Courses

(Thesis option requires 15 credit-hours. Non-thesis option requires 30 credit-hours)

- EE 6030 – Linear Systems
- EE 6720 – Pattern Recognition
- EE 6770 – Satellite Communication Systems
- EE 7712 – Image Processing
- EE 7714 – Satellite Remote Sensing
- EE 7716 – Computer Vision
- EE 7730 – Speech Processing
- EE 7740 – Algorithms for Digital Signal Processing
- EE 7772 – Wireless Communications
- EE 7780 – Special Topics in Signal Processing

The student may include up to 6 credit-hours selected from this list:

- EE 5714 – Digital Communications Systems*
- EE 5720 – Digital Signal Processing*
- EE 5730 – RF Circuit Design

The student may include up to 6 credit-hours selected from this list:

- CECS 6120 – Computer Architecture
- CECS 6130 – Data Comm. and Comp. Networks
- CECS 6150 – Object Oriented Design
- CECS 6510 – Software Engineering
- CECS 6010 – Advanced Design and Analysis of Algorithms
- CECS 6240 – Technology-Based Start-Up
- CECS 7550 – Artificial Intelligence

### Thesis or Project

- EE 7800 – Thesis
- EE 7801 – Thesis Extension
- EE 7790 – Project for Master in Electrical Engineering
- EE 7791 – Project Extension for Master in Electrical Engineering

* Must be taken if not completed during the undergraduate studies.

Contact Information:
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Phone: 787-622-8000 Ext. 686
**Universidad Politécnica de Puerto Rico**
Graduate School
Master Program in Electrical Engineering

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**Digital Signal Processing Area of Interest**

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<tr>
<td>EE 6030 – Linear Systems</td>
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</table>

**Elective Courses**

*Thesis option requires 15 credit-hours. Non-thesis option requires 30 credit-hours*

EE 6632 – Non-Linear Control
EE 6660 – Advanced Robotics Manipulators
EE 6720 – Pattern Recognition
EE 6740 – Intelligent Control
EE 6760 – Digital Communications
EE 6770 – Satellite Communication Systems
EE 7712 – Image Processing

The student may include up to 6 credit-hours selected from this list:

EE 5714 – Digital Communications Systems
EE 5720 – Digital Signal Processing*
EE 5730 – RF Circuit Design

The student may include up to 6 credit-hours selected from this list:

CECS 6120 – Computer Architecture
CECS 6130 – Data Comm. and Comp. Networks
CECS 6150 – Object Oriented Design
CECS 6510 – Software Engineering

CECS 6010 – Advanced Design and Analysis of Algorithms
CECS 6240 – Technology-Based Start-Up
CECS 7550 – Artificial Intelligence

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