10 courses are required for the degree, at least 3 of which must be 700-level. They must be completed within five years.

Required Courses: There are seven Required Courses below.

- 525.783 – Spread Spectrum Communications
- 595.740 – Assuring Success of Aerospace Programs
- 645.769 – System Test and Evaluation
- 675.401 – Fundamentals of Engineering Space Systems I
- 675.402 – Fundamentals of Engineering Space Systems II
- 675.701 – Space Systems Engineering Technical Seminar
- 675.710 – Space Systems Engineering Capstone Project

Electives: Three electives must be taken from the Electives list below.

### COURSE SCHEDULE

<table>
<thead>
<tr>
<th>REQUIRED COURSES</th>
<th>APL/Dorsey</th>
<th>SMHEC</th>
<th>MCC</th>
<th>Online</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number</td>
<td>Course Title</td>
<td>Prerequisites</td>
<td>Sum</td>
<td>Fall</td>
</tr>
<tr>
<td>525.783</td>
<td>Spread-Spectrum Communications</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>595.740</td>
<td>Assuring Success of Aerospace Programs</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>645.769</td>
<td>System Test and Evaluation</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>675.401</td>
<td>Fundamentals of Engineering Space Systems I</td>
<td>401</td>
<td>X</td>
<td></td>
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<td>Space Systems Engr Technical Seminar</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>675.710</td>
<td>Space Systems Engr Capstone Project</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ELECTIVE COURSES (select three)**

- 525.416 Communication Systems Engineering | X | X | X | X | X | | fall |
- 525.440 Satellite Communications Systems | X | | X | | |
- 525.445 Modern Navigation Systems | X | | | | |
- 595.414 Project Mgmt in an Earned Value Environment | 464 | X | X | | | sum/fall/spr |
- 595.464 Project Planning and Control | 460 | X | X | X | X | | sum/fall/spr |
- 595.763 Software Engineering Management | 462 | X | X | X | | | fall/spr |
- 645.462 Introduction to Systems Engineering | None | X | X | X | | | sum/fall/spr |
- 645.767 System Conceptual Design | X | X | X | | | | |
- 645.768 System Design and Integration | X | X | X | | | | |
- 675.800 Directed Studies in SSE – on request | | | | | | | fall/spr |

Schedule below should be used for your program planning. Future changes will be included in schedule updates, which will be issued as necessary.

Prerequisites below will generally apply, but may be waived by the program chair in special circumstances.

Check the website, [http://ep.jhu.edu/](http://ep.jhu.edu/), for course offerings each semester. New courses may be added or changes made to the schedule below. Enroll early as many of the courses will fill.

Course offerings vary by location, semester or format. You may take courses at any campus or any semester they are offered. ODD/EVEN indicates the course is given in odd or even years.

Refer to the website each semester to see which courses are offered at the Dorsey Center. The Dorsey Center is included under APL Center below. Some Systems Engineering (645) courses are offered at other EP locations. See current course schedule.

Courses are subject to cancellation for insufficient enrollment. Consult the course schedule online each semester. If a course you planned to take is not listed in this schedule, consult your advisor.