### Doctor of Philosophy Plan of Study

**Engineering and Applied Science**

<table>
<thead>
<tr>
<th>Student ID Number</th>
<th>Date Entered Program</th>
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<tbody>
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<table>
<thead>
<tr>
<th>Student Name:</th>
<th>(last)</th>
<th>(first)</th>
<th>(middle)</th>
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<table>
<thead>
<tr>
<th>Address (home):</th>
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<table>
<thead>
<tr>
<th>City</th>
<th>State</th>
<th>Zip</th>
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<table>
<thead>
<tr>
<th>Phone:</th>
<th>Email</th>
<th>Research Advisor:</th>
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**Curriculum Option: Computational Science and Engineering (CSE)**

Required 36 credits (minimum amount) coursework including 12 credits of core courses in the option and 12 credits at the 600-level or above. 24 credits of Advanced Standing and/or 6 transfer credits are allowed. (Attach UMassD approval forms.)

**Required 12 credits of core courses in the option**

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course title</th>
<th>Institution</th>
<th>Term/Year</th>
<th>Req'd/Elective</th>
<th>Grade</th>
<th>Credit/Hours</th>
</tr>
</thead>
<tbody>
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</table>

**Required 6 credits of minor area courses**

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course title</th>
<th>Institution</th>
<th>Term/Year</th>
<th>Req'd/Elective</th>
<th>Grade</th>
<th>Credit/Hours</th>
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</table>

**Required 9 credits of mathematics and computational courses**

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course title</th>
<th>Institution</th>
<th>Term/Year</th>
<th>Req'd/Elective</th>
<th>Grade</th>
<th>Credit/Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAS 501</td>
<td>Advanced Mathematical Methods</td>
<td></td>
<td></td>
<td>R</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>EAS 502</td>
<td>Computational Methods</td>
<td></td>
<td></td>
<td>R</td>
<td>3</td>
<td></td>
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<tr>
<td>EAS 520</td>
<td>High Performance Scientific Computing</td>
<td></td>
<td></td>
<td>R</td>
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</tbody>
</table>

**Required enrollments in EAS graduate seminar courses (full-time Ph.D. students only)**

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course title</th>
<th>Institution</th>
<th>Term/Year</th>
<th>Req'd/Elective</th>
<th>Grade</th>
<th>Credit/Hours</th>
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<tbody>
<tr>
<td>EAS 602</td>
<td>Research Ethics</td>
<td>UMassD</td>
<td>R</td>
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<tr>
<td>EAS 700</td>
<td>Doctoral Seminar</td>
<td>UMassD</td>
<td>R</td>
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</tbody>
</table>
### Required 6 credits in EAS research seminar courses

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course title</th>
<th>Institution</th>
<th>Term/Year</th>
<th>Reqd/Elective</th>
<th>Grade</th>
<th>Credit/Hours</th>
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</thead>
<tbody>
<tr>
<td>EAS 621</td>
<td>Scientific Computational Research Seminar</td>
<td>UMassD</td>
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<td>R</td>
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<tr>
<td>EAS 622</td>
<td>Scientific Computational Research Seminar</td>
<td>UMassD</td>
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### Required 3 credits in Dissertation Proposal Preparation

<table>
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<tr>
<th>Course No.</th>
<th>Course title</th>
<th>Institution</th>
<th>Term/Year</th>
<th>Reqd/Elective</th>
<th>Grade</th>
<th>Credit/Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAS 600</td>
<td>Dissertation Proposal Preparation</td>
<td>UMassD</td>
<td></td>
<td>R</td>
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### Required 27 credits for doctoral research

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course title</th>
<th>Institution</th>
<th>Term/Year</th>
<th>Reqd/Elective</th>
<th>Grade</th>
<th>Credit/Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAS 601</td>
<td>Doctoral Dissertation Research</td>
<td>UMassD</td>
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<td>R</td>
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<tr>
<td>EAS 701</td>
<td>Doctoral Dissertation Research</td>
<td>UMassD</td>
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Total number of credits for this degree expected by graduation *(66 min.)*: _________________________

(Graduate Course hours plus Research and Dissertation hours)

### Examinations for Ph.D. Degree:

<table>
<thead>
<tr>
<th>Date</th>
<th>Examination</th>
<th>Committee Chair</th>
<th>Result</th>
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<tbody>
<tr>
<td></td>
<td>Qualifying Examination</td>
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<tr>
<td></td>
<td>Comprehensive Examination</td>
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<td>Pass</td>
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<tr>
<td></td>
<td>Dissertation Defense</td>
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<td>Pass</td>
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### Tentative Dissertation Title

____________________________________________________________________________________

**Approvals**

<table>
<thead>
<tr>
<th></th>
<th>Signature</th>
<th>Date</th>
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<tbody>
<tr>
<td>Student</td>
<td></td>
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</tr>
<tr>
<td>Advisor</td>
<td></td>
<td></td>
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<tr>
<td>Graduate Program Director</td>
<td></td>
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</tr>
<tr>
<td>College Dean</td>
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<tr>
<td>Graduate Studies Office</td>
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</table>

**Instructions:** The "Plan of Study" consists of the list of courses to be completed by the student in partial fulfillment of the Ph.D. degree requirements. This form should be completed by the student and approved by the student’s research/academic advisor within the first year after entering the PhD program. The advisor should forward the completed form to EAS Program Assistant or Program Director who will coordinate the remaining approvals. A copy of this form will be kept on file and can be updated at any time.