**Proposed Graduate Program of**

**[INSERT NAME HERE]**

**Leading to the Degree of**

**Doctor of Philosophy in Biological Systems Engineering**

**RESEARCH COURSES:** *(minimum of 30, maximum of 60)*

|  |  |  |  |
| --- | --- | --- | --- |
| Subject | Course No. | Course Title | Credit Hrs |
| BSE | 7994 | Research and Dissertation |  |

**5000-LEVEL (or higher) COURSES:** *(do not include transferred courses)*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Semester | Subject | Course No. | Course Title | Credit Hrs |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| *Subtotal* | | | |  |

**4000-LEVEL COURSES:** *(if applicable)*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Semester | Subject | Course No. | Course Title | Credit Hrs |
|  |  |  |  |  |
|  |  |  |  |  |
| *Subtotal* | | | |  |

**TRANSFERRED 5000-LEVEL COURSES:** *(if applicable; see notes below)*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Semester | Subject | Course No. | Course Title | Grade | Credit Hrs |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| *Subtotal* | | | | |  |

*NOTES:*

*Maximum of 50% of graded coursework can transfer from MS degree and/or other university.*

*You can only transfer courses in which you earned a grade of ‘B’ or better.*

*Attach a copy of your transcript, as well as a course description for each course transferred.*

*For transfer courses more than 5 years old, a Justification of ‘Old’ Coursework form must be filed with the Plan of study.*

**Total Credit Hours: [TOTAL]**

**I have attached the following required documents:**

\_\_\_ Research prospectus

\_\_\_ Documents showing the fulfilment of Ethics and Integrity trainings *(if applicable)*

\_\_\_ Copy of transcript for courses transferred *(if applicable)*

\_\_\_ Course descriptions for each course transferred *(if applicable)*

\_\_\_ Justification of ‘Old’ Coursework form for transfer courses more than 5 years old *(if applicable)*

\_\_\_ CV for any committee members outside Virginia Tech or non-tenure-track faculty *(if applicable)*

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Signature of Candidate Date Submitted**

**VERIFICATION OF DEGREE REQUIREMENTS:**

**COMMITTEE CHAIR: Please initial below certifying that this plan meets the following degree requirements. Be sure to list which courses meet the MATH/STAT requirement.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CRITERIA | HOURS | NOTES | | | INITIALS |
| Total credits | 90 min. |  | | |  |
| Course credits | 30 min |  | | |  |
| Research credits | 30-60 |  | | |  |
| 5000-level\* courses | 15 min. | \*or higher | | |  |
| 4000-level courses | 6 max. |  | | |  |
| Special/Indep. Study | 18 max. | These are courses numbered X974 or X984. | | |  |
| BSE courses | 9 min. | Cannot be satisfied by X974 (independent study) courses. | | |  |
| Transferred BSE Course Designation  List here: | 3 max. | Only 3 transferred credits can be used to satisfy the minimum required BSE courses.  (Must have approval of BSE faculty member and syllabus for course being used) | | |  |
| BSE 5944 (Seminar) | 2 req. | Counts toward degree twice. Must be taken first fall semester and one spring semester. | | |  |
| Math/Statistics courses  *List here:* | 12 min. | Can be satisfied by taking either math/stat courses or approved math/stat equivalents. | | |  |
| Significant teaching experience |  | Each PhD student is required to have the equivalent of at least one semester credit hour of teaching experience. | | |  |
| Teaching course |  | E.g. EDCI 6644. This is a recommendation, NOT a requirement. | | |  |
| Ethics and Integrity trainings  (please list the date of completion) | Graduate orientation |  | | |  |
| BSE 5944 |  | | |  |
| Responsible conduct of research |  | | |  |
| Diversity Training | ENGE 5304: Graduate Student Success in Multicultural Env. | | |  | |
| Does student have a prior engineering degree | Yes / No | Fluid Mechanics:  List Here | Thermodynamics:  List Here | | |

**ADVISORY COMMITTEE APPROVAL:** *(see notes below)*

Chair: [Type NAME and DEPT/ORG here] \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

Signature Date

Co-Chair: [Type NAME and DEPT/ORG here] \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

*(if applicable)* Signature Date

Member: [Type NAME and DEPT/ORG here] \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

Signature Date

Member: [Type NAME and DEPT/ORG here] \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

Signature Date

Member: [Type NAME and DEPT/ORG here] \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

Signature Date

*NOTES: Committee must have a minimum of 4 total members (including advisor).*

*At least one member must be from outside BSE.*

*For committee members outside of Virginia Tech, a current curriculum vitae must be attached.*

**DEPARTMENTAL APPROVAL:**

Graduate Program Director: Cully Hession \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

Signature Date

Department Head: Dwayne Edwards \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

Signature Date