

# Engineering Mechanics MS – Research, NON-THESIS Option Curriculum Approval and Warrant

**Request Form:** Submit completed form to the EP Graduate Student Services Coordinator, ME 3182.

Student Name: \_\_\_\_\_

Wisc ID: \_\_\_\_\_

Wisc Email: \_\_\_\_\_

Advisor: \_\_\_\_\_

*\*\*Degree Requirements also include 30 credits minimum and 15 credits satisfying Graduate School 50% Minimum Coursework Requirement. All courses must be 500+ level with at least 15 credits minimum 600+ level or from this list: EMA 508, 519, 522, 523, 540, 541, 547, 548, 570. Place \* next to the course number if course was taken as a UW-Madison/ABET undergraduate or previously earned graduate credits (see handbook for additional details). Attach "Previously Earned Credits Approval Form" to this warrant request.*

Form Completion Example:

|         |                                 |           |   |   |   |   |
|---------|---------------------------------|-----------|---|---|---|---|
| EMA 605 | Introduction to Finite Elements | Fall 2018 | A | 3 | 3 | 3 |
|---------|---------------------------------|-----------|---|---|---|---|

| <b>Math Requirement (3 credits, 1 course)</b>   |       |           |       |         |     |            |
|---|-------|-----------|-------|---------|-----|------------|
| <i>Courses: EMA: 547, 548; MATH: 519, 521, 522, 540, 619, 623, 703, 704, 714, 715</i> |       |           |       |         |     |            |
| Course #  | Title | Term/Year | Grade | Credits | 50% | 600+ level |
|   |       |           |       |         |     |            |

| <b>Breadth Requirement (5 courses required, 3 must be * courses, and must have 2 courses in each of 2 lists)</b>  |       |           |       |         |     |            |
|---|-------|-----------|-------|---------|-----|------------|
| <i><b>Solid Mechanics:</b> EMA: 506*, 508, 519*, 541*, 570, 605*, 611*, 615*, 622*, 630*, 700*, 703, 705*, 706, 708, 722;<br/>ME: 603* (FE for Biomechanics), 753</i> |       |           |       |         |     |            |
| <i><b>Fluid Mechanics:</b> EMA: 521*, 622*; ME: 563*, 572*, 573*, 769, 770, 773, 774, 775; MATH 705</i>   |       |           |       |         |     |            |
| <i><b>Dynamics:</b> EMA: 523*, 540*, 542*, 545*, 550, 610*, 642*, 742*, 745*, 747*; ME: 577, 740, 747, 748</i>  |       |           |       |         |     |            |
| Course #  | Title | Term/Year | Grade | Credits | 50% | 600+ level |
|   |       |           |       |         |     |            |
|   |       |           |       |         |     |            |
|   |       |           |       |         |     |            |
|   |       |           |       |         |     |            |

| <b>Depth Requirement (2 courses required)</b>   |       |           |       |         |     |            |
|---|-------|-----------|-------|---------|-----|------------|
| <i>Courses: any EMA course 700+ level (except 601, 790, 890, 990, 999); CBE 720;; CEE: 730, 735, 740; MATH 705; MS&amp;E/GLE 705; ME: 740, 746, 747, 748, 751, 753, 769, 770, 773, 774, 775; [EMA 601 may be used if given '700 level' equivalency by instructor]</i> |       |           |       |         |     |            |
| Course #  | Title | Term/Year | Grade | Credits | 50% | 600+ level |
|   |       |           |       |         |     |            |
|   |       |           |       |         |     |            |

| <b>Independent Study (EMA 599; 3 credits required)</b> |       |           |       |         |  |  |
|--|-------|-----------|-------|---------|--|--|
| Course #   | Title | Term/Year | Grade | Credits |  |  |
|  |       |           |       |         |  |  |
|  |       |           |       |         |  |  |
|  |       |           |       |         |  |  |

| <b>Additional Courses (A maximum of 3 credits of Seminar may be used toward this degree.)</b> |       |           |       |         |     |            |
|---|-------|-----------|-------|---------|-----|------------|
| Course #  | Title | Term/Year | Grade | Credits | 50% | 600+ level |
|   |       |           |       |         |     |            |
|   |       |           |       |         |     |            |
|   |       |           |       |         |     |            |

**GPA:** \_\_\_\_\_

**Totals:** \_\_\_\_\_

*Grade Policy: Grades of "B" or better in all courses. Credits of "C" are permitted if balanced by 2x "A" or 4x "AB" credits. Credits of "BC" permitted if balanced by 2x "AB" or equal number of "A" credits.*

Faculty Advisor Signature: \_\_\_\_\_

Date: \_\_\_\_\_

I agree to advise this student in the EM PhD program (Yes or No): \_\_\_\_\_