

## Department of Mechanical Engineering

Unofficial Graduation Check – BS to PhD Program (for students without a Master degree)

\_\_\_\_\_  
Name (Last, First)

\_\_\_\_\_  
EMPL ID

\_\_\_\_\_  
Term / Year

\_\_\_\_\_  
Major Professor

\_\_\_\_\_  
Expected Graduation Date

### I. Core Courses

Take EML 5060 – Analysis in Mechanical Engineering I and **TWO** core courses from your major depth area.

Dynamics & Controls		
Course	T/Y	Grade
EML 5060 – Analysis in Mech. Engineering		
EGM 5444 – Advanced Dynamics		
EML 5317 – Advanced Control Sys		
EML 5361 – Multivariable Control		
EML 5930 – Adaptive Controls		

Fluid Mechanics & Heat Transfer		
Course	T/Y	Grade
EML 5060 – Analysis in Mech. Engineering		
EGM 5152 – Heat Transfer		
EML 5155 – Convective Heat Transfer		
EML 5709 – Fluid Mechanics		
EML 5930 – Adv. Eng. Thermodynamics		

Solid Mechanics & Materials		
Course	T/Y	Grade
EML 5060 – Analysis in Mech. Engineering		
EGM 5611 – Continuum Mechanics		
EGM 5653 – Theory of Elasticity		
EML 5930 – Advanced Materials		

### II. General Engineering & Advanced Mathematics

Take EML 5061 – Analysis in Mechanical Engineering II and one additional course from the course list. **No DIS, Supervised Research (SR) or any other S/U graded course.**

Course	T/Y	Grade
EML 5061 – Analysis in Mech. Eng. II		

### III. Mechanical Engineering Courses

Select 2 graduate-level courses in Mechanical Engineering. **No DIS, Supervised Research (SR) or any other S/U graded course.**

Course	T/Y	Grade

### IV. Electives

Select 5 graduate-level courses in engineering, mathematics and/or any science discipline. **No DIS, Supervised Research (SR) or any other S/U graded course.**

Course	T/Y	Grade

### V. Preliminary Examination, Doctoral Residency & Professional Development Requirements

EML 8968 – Preliminary Examination. Checklist for additional requirements.

Course	T/Y	Grade
PIE Teaching Conference →		
Research Ethics Training (CITI) →		
EML 8968 – Preliminary Examination →		
Dissertation Committee Formation →		
Doctoral Residency Requirement (FSU) →		

Course	T/Y	Grade
Prospectus Defense →		
Supervised Teaching Experience →		
Graduate Seminar Presentation →		

### VI. Dissertation & Dissertation Defense

Twenty-four credit hours of EML 6980 - Dissertation (1-12). Register for EML 8985 – Dissertation Defense in final term.

Course	Credits	T/Y	Grade
EML 6980 – Dissertation (1-12)			
EML 6980 – Dissertation (1-12)			
EML 6980 – Dissertation (1-12)			
EML 6980 – Dissertation (1-12)			
EML 8985 – Dissertation Defense (0)			