WELCOME MS GRADUATE STUDENTS

NEW MS GRAD STUDENT PRE-ORIENTATION
MS THESIS & NON-THESIS OPTION

<table>
<thead>
<tr>
<th></th>
<th>Class Credits</th>
<th>Total Credits *</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.S. non-thesis</td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td>M.S. thesis</td>
<td>24</td>
<td>30</td>
</tr>
<tr>
<td>Ph.D.</td>
<td>39</td>
<td>90</td>
</tr>
</tbody>
</table>

EAS/EML6791 – MS Research

Min for degree cert last term=
3 credits Fall or Spring
2 credits Summer

Max in degree program =
6 credits
MS DEGREE COURSE REQUIREMENTS

- 17 Credits (including CORE) in MAE
  (Select EG Innovation or Leadership Institute coursework may also fulfill this requirement)
- 13 Credits Outside of MAE
  (Major, Department, and EG Innovation or Leadership Institute coursework will fulfill this requirement)
- Guidelines for Plan of Study
  [http://vm1-mae.ad.ufl.edu/current/graduate/degree-programs-requirements](http://vm1-mae.ad.ufl.edu/current/graduate/degree-programs-requirements)
# MS BENCHMARKS

## YEAR 1

<table>
<thead>
<tr>
<th>Task</th>
<th>Objective</th>
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</thead>
<tbody>
<tr>
<td>Determine field of specialization (DSC, SMDM, TSFD)</td>
<td>Apply for degree certification</td>
</tr>
<tr>
<td>MS Thesis</td>
<td>MS Thesis</td>
</tr>
<tr>
<td>Create and Submit Supervisory Committee and Plan of Study</td>
<td>Defend and submit final thesis</td>
</tr>
<tr>
<td>MS Non-Thesis</td>
<td>MS Non-Thesis</td>
</tr>
<tr>
<td>Create self-guided degree requirements worksheet</td>
<td>Complete online MS final exam</td>
</tr>
</tbody>
</table>

## YEAR 2

### EXPERIENTIAL LEARNING – Internship

MAE Internship Database Under Construction!
MS DEGREE PROGRESS – YEAR 1

- Establish general field of specialization
  - Dynamics, Systems, and Control (DSC)
  - Solid Mechanics, Design, and Manufacturing (SMDM)
  - Thermal Science and Fluid Dynamics (TSFD)

- Complete self-guided degree requirements worksheet
  - Course projections [http://vm1-mae.ad.ufl.edu/current/course-schedules](http://vm1-mae.ad.ufl.edu/current/course-schedules)

- Declare MS Thesis (if applicable)
  - Must declare MS Thesis by end of the first term
  - Create supervisory committee
MS DEGREE PROGRESS/COMPLETION – YEAR 2

- Confer MS - 30 Credits
  Maximum of 4 credits EAS/EML6905

- MS Thesis – Defend and submit thesis

- MS Non-Thesis – Complete online final exam

NOTE

During the final term in which the degree is awarded, the student must be registered for credits that count toward the graduate degree. MS Thesis – EAS/EML6971
DYNAMICS, SYSTEMS, AND CONTROL (DSC)

- **CORE**

  EML 5215 Analytical Dynamics
  EML 5311 Control System Theory
  EML 6281 Robot Geometry I

**NOTE:** Core is optional, however, the MS final exam questions are generated using the content from DSC core coursework.
SOLID MECHANICS, DESIGN, AND MANUFACTURING (SMDM)

- Complete 3 of 5 core courses

- CORE
  - EML 5233 Failure of Materials in Mechanical Design
  - EML 5526 Finite Element Analysis and Application
  - EGM 5533 Applied Elasticity and Advanced Mechanics of Solids
  - EML 6324 Fundamentals of Production Engineering
  - EGM 6611 Continuum Mechanics
THERMAL SCIENCE & FLUID DYNAMICS (TSFD)

- Complete min of 3 core courses
  - EML 5104 Intro to Classical & Statistical Thermodynamics
  - EML 6154 Conduction Heat Transfer
  - EML 6155 Convection Heat Transfer I
  - EAS 6138 Gas Dynamics
  - EGM 6812 Fluid Dynamics I
  - EGM 6813 Fluid Dynamics II
ACHIEVEMENT AWARD

- Non-Florida Residents ONLY
- Partial tuition waiver of $1500 each term for 3 terms
- Minimum enrollment of 9 credits within each term
- Must be used within the first two years of enrollment
- May be deferred while on internship
- No other support (assistantship, fellowship, scholarship)
CERTIFICATE PROGRAMS
If you are interested in pursuing a certificate program (similar to a minor), you may potentially fulfill 9 credits of out of department coursework while completing a College of Engineering or MAE certificate program or a minor from another UF department.

- Application - [http://admissions.ufl.edu/apply/more#certificates](http://admissions.ufl.edu/apply/more#certificates)
- MAE Certificate Programs - [http://www.mae.ufl.edu/current/graduate](http://www.mae.ufl.edu/current/graduate)