Additive Manufacturing

Master of Engineering: 30 Credits / 10 Courses

Students in the Professional Master of Engineering in Additive Manufacturing program must take five core courses and five technical electives. Technical electives can be chosen from the remaining core list or the pre-approved technical elective list. Students may also choose other related courses to fill these requirements with approval of an advisor. There is no research or thesis required for this degree.

Additive Manufacturing Core (required):

- ENME744 Additive Manufacturing*

Additive Manufacturing Core (choose four):

- ENME600 Engineering Design Methods*
- ENME607 Engineering Decision Making*
- ENME610 Engineering Optimization
- ENME743 Applied Machine Learning for Engineering and Design OR ENME808E Advanced Topics in Mechanical Engineering; Machine Learning: Theory and Applications
- ENPM671 Advanced Mechanics of Materials (every spring)

Additive Manufacturing Pre-approved Technical Elective Courses (choose five):

- ENPM808G Additive Manufacturing for Aerospace, Energy and Water Applications* (Fall 2019)
- ENPM809C Applied Statistics
- ENPM809D Applied Energy Optimization (Spring 2019)
- ENPM809E Applied Topology Optimization (Spring 2019)
- ENPM809N Data Mining
- ENME627 Manufacturing with Polymers
- ENME647 Multiphase Flow and Heat Transfer
- ENME672 Composite Materials
- ENME770 Life Cycle Cost and System Sustainment Analysis

NOTE: Any courses not listed above must be approved by the Senior Academic Advisor PRIOR to registration.

DISCLAIMER: All offerings are tentative and subject to change. Updated 9/17/2018
Additive Manufacturing

Student Name (Last, First):_________________________  Student ID ________________

Beginning Term: ________________  Anticipated Graduation: ________________

Background (Educational, Training, Career, etc.):

Objective (Career Field, Areas of Interest, etc.):

Additive Manufacturing Required Core:

<table>
<thead>
<tr>
<th>Course</th>
<th>Planned Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENME744</td>
<td></td>
</tr>
</tbody>
</table>

Additive Manufacturing Core:

<table>
<thead>
<tr>
<th>Course</th>
<th>Planned Term</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Choose From: ENME600, ENME607, ENME610, ENME743/ENME808E, ENPM671, ENME741, ENPM808Q

Additive Manufacturing Technical Electives:

<table>
<thead>
<tr>
<th>Course</th>
<th>Planned Term</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Preapproved Electives: ENPM641, ENPM808G, ENPM809C, ENPM809D, ENPM809E, ENPM809N, ENME627, ENME647, ENME672, ENME770

Comments:

NOTE Any courses not listed above must be approved by the Senior Academic Advisor PRIOR to registration.

Student Signature                                    Date

Advisor Signature                                      Date

DISCLAIMER: All offerings are tentative and subject to change.  Updated 9/17/2018