CEMS HONORS SCHOLARS

Welcome to the CEMS Honors Scholars Program! As part of the CEMS Honors Scholars Program, you will participate in an Annual Leadership Retreat in January, participate in extra curricular research or design experiences, and complete a thesis in your senior year. The Table below provides details about requirements and opportunities.

<table>
<tr><th>Year</th><th>Fall</th><th>Spring</th></tr>
<tr><td>1</td><td>HCOL Fall Course – HCOL 1000
Note: fulfills Foundational Writing and Information Literacy 1 requirement</td><td>HCOL 1500
Diversity 1 course recommended for engineering majors</td></tr>
<tr><td>2</td><td>HCOL 2000
Diversity 1 or Diversity 2 course for engineering majors</td><td>HCOL 2000
Choose a course that fulfills a Catamount Core requirement – consult with your Academic Advisor, if you have questions</td></tr>
<tr><td>Must be completed by April of the Junior year</td><td colspan="2">1 RESEARCH, DESIGN, OR CATCODERS EXPERIENCE
- Research Experience with a faculty member (for credit or pay)
- Internship in your field
- Work on Catcoders project
- Significant role on a project run by one of the CEMS clubs

ATTENDANCE AT 4 HCOL Workshops. Examples include
- Writing Patents
- Basics of Business Plan / Proposal Writing
- Leadership in Industry Talk
- Using Github and Open Source Resources
- Quick Introduction to R
- Accessing the Scientific Literature through the Library</td></tr>
<tr><td>3</td><td>CEMS 2010 – Seminar Series from Industry, National Labs, Faculty, and Students</td><td>CEMS 2020 – Thesis Proposal and Preparation</td></tr>
<tr><td>4</td><td colspan="2">THESIS
Select one of the following (Options 2 and 3 Require significant pre-planning):

1. Traditional Research Thesis 3 credits Fall / 3 credits Spring of senior year. Please see the curriculum checksheets to see what courses the thesis replaces.

2. 3 credit industry internship for credit (CEMS 190 – or a new course for HCOL internships) followed by 3 credit thesis credits in the same topic. This would require coordination with industry partners & the supporting faculty member. This would be for summer junior year / fall senior year.

3. 3 credit HCOL REU experience in the spring of junior year followed by paid summer research and 3 credits of thesis in the fall of senior year. Or 3 credits HCOL REU in the summer followed by 3 credits of thesis in the fall of senior year.

All students participate:
In the spring undergraduate research conference. (Separate from the defense).</td></tr>
</table>

Thesis Prep Actions for Junior Year	1. Take CEMS 2010 & 2020 2. Begin meeting with faculty in the fall to identify a research advisor. 3. Decide whether you will do a traditional thesis or one of the other options and the timing of your thesis semesters. 4. Finish your thesis proposal by the end of CEMS 102. 5. Identify (with your advisor) a thesis committee of two other faculty, one of them outside your program. *All CEMS-Honors College students should be following the curriculum check sheets on the College of Engineering and Mathematical Sciences webpage. CEMS undergraduate majors checksheets.*
Thesis Action Items for Thesis Semesters	1. Register for Honors Thesis Credits (in some departments this is under your research advisors names, in others there is just one section) 2. Meet with your advisor weekly 3. For the second semester of your thesis, turn in a thesis by April 1 or Nov 1. 4. For the second semester of your thesis, complete a thesis defense by April 15 or November 15.
Thesis Defense Requirements	The presentation should be about thirty minutes long, and must be attended by the Honors Thesis Committee and announced publicly at least one week prior to the presentation date. No formal evaluation is associated with the presentation, but it should serve as a discussion of the thesis, with the goal of providing constructive suggestions towards improving the final manuscript. All revisions are due by Nov 30 or April 30.