

# COMMONWEALTH HONORS COLLEGE FULL CURRICULUM

Notes for Chemical Engineering Students shown in Blue, Updated 08/10/2015 by Prof. Schiffman

**FOR STUDENTS ENTERING UMASS SUMMER 2015 OR LATER**

3.400 minimum cumulative GPA at graduation, minimum grade of B or higher in all Honors courses and 45 graded residence credits require

For questions about GSH or MH contact the Commonwealth Honors College.

For questions about DH, send SPECIFIC questions to schiffman@ecs.umass.edu. Prof. Schiffman can answer most questions via e-mail, appointments will be set-up as needed.

The General Studies Honors Component* (GSH) <i>focuses on breadth of study during (First and Sophomore years)</i>	
Honors Course Requirements	Approved Alternatives
1. ENGLWRIT 112H	If College Writing is completed prior to CHC admission, any Gen Ed Honors Course (3 -or-more cr.) (a), <i>if you have AP credit then (b)</i>
2. HONORS 201H "Ideas that Change the World" (Gen Ed "I," 4 cr.)	No exceptions <a href="#">Try to take first-year</a>
3. HONORS 391AH Special Topics (1 cr.), prerequisite of sophomore standing	No exceptions <a href="#">Try to take first or sophomore year. Any course listed on website: https://www.honors.umass.edu/academics/courses/honors391a</a>
4. Gen Ed honors course (3 -or-more cr.)	No exceptions (a), <i>if you have AP credit then (b)</i>
5. Gen Ed honors course (3 -or-more cr.)	No exceptions (a), <i>if you have AP credit then (b)</i>
<p><b>*NOTE:</b> Students pursuing General Studies Honors (GSH) only, without DH or MH, must additionally complete their School's/College's "Integrated Experience" requirement with a grade of "B" or higher. <a href="#">CHEM-ENG 401 satisfies the Integrated Experience</a></p>	

(a) Honors sections of first and sophomore-level Math, Physics, and Chemistry courses count.

(b) ANY Advanced Chemistry Elective at the 500-level or above, ANY Engineering Technical Elective at the 500-level or above, ANY Non-Engineering Technical Elective at the 500-level or above. If GSH requirement(s) and a MH or DH requirement(s) are met with (b) courses, different (b) courses are required.

The Advanced Scholarship Component (AS) <i>focuses on preparation for and completion of an honors thesis or project (Junior and Senior years)</i>		
<p><b>Multidisciplinary Honors (MH) - default option</b></p> <p>A <b>Multidisciplinary Honors (MH) program</b> is the best choice for students who wish to pursue honors work</p> <ul style="list-style-type: none"> <li>• Outside of their primary major or</li> <li>• Between two or more disciplines</li> </ul> <p>MH requires:</p> <ul style="list-style-type: none"> <li>• One any-level Honors Course (b), (d), or any honors course</li> <li>• One 300-level or higher Honors Course</li> <li>• Honors Thesis or Project (6 -or-more credits on one topic) (e) See: <a href="http://honorsapp.honors.umass.edu/courseguide/">http://honorsapp.honors.umass.edu/courseguide/</a></li> </ul> <p>See: <a href="http://www.honors.umass.edu/multidisciplinaryhonors">www.honors.umass.edu/multidisciplinaryhonors</a></p>	<p><b>O</b> <b>R</b></p>	<p><b>Departmental Honors (DH) - by request (c)</b></p> <p>This option is more common for <u>Chemical Engineering Students</u></p> <p>A <b>Departmental Honors (DH) program</b> is the best choice for students who wish to pursue</p> <ul style="list-style-type: none"> <li>• Advanced scholarship in their major</li> <li>• Graduate studies in their major or related field</li> <li>• A career related to their major</li> </ul> <p>DH tracks will meet or exceed these criteria*:</p> <ul style="list-style-type: none"> <li>• Two -or-more departmental honors courses; at least one at the 300-level or higher (b) or (d)</li> <li>• Departmental Honors Thesis <del>or Project</del> (6-or-more credits on one topic) (e) &amp; (f) Senior year register for CHEM-ENG 499Y &amp; 499T</li> </ul> <p>*View your department's specific DH requirements at: <a href="http://www.honors.umass.edu/departmentalhonors">www.honors.umass.edu/departmentalhonors</a></p>

(c) In the Junior Year declare "Departmental Honors" by e-mailing Prof. Schiffman (schiffman@ecs.umass.edu) the information below.

E-mail Subject: "First Name Last Name: Authorization for admission to DH"

Body of the E-mail: 1. Full name, 2. Spire ID, 3. Anticipated Graduation Year, 4. Professor whose lab you will be conducting Honors Research in.

(d) Common courses taken to satisfy ChemEng DH courses; at least one at the 300 level or higher.

CHEM-ENG 291H Sophomore Honors Colloquium (Seminar)      CHEM-ENG 578 Nanomaterials Chemistry and Engineering  
 CHEM-ENG 491H Senior Honors Colloquium (Seminar)      CHEM-ENG 590C Mechanical Behavior of Materials  
 CHEM-ENG 571 Physical and Chemical Processing of Materials      CHEM-ENG 597D Nanostructured Biomaterials  
 CHEM-ENG 575 Tissue Engineering      POLYMER 501 Introduction to Polymer Science and Engineering  
 CHEM-ENG 196ISH, 296ISH, OR 396ISH (You can take as many as you would like but only counts 1x as DH credits)

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(e) PLAN AHEAD! Prof. Schiffman will review and sign ISH and DH thesis forms *only after* they are completed by you with all other required signatures. Forms can be dropped off at N535 Life Science Laboratories. Forms and deadlines at: <https://www.honors.umass.edu/forms-and-documents>

(f) Arrange yourself to conduct computational or experimental independent research for a Professor. Contact faculty for availability, your research can be conducted in any UMass department related to Chemical Engineering (any engineering department, chemistry, physics, polymer science, food science, microbiology, etc).