

## Honors Program in Chemistry

The A.R. Smith Department of Chemistry offers an Honors Program in Chemistry. Admission to the honors program requires completion of CHE 1101 and CHE 1102 (Introductory Chemistry I and II), CHE 2201 (Organic Chemistry I) or CHE 2101 (Fundamentals of Organic Chemistry) and a minimum grade-point average, both overall and in the major, of 3.20. To graduate with "honors in chemistry," a student must have a minimum grade point average of 3.45, overall and in chemistry, and must take nine semester hours of chemistry honors credits with a "B" average or better. The required honors thesis in chemistry is a three-credit sequence that consists of one credit of CHE 4000 (chemistry Seminar with honors) and two credits of CHE 4510 (Chemistry Honors Thesis); the two credits for CHE 4510 must take place in two different semesters with one credit each semester. The chemistry honors thesis must be approved by two readers from the Department of Chemistry in order to graduate with honors in chemistry. Students may arrange to take specific chemistry courses on an honors basis, either as a 410 section or by negotiating an honors contract with the course instructor before class begins. The honors contract, which was developed by the department of chemistry honors committee, allows the student to receive honors credit for a regular course in chemistry by specifying the additional assignments that the student should perform in order to receive honors credit. The departmental honors committee must approve the honors contract.

Students who are already accepted into the Honors College may opt to do either both University and Chemistry Honors or just University Honors. The Chemistry Honors Director must be notified if you intend to do both. Students who are not a part of the Honors College and wish to do Chemistry Honors may apply for admission into the program by submitting a current resume; an essay outlining your career plans, goals, and research interests; and two letters of recommendation (one must be from a chemistry faculty member) to the Honors Program Director. Once accepted in the Chemistry Honors Program, students must complete the following:

- 1.) The student must complete a minimum of six hours of chemistry honors courses and three hours of chemistry honors thesis credit (which includes CHE 4000 (Chemistry seminar) with honors for one credit and CHE 4510 (Chemistry Honors Thesis) for two credit hours (usually in two semesters).
- 2.) The student must graduate with a minimum cumulative GPA of 3.45 and a GPA of 3.45 in chemistry courses.
- 3.) If an honors section (410) of a chemistry course at the 2000 level or above is not available, the student must complete a minimum of one chemistry honors contract in each academic year during participation in the program. A student will not be allowed to enroll in more than one chemistry honors contract per semester.
- 4.) The student is expected to attend all departmental seminars during any semester in which a chemistry honors contract has been established.
- 5.) The student must attend at least one off-campus professional chemistry meeting in each of his/her junior and senior years if possible.

- 6.) The student must make at least one formal presentation either on-campus or at an off-campus professional chemistry conference or symposium.
- 7.) The student must submit a senior research thesis to the Department of Chemistry Honors Committee and defend it prior to the completion of the Honors Program.

#### Required Honors Coursework

CHE 4000 with Honors – Students will complete both an oral and written proposal of research project during the course of the semester. It is strongly encouraged that you are already in a research lab the semester before you take CHE 4000.

CHE 4510 (2) – In the first semester of CHE 4510, students should focus on completing research, and focus on literature research and the completion of an introduction of their thesis. In the second semester of CHE 4510, students should be completing their research project and completing their honors thesis.

Honors Thesis Committee Make-up: A student completing both University and Chemistry Honors must have three readers to satisfy both requirements. The student will need two readers from within the Chemistry Department (Chemistry) and one reader from another department (University). A student completing just Chemistry Honors will need two readers from within the Chemistry Department.

Below is a typical four-year plan for Honors students in Chemistry. Note: This only contains coursework, including pre-requisites, that is required to stay on track for the thesis.

<b>Fall Semester</b>		<b>Spring Semester</b>
<b>Year 1</b>		<b>Year 1</b>
CHE 1101/1110 (4)		CHE 1102/1120 (4)
MAT 1110 (4)		MAT 1120 (4)
<b>Year 2</b>		<b>Year 2</b>
CHE 2201/2202 (4)		CHE 2202 (with Honors*)/2204 (4)
PHY 1150 (5)		PHY 1151
RC 2001		CHE 2210/2211
<b>Year 3</b>		<b>Year 3</b>
CHE 3301/3303 (4)		CHE 4000 with Honors (1)
CHE 3000		
***begin research here or earlier***		
<b>Year 4</b>		<b>Year 4</b>
CHE 4510 (1)		CHE 4510 (1)
CHE 4580 with Honors* (3)		

\*CHE 2202 and 4580 are typically offered with 410 sections. Other Chemistry courses are offered with 410 sections and contracts are available, so a student can choose other courses to get their six credits.