

Undergraduate Research Courses:

Independent Study 196, 296, 396, 496

Honors Independent Study 196ISH, 296ISH, 396ISH, 496ISH

Independent Research Project 388

Honors Capstone Experience 499

NOTE: Students must be up to date with Environmental, Health and Safety training to participate in laboratory research.

CHEM 196, 296, 396, 496 (1-6 credits). *Independent Study.* Does not satisfy the B.S. independent research project requirement. Experimental or theoretical study that may involve lab or library work or a combination. Work supervised by faculty sponsor who determines direction of project, nature of reports required, and grade and credit awarded. Completing the enrollment form (including one-page research proposal description), having it signed as appropriate, and presenting it to the Undergraduate Program Manager accomplishes enrollment. Guideline is 3-4 hrs work per week per 1 credit. **This course cannot substitute for CHEM 388 or CHEM 499.**

CHEM 196 (1-6 credits) First Year students

CHEM 296 (1-6 credits) Second Year students

CHEM 396 (1-6 credits) Third Year students

CHEM 496 (1-6 credits) Fourth Year students

CHEM 196ISH, 296ISH, 396ISH, 496ISH (1-6 credits). *Honors Independent Study for students enrolled in the Commonwealth Honors College.* Same logistical guidelines as above. Projects require frequent student/instructor contact and evidence of enrichment. Completing the enrollment form (including one-page research proposal description), having it signed as appropriate, and presenting to the Commonwealth College (copy to the department) accomplishes enrollment. Guideline is 3-4 hours of work per week per 1 credit. **This course cannot substitute for CHEM 388 or CHEM 499.**

CHEM 196ISH (1-6 credits) First Year Honors students

CHEM 296ISH (1-6 credits) Second Year Honors students

CHEM 396ISH (1-6 credits) Third Year Honors students

CHEM 496ISH (1-6 credits) Fourth Year Honors students

CHEM 388 (3 credits) *Independent Research Project.* Required of B.S. chemistry majors (B.A. chemistry majors may choose to take course as an elective, but it is not required.) Student chooses research advisor to sponsor research. Completing the enrollment form (including one-page research proposal description), having it signed as appropriate, and presenting it to the Undergraduate Program Director accomplishes

enrollment. A GRADED research report is to be completed at the end of the course and be on file within the chemistry department.

CHEM 499 (6 credits). *Honors Capstone Experience.* Required of B. S. students taking chemistry departmental honors within the Commonwealth College. (B.A. chemistry majors may choose to take course as an elective, but it is not required.) These course(s) satisfy the Capstone Experience requirement of the Commonwealth College. The Capstone Experience is usually taken over 2 semesters, but may be accomplished in one semester, if feasible. [Note: To fulfill the chemistry department research requirement students take CHEM 388 OR CHEM 499 – NOT BOTH]. Student chooses a research advisor and one other faculty member to serve on the research committee. Completing the enrollment form (including a research proposal description), having it signed as appropriate, and presenting it to the Commonwealth College (copy to the department) accomplishes enrollment. A research report is to be completed at the end of the course in accordance with Commonwealth College guidelines. The honors report will be archived in the Main Library.

Reviewed August 2015