

CHEMISTRY 199 - SPECIAL PROBLEMS
CHEMISTRY 299W - SPECIAL PROBLEMS AND REPORT WRITING
PROJECT INFORMATION SHEET

Chemistry 199 and 299W are variable credit courses offered on a Credit/No Credit basis designed to introduce freshman and sophomore students, with at least a 3.0 chemistry gpa, to chemistry research. **A maximum of 6 credits each of 199 and 299W can apply to degree credit requirements.** After a student has approval to register from a Faculty Supervisor, faculty add codes may be obtained in the Chemistry Advising Office, Bagley 303.

Professor	Field	Required Background	Type of Work Involved
B. Cossairt 404K CHB 543-4643 cossairt@chem.washington.edu	Inorganic and materials chemistry/nano-technology/synthesis	General chemistry and a strong interest in inorganic chemistry; minimum commitment of 3 quarters at 12 hours/week	Synthesis, reactivity studies and characterization (spectroscopy, electron microscopy, X-ray diffraction, electrochemistry) of inorganic molecules and materials
D. Ginger 213 BAG 685-2331 ginger@chem.washington.edu	Physical and materials chemistry/nanotechnology	Desire to learn by working hard; minimum time commitment is 20 hours per week for at least 4 continuous quarters	Will vary with background; nanoparticle synthesis and biofunctionalization, optical spectroscopy, atomic force microscopy, optoelectronic device fabrication and characterization
A. McCoy 482A BAG 543-7464 abmccoy@uw.edu	Physical/Computational/Theoretical	A solid background in general chemistry and a desire to work hard and learn.	Students will study chemical reactions using a variety of computational approaches. Many of the systems we study are important in atmospheric and astrochemistry.
P. Rathod 192 BAG 221-6069 rathod@chem.washington.edu	Biorganic, genomics, microbiology	A very strong academic record; dedication to develop research skills; initiative and creativity. Early Honors students with long-term research interests will get high preference	Malaria biochemistry, pharmacology, and genomics in the Seattle lab, and molecular support for malaria field-based studies in India.
A. Theberge 225 BAG 685-2330 abt1@uw.edu	Analytical/Biological Chemistry Biomedical Science & Engineering	Strong motivation, desire to do collaborative research; minimum time commitment of 15 hours/week for 6 quarters	Our group develops microfluidic technology to study a wide variety of disease pathologies, as well as human-microbe interactions. We apply basic chemistry and biology concepts to our fluidic technologies in an effort to simplify and model complex biological systems. Research includes engineering/fabrication, computer aided design, fluid mechanics, surface chemistry, cell culture, and metabolomics.
F. Turecek 218 BAG 685-2041 turecek@chem.washington.edu	Analytical/organic	Strong motivation; willing to work in lab 12 hours per week for three quarters; through organic chem and CHEM 321; physical chemistry helpful	Development of mass spectrometric techniques; organic and bioorganic structural analysis; chemistry of transient radicals; atmospheric radicals