CHM 400 Chemistry Seminar  
Wednesdays 1:15 – 2:15 P.M.  
Room 372 SEB

Instructor: John Seeley  
Office: 267 SEB  
Telephone: (248) 370-2329  
Office Hours: By appointment

Course Prefixes: CHM 400, Section 001 (CRN 10600)  
Credit Hours: 0

Course Objectives:  
On completion of this course you will be able to:  
• understand the process/conventions by which chemists transmit knowledge to peers 
• distinguish between well-presented and poorly-presented results of knowledge development in the chemistry discipline 
• feel comfortable participating in the question/answer discussions that follow the formal presentation portion of seminars 
• describe how scientific research is commonly conducted in an academic environment 
• learn the status of some leading edge work in chemistry

Two semesters of CHM 400, Chemistry Seminar, are required of all chemistry majors in order to graduate with a bachelor's degree in Chemistry. The course consists of weekly lectures by invited speakers mostly from outside Oakland University.

The grades for this course are “S” (satisfactory) or “U” (unsatisfactory). The basis for assigning a grade to a student will be attendance at the seminar sessions and turning in a “Presentation Summary” sheet for each seminar attended. Students who turn in less than 9 (nine) seminar summaries during the semester will receive a “U” grade.

Please Note: We are scheduled to have 12 seminars, so in principle you only need to attend 75% of the seminars, but we normally have one or two cancellations per semester. Thus, you should only skip a seminar when it is absolutely necessary and when you are certain that you will have ample opportunities to make it up.

Academic Conduct: Each student is expected to independently fill-out the "Summary" sheet during the presentation. The answers should reflect a reasonable impression of the presentation.

Note: This syllabus was written by Dagmar Cronn.
<table>
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<tr>
<th>January 10</th>
<th><strong>First Day of Class – No Seminar</strong></th>
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| January 17     | **Gavin E. Reid, Michigan State University**  
*Chemical Methods For Selective Proteome Analysis* |
| January 24     | **James A. Wisner, University of Western Ontario**  
*Rational Design of Hydrogen-Bonded Double Helices* |
| January 31     | **A. Daniel Jones, Michigan State University**  
*LC/Time-Of-Flight Mass Spectrometry: Multiplexed Metabolome Analyses For Functional Genomics And Chemical Ecology* |
| February 7     | **Zhongwu Guo, Wayne State University**  
*Synthesis Of Complex Glycoconjugates And Development Of Carbohydrate-Based Cancer Immunotherapies* |
| February 14    | **Arthur Suits, Wayne State University**  
*Lost In Configuration Space: High Resolution Imaging Studies Of Novel Reaction Mechanisms* |
| February 21    | **Curtis Wilkerson, Michigan State University**  
*Exploring The Utility Of Large-Scale Proteomics To Investigate Early Events In The Response Of Arabidopsis To The Plant Hormone Jasmonic Acid* |
| March 7        | **Dana Spence, Wayne State University**  
*Novel Roles For Red Cells And Platelets In Diabetic Complications* |
| March 14       | **Ferman Chavez, Oakland University**  
*Gaining Insights Into Metalloenzymes Through Biomimetic Studies* |
| March 21       | **Montserrat Rabago-Smith, Kettering University**  
*Vision And Rhodopsin: Design Of A Rhodopsin Surrogate* |
| March 28       | **Qiao Li, University of Michigan Medical Center**  
*Immunotherapy Of Cancer Using Adoptively Transferred T Cells* |
| April 4        | **Philip S. Stevens, Indiana University**  
*Oh Where, Oh Where Is OH? Measuring The Elusive Hydroxyl Radical In The Atmosphere* |
| April 11       | **Kevin D. Walker, Michigan State University**  
*Analysis Of The Potential Biocatalytic Function Of Enzymes Derived From Taxus Plants That Are Involved In The Biosynthesis Of Taxol* |
| April 18       | **No Seminar** |

More Information at [www2.oakland.edu/chemistry/chemsem.cfm](http://www2.oakland.edu/chemistry/chemsem.cfm)