		Thursday	Friday
Jan	**22**	**Finding an internship** **Resumes and Cover Letters, Pt I** *Hand in draft resume at the end of class*	Special seminars will occur on Fridays during common hour (12:30-1:20) in room 402.
	29	**Ethics Scenarios, Research Integrity** *Hand in suggestions to scenarios*	
Feb	**5**	**Resumes and Cover Letters Pt II** ***Bring polished resume and cover letter to class***	
	12	**Figure Making (Reader, Chemdraw, jmol, PowerPoint)** *Hand in exercise at the end of class*	
	19	**Citations –** Ted Gries ***Download Zotero onto to your computer or register Zotero to use on a lab computer***	
	26	**Presentations** 1) Megan M. 2) Emma 3) Lukeson 4) Michelle *Hand in question for each presentation at the end of class*	
March	**5**	**Presentations** 1) Trina 2) Meghan 3) Megan M. 4) Emma *Hand in question for each presentation at the end of class*	
	19	**Presentations** 1) Sam 2) Eden 3) Collin 4) Michelle *Hand in question for each presentation at the end of class*	**20** *Sarah Stariha '12* Non-PGM Membrane Electrode Assemblies for PEMFCs: Optimization for Performance
	26	**Presentations** 1) Meghan 2) Eden 3) Tom 4) Megan Y. *Hand in question for each presentation at the end of class*	
April	**2**	**Presentations** **Graduate School and Job Searching** 1) Emily 2) William	
	9	**Presentations** 1) Trina 2) Lukeson 3) Sam 4) Collin *Hand in question for each presentation at the end of class*	
	23	**Presentations** 1) Tom 2) Megan Y. 3) William 4) Emily *Hand in question for each presentation at the end of class*	
	30	**Excel Modeling** *Hand in exercise at the end of class*	

Chemistry 280/380/381: Chemistry Seminar (0.25 Units)

Th 12:00-12:50 SC 301

Prof. Kevin L. Braun
SC 419, braunk@beloit.edu
Office hours: by appointment

Course Outline

Chemistry seminar provides an opportunity to hear and discuss research not only in chemistry, but also, in biochemistry, health, the environment, and technology. The remainder of the course involves finding and applying to internships and post-college opportunities as well as some sessions devoted to computer-based tools. The class will consist of formal class presentations, in-class activities, and invited lectures.

Chem 380

Twice during the semester you will give a short presentation (7 minutes) providing **a brief overview of a recent literature paper that includes the subject of the study, a detailed description of the techniques and instrumentation utilized, and a concise summary of the results**. This type of presentation is something most research groups do. Your presentation should primarily include **a focused discussion on a key figure** from the paper that assists the class in better understanding the research. By Friday before your assigned date, submit the abstract link of a paper from the recent literature that you would like to discuss. Journals that are available through the college can be found on the Chemistry department website. If you are not sure what subdiscipline interests you most, the Journal of the American Chemical Society is a good place to start looking. If more than one person picks the same paper, the first submitter gets it. Links to the requested papers will be emailed to the class. In preparing your presentation, you can assume that your audience is taking organic chemistry.

For your second talk, you should select a paper that is related to your first paper. It could be about another paper from the same authors or perhaps from a competing group. Your second talk should draw connections between the two papers. You can assume that your audience heard your first talk.

Chem 280, Chem 380, and Chem 381

The interactive nature of this course requires a willingness to participate and communicate in class. Doing science today is usually a social process, which is certainly part of what attracts many to it for a career. Practicing scientists usually have a network of colleagues they call upon when they have questions and one goal of this course is to develop your ability to ask questions. **For those not presenting, hand in a question or point of discussion for every presentation** (usually four each week). Links to the papers being presented that week will be emailed to you. You should plan to read all the papers in preparation for the presentations.

When we are working on tools there will be a **worksheet** or something else to hand in at the end of class. See individual dates below. To receive credit for the course, all assignments must be completed.

Chem 381

If you are registered for Chem 381 (requires previous completion of a non-credit research project of at least 6 weeks full-time duration and junior or senior standing), your second talk will be based on your research project. To prepare the class for your research talk, you should choose a previous paper on the same topic for your first presentation. After your talk, please download and complete the LAP requirement paperwork from the Registrar's office so I can sign it (http://www.beloit.edu/registrar/lap/).

Student Evaluation

The course is graded as credit/no credit and will be based on preparation, participation in class discussions and activities, and attendance. *An unexcused absence will result in a grade of no credit.*

If you have a disability and need accommodations, contact the Learning Enrichment and Disability Services Office located on 2nd floor Pearsons (north side) or call x: 2572 or email learning@beloit.edu. For accommodations in my class, you must bring me an Accommodation Verification Letter from the Director of that office and then we will discuss how to meet your needs. Contact that office promptly; accommodations are not retroactive.