

Minutes of Departmental Committee Meeting

1:30 Tuesday, September 12, 2017, Room 9341

Professors Berry, Bertram, Blackwell, Brunold, Buller, Burke, Burstyn, Ediger, Fredrickson, Garand, Gellman, Hamers, Hermans, Jin, Moore, Nathanson, Record, Shakhashiri, Sibert, Smith, Stahl, Weisshaar, Wright, Yoon attending.

Ariel Andrea, Cheri Barta, Arrietta Clauss, Pam Doolittle, Libby Dowdall, Tracy Drier, Kayla Driscoll, Bob Duessler, Pat Egan, Bruce Goldade, Ilia Guzei, Jeanne Hamers, Kristi Heming, Paul Hooker, Char Horsfall, Paul McGuire, Steve Myers, Jeff Nielsen, Vanessa Orr, Marshall Padilla, Matt Sanders, Cara Schwartz, Bob Shanks, Cheri Stephens, Cecilia Stodd, Marc Willadsen, Jia Zhou also attended.

Open Session

Minutes of the last meeting (05/09/17) were approved on a voice vote.

Announcements and Reports

Safety Update

Ive Hermans presented to the Department. Jeff Nielsen was present when there was a fire alarm early one Sunday morning, and he and the Fire Department witnessed students returning to the building before the alarms had ceased. DO NOT RE-ENTER THE BUILDING UNTIL YOU KNOW IT IS SAFE.

There have been 11 safety incidents since July, 10 in the last week alone. A number of these occurred in our TA-led undergraduate labs. We should all stress safety when we return to our groups.

When a safety incident occurs, we should not ever assume “there was nothing that could have been done to prevent it.” There is always something that could have been done better. We will be following up incidents with anonymized reports to the Department of what happened, and what might have been done to prevent each occurrence.

Don't work alone, ever.

Incident reports must be filled out promptly following a safety incident. Immediately is best, but certainly within 24 hours. We will find a way to make sure that Incident Reports are emailed to supervisors in a timely way.

Staffing Introductions

Kyle Acevedo is a new Outreach Specialist with the Shakhashiri group. Andrew Buller is our new Assistant Professor. Cara Jenkins is a Program Specialist working with Helen Blackwell and the CBI Traineeship program.

Libby Dowdall was the first staff member to be featured at the monthly meeting, introducing herself and talking about her role in the Department. Libby will leave at the end of September for a new job at Washington University in St. Louis.

Eric Hamilton, University Relations Specialist

With Libby's departure, we need to have someone we can go to with news stories. Eric Hamilton has a Chemistry BS and a PhD in Plant Pathology, and has been at University Communications for 6 months. Eric introduced himself and left a number of his cards, in case we should need to discuss any stories with him.

Awards

Judith Burstyn announced that Bassam Shakhashiri would receive the Grady-Stack Award for Interpreting Chemistry to the Public.

She also reminded the Department to let her know if you receive an award.

Administrative Update

Pat Egan announced that effort for Grad Students has been reviewed, and Tim Kachel is working on PI effort.

If you have employees who use Aestiva, make sure they do the training. Next training is Wednesday, September 20 at 10 AM in Room 1381.

There is a new Performance Management system for the University. It will take place all on-line. Training will begin soon for employees and supervisors.

Faculty Recruiting

Judith Burstyn reported that we will be allowed to search for two positions, and that Sam Gellman has agreed to chair the Faculty Recruiting Committee.

Graduate Student Mental Health Follow-Up

Marshall Padilla (Mecozzi group) reported for the GSFLC. A recent article addressed mental health issues in graduate students in a similar way to the GSFLC mental health survey done in late 2016. They asked twelve questions about mental health. 51% of their respondents had two or more "positive" answers, 40% had 3, and 32% had 4 or more. This indicates a significant need to address mental health concerns among the graduate population. The Department has done a lot, but more remains to be done.

Public Access Publication Policies

Ariel Andrea and Cecilia Stodd explained the Public Access Rule. NIH has for a number of years been demanding that publications be available on Public Access sites. Now, NSF, DOD and DOE will all have public access databases. SMPH and the VCRGE have developed a website called BuckySubmit, at http://ebling.library.wisc.edu/services/public_access/index.html, for submission of your documents. Submitting papers published under NSF sponsorship does not work well at BuckySubmit. They can be submitted under the NSF-PAR submission process. The PI must do the submission.

Public submission applies to papers resulting from awards made or with application dates after January 25, 2016.

Campus Leadership Meetings

Judith Burstyn reported on her recent meetings. There is a campus-wide push to be more entrepreneurial to bring in more resources, and incentives to increase revenues. Many universities outside UW-Madison have been using increased out-of-state admissions to increase tuition revenue; UW is now joining that push. Rather than having a percentage of students who must be in-state, the Chancellor has negotiated a minimum number of in-state students who will be admitted each year, 3600. The UW is then free to admit more out-of-state and international students.

Future Enrollment Expansion

Judith Burstyn reported. To accomplish the increased enrollments/increased revenues described in the previous item, the University will admit 300 more students each year for the next 4 years. The College has been teaching 60% of the credit hours while receiving only 40% of the total budget. This promises to change for the enrollment increases, so the College will receive 60% of the new income. A significant fraction of this should come to Chemistry.

Report on the Building Project

John Moore reported that it has become clear that we need every floor to be completed if we are to meet the demands of the University's new enrollment projections. This includes the research floor to house new faculty. The University has committed to funding this.

Report on the Climate Task Force

Judith Burstyn reported that the task force last met in July.

One of her first approvals as Chair was to use the space vacated by Pam Doolittle and the Analytical TAs as the new graduate student lounge.

The UHS "Office Hours" program will continue this semester.

Upcoming Events

CHOPs will be held September 14-16, with poster session at 4 PM Friday the 15th in the Shain Atrium.

Board of Advisers meets Friday, September 15.

The Snout-Out is Saturday, September 23 at Rennebohm Park.

The UW System Chemistry Faculties Meeting hosted by UW-Milwaukee is September 29-30. Ned Sibert will attend.

Business

Changes to the Chemistry Major

Jeanne Hamers explained the issues. We passed these changes at our meeting in April, but the L&S Curriculum Committee did not approve them. The objections are mostly minor, but we now need to approve changes that will allow us to be consistent with policy and practice on campus.

A pdf description of the changes accompanies these notes. **The motion from the Undergraduate Curriculum Committee was approved on a voice vote with no negatives.**

With no additional business brought to the Department Committee, the meeting was adjourned after a motion from Mark Ediger and John Berry.

September 28, 2017. MJS

	2015-2017 Catalog	2017-2018 Guide (now published)	2018-2019 Guide - Proposed Verbiage or Requirement
1. Declaring the Chemistry Major	<i>Any student who is interested in majoring in chemistry should consult with the chemistry major advisor in the Undergraduate Chemistry Office, room 1328 Chemistry Building.</i>	<p>Students who are interested in the chemistry major are encouraged to declare the major no later than the end of their sophomore year. There are many advantages to declaring the chemistry major early, including access to chemistry advising, access to scholarships only available to chemistry majors, and access to announcements for chemistry majors. Students who have declared the major become a part of our chemistry community, enabling them to better connect with faculty, staff and other chemistry majors.</p> <p>Students who meet the recommendations for declaring the major are invited to schedule an appointment with the undergraduate chemistry advisor to develop a four-year plan and to declare.</p>	<p>Students may declare the chemistry major after they have completed General Chemistry (CHEM 104, CHEM 109, or CHEM 116). Transfer students may declare in their first semester at UW-Madison, if they have transfer credit for one of these courses. Students should schedule an appointment with the undergraduate chemistry advisor to declare and develop a course plan towards graduation. To better inform their decision, undecided students exploring chemistry along with other majors are encouraged to take an additional chemistry course or two beyond General Chemistry before declaring. Any student interested in chemistry is welcome to schedule an appointment with the advisor to further explore the major.</p> <p>Students are advised to declare the major no later than the end of their sophomore year. There are many advantages to declaring early, including access to chemistry advising, access to scholarships only available to chemistry majors, and access to announcements for chemistry majors. Students who have declared the chemistry major become a part of our chemistry community, enabling them to better connect with faculty, staff, and other chemistry majors.</p>
2. Courses accepted towards 5 credits of advanced chemistry	<i>F. Additional coursework (5 cr) Chosen from any 500–600 level course in chemistry, biochemistry, and/or environmental chemistry and technology. Some 500- to 600-level courses in chemical engineering count for this requirement. The extra credits associated with 116 and 565 count toward the 5 credits.</i>	<p>Advanced Non-laboratory Coursework (5 credits) non-lab CHEM 500–680; non-lab BIOCHEM 500-680⁵</p> <p>⁵ One credit from each of CHEM 116 and CHEM 565 count toward the 5 credits. Only 2 of the 3 credits from CHEM 524 count. The other credit from CHEM 524 counts toward the additional laboratory work. Some courses from other departments may be chosen as well, including CHEM/M S & E 421, CBE 440, CBE 540, and CBE 547.</p>	<p>Advanced Non-laboratory Coursework (5 credits) Non-laboratory courses CHEM 500-680, except CHEM 561-567* BIOCHEM 500-680 MS&E/CHEM 421 CBE 440 Chemical Engineering Materials CBE 540 Polymer Science and Technology CBE 547 Introduction to Colloid and Interface Science</p> <p>*One credit from each of CHEM 116 and CHEM 565 count toward the 5 credits. Only 2 credits of the 3 credits from CHEM 524 count. The other credit from CHEM 524 counts toward the additional laboratory work.</p>

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3. Courses accepted towards three additional laboratory credits	<p>G. Additional laboratory work (3 cr) Chosen from the following Chemistry labs: 346, any 500 level laboratory, 691–692, and/or 699.</p> <p>Note: 2 cr of Chem 524 count for requirement F and 1 credit for requirement G. Physical Chemistry Laboratory 563 and 564 do not count for requirement G.</p>	<p>Additional Laboratory Work Additional Laboratory Work (3 credits) CHEM 346 Intermediate Organic Chemistry Laboratory CHEM 524 Chemical Instrumentation⁶ CHEM 691/692 Senior Thesis CHEM 699 Directed Study BMOLCHEM 504 Human Biochemistry Laboratory⁷</p> <p>⁶Only 1 of the 3 credits from CHEM 524 counts for additional laboratory work requirements. The other 2 credits count toward the advanced non-laboratory course work.</p> <p>⁷BMOLCHEM 504 does not count for students who are also majoring in biochemistry. Nor will it count for students who are using this course to satisfy requirements for another major.</p>	<p>Additional Laboratory Work (3 credits) CHEM 346 Intermediate Organic Chemistry Laboratory CHEM 524 Chemical Instrumentation* CHEM 681/682 Senior Honors Thesis CHEM 691/692 Senior Thesis CHEM 699 Directed Study BIOCHEM 681/682 Senior Honors Thesis BIOCHEM 691/692 Senior Thesis BIOCHEM 699 Special Problems CBE 599 Special Problems BMOLCHEM 504 Human Biochemistry Laboratory**</p> <p>*Only 1 of the 3 credits from CHEM 524 counts for additional laboratory work requirements. The other 2 credits count toward the advanced non-laboratory course work.</p> <p>**BMOLCHEM 504 is not recommended for students who are also majoring in biochemistry, because it overlaps significantly with required biochemistry course work.</p>
4. GPA in the major	<p>2.000 GPA in all major courses.</p> <p><u>NOTE:</u> This calculation in DARS currently includes all courses with the CHEM subject prefix and a few with the BIOCHEM prefix.</p>	2.000 GPA in all CHEM and major courses	2.000 GPA in all CHEM courses and all courses accepted for the major.

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5. Upper level work and GPA requirement	<p>All students are required to fulfill the L&S requirement of at least 15 credits of upper-level work in the major completed in residence. Chem 346, all courses with numbers greater than 500 in chemistry, as well as Biochemistry 501, 507 and 508, count toward this requirement. Other advanced level courses in departments outside of chemistry may also count in this area.</p> <p>Note: While not stated on Chemistry pages of Catalog, students must have at least a 2.000 GPA in upper level courses in the major. Until very recently, DARS was coded (for many years) to include CHEM 343, 345, 344, and 311 as upper level courses.</p>	<p>2.000 GPA on at least 15 credits of upper-level work in the major⁸</p> <p>⁸Upper-level work in the major includes: CHEM 346, CHEM/M S & E 421, CHEM 500-699, BIOCHEM 501, BIOCHEM 507, BIOCHEM 508, CBE 310, CBE 440, CBE 540, CBE 599.</p>	<p>2.000 GPA in upper-level work in the major and at least 15 credits of upper-level work in the major in residence. Upper-level work includes CHEM 346, MS&E/CHEM 421, CHEM 500-699, BIOCHEM 500-699, BMOLCHEM 504, CBE 310, CBE 440, CBE 540, CBE 547, CBE 599, and MS&E 330.</p>
6. Honors in the Major GPA requirement	<p>Candidates for honors in the major are required to ... maintain a 3.3 overall GPA in all their chemistry course.</p> <p><u>NOTE:</u> Calculation currently includes only courses with the CHEM subject prefix.</p>	<p>Earn a 3.300 GPA for all CHEM courses</p>	<p>3.300 GPA in all CHEM courses and all courses accepted for the major.</p>
7. Physical Chemistry Part 1	<p>CHEM 561 or CHEM 565</p>	<p>Physical Chemistry Part 1 (1 course) CHEM 561 Physical Chemistry CHEM 565 Biophysical Chemistry CBE 310 Chemical Process Thermodynamics</p>	<p>Physical Chemistry Part 1 (1 course) CHEM 561 Physical Chemistry CHEM 565 Biophysical Chemistry CBE 310 Chemical Process Thermodynamics* MS&E 330 Thermodynamics of Materials**</p> <p>*CBE 310 is recommended only for students who are also majoring in Chemical and Biological Engineering. **MS&E 330 is recommended only for students who are also majoring in Materials Science and Engineering.</p>

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8. Analytical Chemistry	<p>B. Analytical Chemistry Chem 329 (4 cr) or 116 (5 cr)*</p> <p>*Students who declare the chemistry major after taking Chem 327 may count Chem 327 toward the major instead of Chem 329.</p>	<p>Analytical Chemistry (1 course) CHEM 327 Fundamentals of Analytical Science CHEM 329 Fundamentals of Analytical Science CHEM 116 Chemical Principles II</p>	<p>Analytical Chemistry (1 course) CHEM 329 Fundamentals of Analytical Science CHEM 116 Chemical Principles II CHEM 327 Fundamentals of Analytical Science*</p> <p>*Chemistry majors are strongly encouraged to take CHEM 329 or CHEM 116 instead of CHEM 327.</p>