

**ICC Agenda for Tuesday September 11, 2012**  
**NHE 106**  
**10:00**

**1. Approval of Minutes**

Minutes Takers: ~~Abell~~, Ayala, ~~Baker~~, ~~Berman~~, ~~Bliven~~, ~~Burges~~, Harmon, ~~Harrington~~, Marschke, ~~Moyer~~, Nuhfer, ~~Paulet~~, ~~Paynton~~, Rebik, Schwab, Swartz, Zechman

**2. Consent Calendar**

**12-006: EMP 420: Ecosystem Analysis** Change pre-requisite from BIOL 330 to “BIOL 330 or WLDF 301” because students in the Environmental and Natural Resources Planing option are required to take either BIOL 330 or WLDF 301. This change makes the course pre-requisites consistent with the degree requirements.

**12-010: PSCI 210: Introduction to US Politics** add registration restriction so that only Political Science majors may register for the course without a Permission number.

**3. CDC Curriculum Proposals**

**11-319 through 11-333 Restructuring Chemistry Curriculum**

Chemistry is reducing the number of topics and changing the order in which these topics are presented in CHEM 109 and CHEM 110. Moving topics out of this sequence requires significant changes to other chemistry classes including a new course and the reactivation of other courses. The table at the end of this summary shows the proposed realignment of topics. This realignment is designed to:

1. Allow for articulation with standard chemistry curriculum at other institutions. Previously, the very broad range of topics in CHEM 109 prevented articulation with courses from other institutions.
2. Improve student comprehension, student success rate and first to second year retention. By removing some topics from CHEM 109 more time will be available for students to master core concepts and for increased use of time intensive modern pedagogical tools to be used.
3. The revised curriculum will be better aligned with the recommendations of the American Chemical Society (the accrediting body for chemistry)

The departments that are effected have been contacted and have agreed to these changes.

**Impacts on other departments:**

Small to no impact for programs which require both CHEM 109 and CHEM 110. Topics removed from sequence are not traditional in introductory sequence and those who might object (GEOLOGY) are OK with the change.

Programs that require CHEM 109 or (CHEM 109 or CHEM 107) will need to change their program requirements to insure their students are getting the proper chemistry background for their discipline. This change may require additional units. However, the effected programs have been contacted and have agreed to make the needed changes.

Courses with CHEM 109 as a prerequisite will need to either change to CHEM 110 as a prerequisite or as a corequisite.

Math 214 (linear algebra) no longer required for chemistry majors

**Impacts on chemistry department:**

Total units for Chemistry major will change from 113 to 120.

Total units for Chemistry major with biochemistry option will change from 124 to 122.

A course is proposed. CHEM 310 Inorganic Chemistry will be offered alternate years and will absorb many of the topics removed from CHEM 109/110 and is essential to maintain accreditation

CHEM 360 will be replaced by the reactivated courses CHEM 361, CHEM 362, CHEM 363. Courses will be offered alternate year.

The following proposals are part of this package of changes

OAA#11-319 CHEM 109 Description change

OAA#11-320 CHEM 110 Description change

OAA#11-322 CHEM 328 Brief Organic Chemistry – prerequisite change

OAA#11-327 CHEM 370 Earth System Chemistry – prerequisite change

OAA#11-323 CHEM 360 Fundamental Physical Chemistry -- suspend

OAA#11-321 CHEM 310 Inorganic Chemistry I -- New course proposal

OAA#11-324 CHEM 361 Physical Chemistry--reactivate and change mode

OAA#11-325 CHEM 362 Physical Chemistry II -- reactivate and change mode

OAA#11-326 CHEM 363 Physical Chemistry II Lab – title change

This group of proposals replaces the current CHEM 360 (5 units) with the classes CHEM 361 (3 units), CHEM 362 (3 units) and the lab CHEM 363 (2 units). CHEM 363 is required for chemistry BS and BA majors but not for a chemistry BS with the biochemistry option. The sequence will be offered alternate years.

OAA#11-328 CHEM 410 Inorganic Chemistry II – title change

OAA#11-329 CHEM 410L Inorganic Chemistry II Lab --New course proposal

The current version of CHEM 410 (5 units) is being split into CHEM 410(3 units) and CHEM 410L (2 units). This sequence will be offered alternate years.

OAA#11-330 Chemistry minor program change

OAA#11-331 Chemistry BA program change

OAA#11-332 Chemistry BS Biochemistry option program change (\*need new catalog copy\*)

OAA#11-333 Chemistry BS Program change

This table is taken from Bob Zoellner's document giving the details of chemistry's curriculum restructuring proposal.

Table I: Course Content of CHEM 109/110							
Changes	Book Chapter/Content	Current		Articulation			
		109	110	109	110	310	410
	1) Chemical Foundations	X		X			
	2) Atoms, Molecules, and Ions	X		X			
	3) Stoichiometry	X		X			
	4) Chemical Reactions, Solution Stoichiometry	X		X			
	5) Gases	X		X			
	6) Thermochemistry	X		X			
	7) Atomic Structure and Periodicity	X		X			
	8) Bonding: General Concepts	X		X			
*	9) Covalent Bonding: Orbitals		X	X			
	10) Liquids and Solids						
	liquid state/types of solids/vapor pressure	X		X			
*	phase diagrams/metals		X				X
	11) Properties of Solutions	X		X			

*	12) Chemical Kinetics	X	X	
*	13) Chemical Equilibrium	X	X	
*	14) Acids and Bases	X	X	
*	15) Acid-Base Equilibria	X	X	
	16) Solubility and Complex Ion Equilibria		X	X
	17) Spontaneity, Entropy, and Free Energy		X	X
	18) Electrochemistry		X	X
*	19) The Nucleus: A Chemist's View	X		X
*	20) The Representative Elements	X		X
*	21) Transition Metals, Coordination Chemistry	X		X

Much greater detail is available in the document provide by Bob Zoellner "Restructuring the Chemistry Curriculum" which is included with the proposal OAA#11-333 Chemistry BS core PROG CHNG.

**Recommend Approve All / Wes**

OAA#11-400 and OAA#11-401 Wildlife BS option 1 -- program change form

Change CHEM 109 or CHEM 107 to CHEM 107

OAA#11-401 and OAA#11-401 Wildlife BS option 2 -- program change form

Change CHEM 109 to CHEM 107 (reduces number of units by 1)

Both changes are the result of the changes to the chemistry curriculum. Wildlife would prefer breadth of coverage in CHEM 107.

**Recommend Approve All / Wes**

**11-224, 11-225, 11-226 Environmental Management and Protection (EMP)—Course Changes**

Add FISH 260: Fish Conservation & Management to the list of restricted electives for three options in EMP (Environmental and Natural Resources Planning, Environmental and Natural Resources Recreation, and Environmental Education and Interpretation). FISH 260 is an appropriate addition to the current list of natural resources management courses from which EMP students may choose. The addition will not increase units to the major. Fisheries has also confirmed that it is ready to meet the increased demand in FISH 260 that this change may bring about.

RECOMMENDATION: Approve (Jeff)

**11-372 & 11-373: History – new course & associated program change**

**11-372 History Major Program Change** – Add Imperialism (HIST 345) to list of options for students in European History path. Students take at least 4 units in each of three pathways, with minimum of 24 units in pathways.

- Catalog currently lists 14 courses within European History Pathway.
- Department intends to eliminate (suspend/delete?) HIST 344 -19th Century Europe
- HIST 352 – Tudor Stuart England - Not offered; (suspend/delete?)
- Most courses offered on 2-3 year rotation
- Only one European History specialist as permanent faculty (Marchke)
- Department has offered 1-3 European Pathway courses a semester over last two years, including Imperialism as a Special Topic F'11 (HIST 392.)
- Adding course to the mix will allow an additional permanent faculty member (Paulet) to teach within European History Pathway

**11-373 HIST 345 : Imperialism-- New Course Proposal -DCG non-domestic.** To be offered every other year. Taught as special topic fall 2011.

RECOMMENDATION: Approve (Brandon)

**11-232 Environmental Science – Energy & Climate Program Change**

Drop CHEM 109 from requirement of CHEM 107 or 109. Chemistry department recommends this change as a result of redesign of CHEM 109/110 courses. CHEM 109 no longer appropriate.

Upper division requirements that have Chemistry prerequisite: ENVS 330; ENGR 370; CHEM 370; OCN 420; WSHD 458 – All require *either* Chem 107 or Chem 109, so no changes are necessary.

RECOMMENDATION: Approve (Brandon) [Was put on hold for Chem curriculum changes, but EMP would like the change regardless.]

**11-254 HED 231 – Basic Human Nutrition – Course Change**

Delete CHEM 107 or IA prerequisites. Change recommended preparation of CHEM 107 or IA to “Chemistry Recommended.” CHEM prereq was listed for Nursing students who needed to take a chemistry course.

RECOMMENDATION: Approve (Brandon)

**10-113 ART 104M Latin American Art—course change form**

Department would like to change the description which previously emphasized the modern era to a description which starts with 1500BCE to present. This description more accurately reflects the course as taught (department provided syllabus).

RECOMMEND: Approve (Anne)

**10-117 Art Education Program Change form**

To meet the new standards of the subject waiver, Art Education is adjusting its curriculum by removing Beginning Jewelry and Intermediate Drawing and replacing them with Beginning Digital Photography and Beginning Graphic Design. There is no change in units.

RECOMMEND: Approve (Anne)

**4. APC:**

**Distance Education**

**Major/Minor combos – more discussion**

**5. Schedule ICC meeting “on-mode”?**

Tuesday/Thurs. 8:00, 10:00, 12:00, 2:00

Thurs 4:00? Match Senate time?

**6. GEAR – report**

**Next week: Subcommittees**