Undergraduate Academic Board
Agenda

October 25, 2013
2:00-5:00
ADM 204

I. Roll

( ) Alberta Harder (FS)
( ) Soren Orley (FS)
( ) Francisco Miranda (CAS, Chair)
( ) Barbara Harville (CAS)
( ) Mari Ippolito (CAS)
( ) Len Smiley (CAS)
( ) Dave Fitzgerald (CBPP)
( ) Eileen Weatherby (COH)
( ) Irasema Ortega (COE)
( ) Jeffrey Callahan (CTC)
( ) Utpal Dutta (SOE)
( ) Kevin Keating (LIB)
( ) Michael Hawfield (KPC)
( ) Sheri Denison (Mat-su)
( ) Kathrynn Hollis Buchanan (Kod)
( ) Christina Stuive (ADV)

Ex-Officio Members
( ) Susan Kalina
( ) Lora Volden
( ) Michael Worth

II. Approval of the Agenda (pg.1)

III. Approval of Meeting Summary (pg. 2)

IV. Administrative Report

A. Vice Provost for Undergraduate Academic Affairs Susan Kalina

B. University Registrar Lora Volden

V. Chair's Report

A. UAB Chair- Francisco Miranda

B. GERC

VI. Program/Course Action Request- Second Readings

Chg BS, Chemistry (pg. 3-14)

VII. Program/Course Action Request- First Readings

VIII. Old Business

IX. New Business

A. Delete Course TECH 422 – Bachelor of Science, Technology (pg. 15)
B. Federal Compliance Regulations related to Grading and Attendance (pg. 16)

X. Informational Items and Adjournment

Undergraduate Academic Board
Summary

October 18, 2013
2:00-5:00
ADM 204

I. Roll

(x) Alberta Harder (FS)
(x) Soren Orley (FS)
(x) Francisco Miranda (CAS, Chair)
(x) Barbara Harville (CAS)
(x) Mari Ippolito (CAS)
(x) Len Smiley (CAS)
(x) Dave Fitzgerald (CBPP)
(x) Eileen Weatherby (COH)
(e) Irasema Ortega (COE)
(x) Jeffrey Callahan (CTC)
(x) Utpal Dutta (SOE)
(x) Kevin Keating (LIB)
(x) Michael Hawfield (KPC)
(x) Sheri Denison (Mat-su)
(e) Kathrynn Hollis Buchanan(Kod)
(x) Christina Stuive (ADV)

Ex-Officio Members
(x) Susan Kalina
( ) Lora Volden
(x) Michael Worth

II. Approval of the Agenda (pg.1-2)
Approved

III. Approval of Meeting Summary (pg. 3-4)
Approved

IV. Administrative Report

A. Vice Provost for Undergraduate Academic Affairs Susan Kalina
NWCCU site visit is scheduled for Monday, October 21st; visit will focus on the Psychology doctoral program

B. University Registrar Lora Volden
No Report

V. Chair's Report

A. UAB Chair- Francisco Miranda

B. GERC
Approved MUS/AKNS A216 with a change of title

VI. Program/Course Action Request- Second Readings

Add	MUS A216	World Indigenous Music (GER) (Cross Listed with AKNS A216) (3 cr)(3+0)(pg. 5-8)

Unanimously Approved

Add	AKNS A216	World Indigenous Music (GER) (Cross Listed with MUS A216) (3 cr)(3+0)(pg. 9-12)

Unanimously Approved

Chg	CHEM A411	Biophysical Chemistry (Stacked with CHEM A611) (3 cr)(3+0)(pg. 13-22)
Chg	CHEM A450	Environmental Chemistry (Stacked with (CHEM A650)(3 cr)(3+0)(pg. 23-33)
Chg	CHEM A477	Bioanalytical Chemistry (Stacked with CHEM A677)(3 cr)(3+6)(pg. 34-44)
Add	CHEM A480	Nuclear Magnetic Resonance (stacked with CHEM A680)(3 cr)(3+0)(pg. 45-53)
Add	CHEM A490	Selected Lecture Topics in Chemistry (Stacked with CHEM A690) (1-3 cr)(1-3+0)(pg. 54-63)
Add	CHEM A495	Chemistry Internship (3 cr)(0+9)(pg. 64-68)

All CHEM courses are unanimously approved

VII. Program/Course Action Request- First Readings

Chg BS, Chemistry (pg. 69-80)
Accepted for first reading

Chg ART A270 Beginning Alaska Native Art (Stacked with ART A370/A470) (3 cr)(0+6)9pg. 81-85)
Waive first reading, approve for second

Chg ART A370 Intermediate Alaska Native Art (Stacked with ART A270/A470) (3 cr)(0+6)9pg. 86-91)
Waive first reading, approve for second

Chg ART A470 Advanced Alaska Native Art (Stacked with ART A270/A370) (3 cr)(0+6)9pg. 92-97)
Waive first reading, approve for second

VIII. Old Business

IX. New Business

X. Informational Items and Adjournment

Program/Prefix Action Request
University of Alaska Anchorage
Proposal to Initiate, Add, Change, or Delete a Program of Study or Prefix

1a. School or College	1b. Department
AS CAS	Chemistry

2. Complete Program Title/Prefix
Bachelor of Science, Chemistry

3. Type of Program

Choose one from the appropriate drop down menu: Undergraduate: Bachelor of Science or Graduate: CHOOSE ONE

This program is a Gainful Employment Program: ☐ Yes or ☒ No

4. Type of Action:

PROGRAM	PREFIX
☐ Add	☐ Add
☒ Change	☐ Change
☐ Delete	☐ Inactivate

5. Implementation Date (semester/year)
From: Spring/2014 To: 99/9999

6a. Coordination with Affected Units Department, School, or College: Math, Biological Sciences, Physics

Initiator Name (typed): Eric Holmberg Initiator Signed Initials: _____
Date:_____

6b. Coordination Email submitted to Faculty Listserv (uaa-faculty@lists.uaa.alaska.edu) Date: 12/20/2012

6c. Coordination with Library Liaison Date: _____

7. Title and Program Description - Please attach the following:

☒ Cover Memo ☒ Catalog Copy in Word using the track changes function

8. Justification for Action
Updating the requirements for the BS in Chemistry/Biochem option to reflect the skill set required in a graduate or work environment.

Initiator (faculty only) Date		☐ Approved ☐ Disapproved Dean/Director of School/College	Date
Initiator (TYPE NAME)			
☐ Approved ☐ Disapproved Department Chair	Date	☐ Approved ☐ Disapproved Undergraduate/Graduate Academic Board Chair	Date
☐ Approved ☐ Disapproved College/School Curriculum Committee Chair	Date	☐ Approved ☐ Disapproved Provost or Designee	Date

1. A total of 122-125 credits is required for the degree, 42 credits of which must be upper division.

Bachelor of Science, Natural Sciences

The Department of Biological Sciences also oversees the Bachelor of Science in Natural Sciences. This curriculum emphasizes the interrelationships among the sciences. A program of study in the Natural Sciences requires that students select an option within the degree, and complete all courses required within the option, as well as sufficient science elective courses to meet minimum unit requirements for graduation. Students accepted into this flexible degree program select one of three options: the General Sciences Option is designed for students who are interested in understanding the interrelationships among various scientific fields, or in teaching science at the secondary level. The Pre-Health Professions Option is designed to meet the admission requirements of specific professional schools in medicine, dentistry, and veterinary medicine. The Environmental Sciences Option is designed to prepare students for graduate school or for employment in the private or public sector.

For a complete program description see the Natural Sciences section of this chapter.

Minor, Biological Sciences

Students majoring in another subject who wish to minor in Biological Sciences must complete the following requirements. A total of 28 credits is required for the minor, 12 of which must be upper division.

BIOL A115	Fundamentals of Biology I	4
BIOL A116	Fundamentals of Biology II	4
BIOL A242	Fundamentals of Cell Biology	4
BIOL A252	Principles of Genetics	4
Upper division Biological Sciences electives		12

FACULTY

Lilian Alessa, Professor, lalessa@uaa.alaska.edu
Eric Bortz, Assistant Professor
Loren Buck, Professor, clbuck@uaa.alaska.edu
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Frank von Hippel, Professor, favonhippel@uaa.alaska.edu

CHEMISTRY

ConocoPhillips Integrated Sciences Building (CPSB), Room 101Q, (907) 786-1238
www.uaa.alaska.edu/chemistry

Chemistry is the science concerned with substances and their properties, composition, and reactions. Recent advances in chemistry have exerted a profound influence on the progress of medicine, agriculture, industry, and commerce.

The undergraduate courses in Chemistry offered at UAA are designed primarily to provide a broad knowledge of the field as a part of the program of liberal education offered by the College of Arts and Sciences. They are also designed to provide a substantial foundation in chemistry for students interested in post-graduate studies in chemistry or the other sciences, preparation for professional degrees, teaching, or a career in government or industry. Students majoring in Chemistry will meet basic course requirements in inorganic, analytical, organic, physical chemistry and biochemistry.

The biochemistry option is designed for students who prefer a more biologically oriented approach to chemistry. During the past 25 years, biochemistry has become a central scientific discipline linking the chemical, physical, and biological sciences. By applying the concepts and methods of chemistry to the problems of biology, biochemists have made great progress in explaining life in chemical terms.

High School Preparation

The Bachelor of Science in Chemistry with options in Chemistry or Biochemistry is a four-year baccalaureate program which assumes a proper high school preparation. Consult the College of Arts and Sciences list of recommended preparatory courses in all disciplines. The specific coursework which a freshman student must have mastered for admission to the Chemistry program without a deficiency includes:

English	4 years
Mathematics	
Algebra	2 years
(This must have included complex numbers, logarithms, quadratic functions, inequalities and absolute values, plus conic sections).	
Geometry	1 year
Trigonometry	1/2 year
Natural Sciences	
Physics	1 year
(This must cover mechanics, thermodynamics, electricity and magnetism, and optics).	
Chemistry	1 year

(This must cover elementary laboratory procedures, introduction to atoms and molecules, chemical reactions, equilibrium, and an introduction to chemical calculations).

It is strongly recommended that students graduating from high school without the preparation indicated above enroll in available preparatory science courses during the summer session to make up deficiencies so that they can begin the fall semester with the correct sequence of the freshman Chemistry curriculum. If this is not done, it will be necessary to carry heavier course loads or take more than eight semesters to complete the degree. Students are reminded that it is imperative for them to regularly (at least once per semester) consult a departmental advisor to evaluate their progress through the program of study.

Program Student Learning Outcomes

It is expected that graduates of the Chemistry program will have the ability to:

1. Understand and critically solve problems related to the Physical and Natural Sciences and present those solutions for the advancement of knowledge in the field of Chemistry and Biochemistry.
2. Design and conduct experiments that include fieldwork, laboratory analyses, instrumental methods, theoretical development and interpretation in the discipline.

Honors in Chemistry

The Department of Chemistry awards departmental honors in Chemistry to undergraduate students who show exceptional performance in all of their coursework. To graduate with honors students must:

1. Satisfy all requirements for a Bachelor of Science degree in Chemistry.
2. Meet the requirements for Graduation with Honors as listed in Chapter 7.
3. Maintain a minimum GPA of 3.50 in Chemistry classes.
4. Complete, with distinction, a written assignment in the style of a chemical journal based on the research performed in CHEM A498.
5. Notify the Departmental Honors Committee in writing at the time they file their Application for Graduation with the Office of the Registrar that they intend to graduate with departmental honors.

Bachelor of Science, Chemistry

Admission Requirements

Complete the Admission to Baccalaureate Programs Requirements in Chapter 7.

Academic Progress

In order to graduate with a BS in Chemistry, all courses covered under Major Requirements for a BS in Chemistry must be completed with a grade of C or better.

Graduation Requirements

Students must complete the following graduation requirements:

A. General University Requirements

Complete the General University Requirements for All Baccalaureate Degrees located at the beginning of this chapter.

B. General Education Requirements

Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. College of Arts and Sciences Requirements

Complete the College of Arts and Sciences Requirements listed at the beginning of the CAS section.

D. Major Requirements

Students are strongly encouraged to talk to a faculty advisor in the Chemistry Department to ensure that the necessary math and science courses are taken in the first two years of study.

1. Students working toward a degree in Chemistry can choose one of two options:

Chemistry Option (83-84 credits)

Complete the following required courses:

BIOL A115	Fundamentals of Biology I	4
CHEM A105	General Chemistry I	3
CHEM A105L	General Chemistry I Laboratory	1
CHEM A106	General Chemistry II	3
CHEM A106L	General Chemistry II Laboratory	1
CHEM A253	Principles of Inorganic Chemistry	3
CHEM A312	Quantitative Analysis	5
CHEM A321	Organic Chemistry I	3
CHEM A322	Organic Chemistry II	3
CHEM A323L	Organic Chemistry Laboratory	2
CHEM A331	Physical Chemistry I	3
CHEM A332	Physical Chemistry II	3
CHEM A333L	Physical Chemistry Laboratory	2
CHEM A434	Instrumental Methods	5
CHEM A441	Principles of Biochemistry I	3
CHEM A453	Advanced Inorganic Chemistry	5
CHEM A492	Undergraduate Seminar (1)	2
CHEM A498	Individual Research (3)	6
MATH A200	Calculus I	4
MATH A201	Calculus II	4
MATH A202	Calculus III	4
MATH A314	Linear Algebra	3
PHYS A211	General Physics I	3
PHYS A211L	General Physics I Laboratory	1
PHYS A212	General Physics II	3
PHYS A212L	General Physics II Laboratory	1

Upper Division Elective (choose one of the following) *3-4*

BIOL A310	Principles of Physiology (4)
BIOL A415	Comparative Animal Physiology (3)
BIOL A461	Molecular Biology (3)
CHEM A442	Principles of Biochemistry II (3)
CHEM A450	Environmental Chemistry (3)

CHEM A456	Nonlinear Dynamics and Chaos (3)
CHEM A460	Chemical Ecotoxicology (3)
CHEM A471	Immunochemistry (4)
GEOL A321	Mineralogy (4)
GEOL A360	Geochemistry (3)
GEOL A460	Environmental Geochemistry (3)
MATH A302	Ordinary Differential Equations (3)
MATH A422	Partial Differential Equations (3)
PHYS A303	Modern Physics (3)
PHYS A320	Simulation of Physical Systems (3)
PHYS A403	Quantum Mechanics (3)
PHYS A413	Statistical and Thermal Mechanics (3)

Biochemistry Option (88 credits)

Complete the following required courses:

BIOL A115	Fundamentals of Biology I	4
BIOL A116	Fundamentals of Biology II	4
BIOL A242	Fundamentals of Cell Biology	4
BIOL A252	Principles of Genetics	4
BIOL A461	Molecular Biology	3
CHEM A105	General Chemistry I	3
CHEM A105L	General Chemistry I Laboratory	1
CHEM A106	General Chemistry II	3
CHEM A106L	General Chemistry II Laboratory	1
CHEM A253	Principles of Inorganic Chemistry	3
CHEM A312	Quantitative Analysis	5
CHEM A321	Organic Chemistry I	3
CHEM A322	Organic Chemistry II	3
CHEM A323L	Organic Chemistry Laboratory	2
CHEM A311	Physical Chemistry: A Biological Orientation	3
	or	
CHEM A331	Physical Chemistry I	3
CHEM A441	Principles of Biochemistry I	3
CHEM A442	Principles of Biochemistry II	3
CHEM A443	Biochemistry Laboratory	2
CHEM A492	Undergraduate Seminar (1)	2
CHEM A498	Individual Research (3)	6
MATH A200	Calculus I	4
MATH A201	Calculus II	4
(either Physics sequence)		
PHYS A123	Basic Physics I	3
PHYS A123L	Basic Physics I Laboratory	1
PHYS A124	Basic Physics II	3
PHYS A124L	Basic Physics II Laboratory	1
	or	
PHYS A211	General Physics I	3
PHYS A211L	General Physics I Laboratory	1
PHYS A212	General Physics II	3
PHYS A212L	General Physics II Laboratory	1

Upper Division Selective (choose from the following)		*9*
BIOL A310	Principals of Physiology (4)	
BIOL A340	General Microbiology (5)	
BIOL A415	Comparative Animal Physiology (3)	

BIOL A451	Applied Microbiology (3)
BIOL A452	Human Genome (3)
BIOL A461L	Molecular Biology Lab (3)
BIOL A462	Virology (3)
BIOL A471	Immunochemistry (4)
BIOL A488	Developmental Biology (4)
CHEM A332	Physical Chemistry II (3)
CHEM A333L	Physical Chemistry Lab (2)
CHEM A434	Instrumental Methods (5)
CHEM A450	Environmental Chemistry (3)
CHEM A453	Advanced Inorganic Chemistry (5)
CHEM A460	Chemical Ecotoxicology (3)
CHEM A471	Immunochemistry (4)

2. A total of 120-126 credits is required for the degree, of which 42 credits must be upper division.

Minor, Chemistry

Students majoring in another subject who wish to minor in Chemistry must complete the following requirements. A total of 24 credits is required for the minor.

CHEM A105	General Chemistry I	3
CHEM A105L	General Chemistry I Laboratory	1
CHEM A106	General Chemistry II	3
CHEM A106L	General Chemistry II Laboratory	1
CHEM A312	Quantitative Analysis	5
CHEM A321	Organic Chemistry I	3
CHEM A322	Organic Chemistry II	3
CHEM A323L	Organic Chemistry Laboratory	2
CHEM A311	Physical Chemistry: A Biological Orientation (3) or	3
CHEM A331	Physical Chemistry I (3)	

FACULTY

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Mark McCoy, Assistant Professor, mrmccoy@uaa.alaska.edu
Liliya Vugmeyster, Assistant Professor, lvugmeyster@uaa.alaska.edu

1. A total of 122-125 credits is required for the degree, 42 credits of which must be upper division.

Bachelor of Science, Natural Sciences

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For a complete program description see the Natural Sciences section of this chapter.

Minor, Biological Sciences

Students majoring in another subject who wish to minor in Biological Sciences must complete the following requirements. A total of 28 credits is required for the minor, 12 of which must be upper division.

BIOL A115	Fundamentals of Biology I	4
BIOL A116	Fundamentals of Biology II	4
BIOL A242	Fundamentals of Cell Biology	4
BIOL A252	Principles of Genetics	4
Upper division Biological Sciences electives		12

FACULTY

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Kristine Mann, Professor Emeritus, afkem@uaa.alaska.edu
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CHEMISTRY

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The biochemistry option is designed for students who prefer a more biologically oriented approach to chemistry. During the past 25 years, biochemistry has become a central scientific discipline linking the chemical, physical, and biological sciences. By applying the concepts and methods of chemistry to the problems of biology, biochemists have made great progress in explaining life in chemical terms.

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Mathematics	
Algebra	2 years
(This must have included ~~at least~~ complex numbers, logarithms, quadratic functions, inequalities and absolute values, plus conic sections).	
Geometry	1 year
Trigonometry	1/2 year
Natural Sciences	
Physics	1 year
(This must cover mechanics, thermodynamics, electricity and magnetism, and optics).	
Chemistry	1 year
(This must cover elementary laboratory procedures, introduction to atoms and molecules, chemical reactions, equilibrium, and an introduction to chemical calculations).	

It is strongly recommended that students graduating from high school without the preparation indicated above enroll in available ~~non-~~preparatory science courses during the summer session to make up deficiencies so that they can begin the fall semester with the correct sequence of the freshman Chemistry curriculum. If this is not done, it will be necessary to carry heavier course loads or take more than eight semesters to complete the degree. Students are reminded that it is imperative for them to regularly (at least once per semester) consult a departmental advisor to evaluate their progress through the program of study.

Program Student Learning Outcomes

It is expected that graduates of the Chemistry program will have the ability to:

1. Understand and critically solve problems related to the Physical and Natural Sciences and present those solutions for the advancement of knowledge in the field of Chemistry and Biochemistry.
2. Design and conduct experiments that include fieldwork, laboratory analyses, instrumental methods, theoretical development and interpretation in the discipline.

Honors in Chemistry

The Department of Chemistry awards departmental honors in Chemistry to undergraduate students who show exceptional performance in all of their coursework. To graduate with honors students must:

1. Satisfy all requirements for a Bachelor of Science degree in Chemistry.
2. Meet the requirements for Graduation with Honors as listed in Chapter 7.
3. Maintain a minimum GPA of 3.50 in Chemistry classes.
4. Complete, with distinction, a written assignment in the style of a chemical journal based on the research performed in CHEM A498.
5. Notify the Departmental Honors Committee in writing at the time they file their Application for Graduation with the Office of the Registrar that they intend to graduate with departmental honors.

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Bachelor of Science, Chemistry

Admission Requirements

Complete the Admission to Baccalaureate Programs Requirements in Chapter 7.

Academic Progress

In order to graduate with a BS in Chemistry, all courses covered under Major Requirements for a BS in Chemistry must be completed with a grade of C or better.

Graduation Requirements

Students must complete the following graduation requirements:

A. General University Requirements

Complete the General University Requirements for All Baccalaureate Degrees located at the beginning of this chapter.

B. General Education Requirements

Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. College of Arts and Sciences Requirements

Complete the College of Arts and Sciences Requirements listed at the beginning of the CAS section.

D. Major Requirements

Students are strongly encouraged to talk to a faculty advisor in the Chemistry Department to ensure that the necessary math and science courses are taken in the first two years of study.

1. Students working toward a degree in Chemistry can choose one of two options:

Chemistry Option (~~82-83~~83-~~84~~ credits)

Complete the following required courses:

BIOL A115	Fundamentals of Biology I	4
CHEM A105	General Chemistry I	3
CHEM A105L	General Chemistry I Laboratory	1
CHEM A106	General Chemistry II	3
CHEM A106L	General Chemistry II Laboratory	1
CHEM A253	Principles of Inorganic Chemistry	3
CHEM A312	Quantitative Analysis	5
CHEM A321	Organic Chemistry I	3
CHEM A322	Organic Chemistry II	3
CHEM A323L	Organic Chemistry Laboratory	2
CHEM A331	Physical Chemistry I	3
CHEM A332	Physical Chemistry II	3
CHEM A333L	Physical Chemistry Laboratory	2
CHEM A434	Instrumental Methods	5
CHEM A441	Principles of Biochemistry I	3
CHEM A453	Advanced Inorganic Chemistry	5
CHEM A492	Undergraduate Seminar (1)	2
CHEM A498	Individual Research (3)	6
MATH A200	Calculus I	4
MATH A201	Calculus II	4
MATH A202	Calculus III	4
MATH A314	Linear Algebra	3
PHYS A211	General Physics I	3
PHYS A211L	General Physics I Laboratory	1
PHYS A212	General Physics II	3
PHYS A212L	General Physics II Laboratory	1
Upper Division Elective (choose one of the following)		*3-4*

BIOL A310	Principles of Physiology (~~3~~4)	
BIOL A415	Comparative Animal Physiology (~~4~~3)	
BIOL A461	Molecular Biology (3)	
CHEM A442	Principles of Biochemistry II (3)	
CHEM A450	Environmental Chemistry (3)	
CHEM A456	Non-linear Dynamics and Chaos (3)	
CHEM A460	Chemical Ecotoxicology (3)	
CHEM A471	Immunochemistry (4)	
GEOL A321	Mineralogy (4)	
GEOL A360	Geochemistry (3)	
GEOL A460	Environmental Geochemistry (3)	
MATH A302	Ordinary Differential Equations (3)	
MATH A422	Partial Differential Equations (3)	
PHYS A303	Modern Physics (3)	
PHYS A320	Simulation of Physical Systems (3)	
PHYS A403	Quantum Mechanics (3)	
PHYS A413	Statistical ~~Methods~~ and Thermal Mechanics (3)	

Biochemistry Option (~~86~~ ~~87~~ ~~88~~ credits)

Complete the following required courses:

BIOL A115	Fundamentals of Biology I	4
BIOL A116	Fundamentals of Biology II	4
BIOL A242	Fundamentals of Cell Biology	4
BIOL A252	Principles of Genetics	4
~~*Upper Division Biology (choose one of the following)*~~		~~3-4~~
~~BIOL A310~~	~~Principles of Physiology (3)~~	
	~~or~~	
~~BIOL A415~~	~~Comparative Animal Physiology (4)~~	
	~~or~~	
BIOL A461	Molecular Biology ~~(3)~~	3
CHEM A105	General Chemistry I	3
CHEM A105L	General Chemistry I Laboratory	1
CHEM A106	General Chemistry II	3
CHEM A106L	General Chemistry II Laboratory	1
CHEM A253	Principles of Inorganic Chemistry	3
CHEM A312	Quantitative Analysis	5
CHEM A321	Organic Chemistry I	3
CHEM A322	Organic Chemistry II	3
CHEM A323L	Organic Chemistry Laboratory	2
CHEM A311	~~Physical Chemistry/Biological~~ ~~Orientation~~Physical Chemistry: A Biological Orientation	3
	or	
CHEM A331	Physical Chemistry I	3
~~CHEM A434~~	~~Instrumental Methods~~	~~5~~
CHEM A441	Principles of Biochemistry I	3
CHEM A442	Principles of Biochemistry II	3
CHEM A443	Biochemistry Laboratory	2
CHEM A492	Undergraduate Seminar (1)	2
CHEM A498	Individual Research (3)	6
MATH A200	Calculus I	4
MATH A201	Calculus II	4
~~MATH A202~~	~~Calculus III~~	~~4~~
(either Physics sequence)		
PHYS A123	Basic Physics I	3

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PHYS A123L	Basic Physics I Laboratory	1
PHYS A124	Basic Physics II	3
PHYS A124L	Basic Physics II Laboratory	1
	or	
PHYS A211	General Physics I	3
PHYS A211L	General Physics I Laboratory	1
PHYS A212	General Physics II	3
PHYS A212L	General Physics II Laboratory	1

Upper Division ~~Elective~~Selective (choose from the following)		9
BIOL A310	Principals of Physiology (~~3~~4)	
BIOL A340~~/L~~	General Microbiology (5)	
BIOL A415	Comparative Animal Physiology (3)	
BIOL A451	Applied Microbiology (3)	
BIOL A452	Human Genome (3)	
BIOL A461L	Molecular Biology Lab (3~~1~~)	
BIOL A462	Virology (3)	
BIOL A471	Immunochemistry (4)	
BIOL A488	Developmental Biology (4)	
CHEM A332	Physical Chemistry II (3)	
CHEM A333L	Physical Chemistry Lab (~~1~~2)	
CHEM A434	Instrumental Methods (5)	
CHEM A450	Environmental Chemistry (3)	
CHEM A453	Advanced Inorganic Chemistry (5)	
CHEM A460	Chemical Ecotoxicology (3)	
CHEM A471	Immunochemistry (4)	

2. A total of 120-126 credits is required for the degree, of which 42 credits must be upper division.

Minor, Chemistry

Students majoring in another subject who wish to minor in Chemistry must complete the following requirements. A total of 24 credits is required for the minor.

CHEM A105	General Chemistry I	3
CHEM A105L	General Chemistry I Laboratory	1
CHEM A106	General Chemistry II	3
CHEM A106L	General Chemistry II Laboratory	1
CHEM A312	Quantitative Analysis	5
CHEM A321	Organic Chemistry I	3
CHEM A322	Organic Chemistry II	3
CHEM A323L	Organic Chemistry Laboratory	2
CHEM A311	Physical Chemistry: A Biological Orientation (3) or	3
CHEM A331	Physical Chemistry I (3)	

FACULTY

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Date: October 8, 2013

To: Lora Volden, UAA Registrar

From: M. Angela Dirks, Associate Professor, CTE Department Chair

Re: Delete Course TECH 422 – Bachelor of Science, Technology

TECH A422, Senior Project, was a required course for the Science and Technology emphasis of the BS Technology (BST) through the 2005-2006 catalog year. The BST curriculum underwent a significant revision that took effect in the 2006-2007 catalog year. One of the changes was to eliminate TECH A422 and replace it with TECH A453, the Capstone Project.

TECH A453 has been taught since spring 2007 and has been the final capstone course for all Bachelor of Science, Technology (BST) students in catalogs since fall 2006.

TECH 453 is a significantly different course from TECH 422. TECH 453 was built as a GER Tier 3 course to specifically meet BST program outcomes. For students in catalogs starting with 2006-2007 TECH 422 is NOT an adequate substitute since it does not provide the data to assess program outcomes. TECH 422 applies only to students admitted to the BST prior to fall of 2006. Those admissions now fall outside the seven-year window; all students have graduated or their admission has expired.

DegreeWorks currently accepts TECH 422 as a substitute for TECH 453. Because these are not equivalent classes, this oversight needs to be corrected.

The program therefore respectfully requests that TECH 422 be not allowed to replace TECH 453, Capstone Project.

Enrollment Services
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July 26, 2013

To: Faculty Senate Executive Board
Cc: Dr. Bruce Schultz, Vice Chancellor for Student Affairs
Eric Pedersen, Associate Vice Chancellor for Enrollment Services

From: Lora Volden, University Registrar
Dr. Susan Kalina, Associate Vice Provost for Undergraduate Academic Affairs
Re: Federal Compliance Regulations related to Grading and Attendance

This summer the Office of Financial Aid underwent an informal compliance review. The outside review team identified one issue of particular concern for the campus. This issue has to do with reporting when a student commenced attendance. I am requesting feedback from the Faculty Senate Executive Board regarding compliance with federal regulations related to this issue. It is important to note that other institutions have been audited on this and have been required to pay back aid which had been awarded.

Federal regulations require that schools:

- Verify if a student EVER attended (if they ever sat in a seat, were involved online, etc.)
- If they did begin, identify when they stopped
    - Benefits related to VA need a hard date of last attendance. This population is small and our financial aid office has indicated that they can manually handle this work load.
    - If a student receives a non-passing grade, UAA needs to report if they participated beyond 60% of the course meeting days.
- Report any audits registered after the 100% refund period as attempted hours. We don't have a way to do this with our current deadlines and database.

Although UAA implemented a date of last attendance for grades of "F" or "NB" last fall, we have not yet created a procedure for indicating commencing attendance.

Our obligation is to have a policy which allows for federal regulations to be followed and to make a good faith effort to comply. It is not expected that faculty members keep attendance records. However, we need to report occurrences where students never attended a class in which they are formally registered.

In regards to attendance, I ask the E-Board to consider and weigh the following options:

Option One: Request that faculty utilize the "Attend Hours" in UAOnline grading. If a student never attended, faculty should enter a value of "0."

Option Two: Create a new grade "NA," which would indicate the student never attended. Faculty would also need to determine if this has any impact on GPA.

Option Three: Create a policy which would require faculty to initiate a drop for any student who has not attended by the end of the add/drop period or made special arrangements with the faculty member.

I would also suggest that UAA revise the deadline related to audits to align with the add/drop deadline.