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)
( ) Jrasema Ortega (COE)
( ) Vacancy (CTC)
( ) Utpal Dutta (SOE)
( ) 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. 1-2)

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

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
Add Minor, Speech-Language Pathology/EDSL (pg. 5-8)

VII. Program/Course Action Request- First Readings
Add Prefix, EDSL (pg. 9)

Chg ENGL A490 Topics in English Studies (3 cr)(3+0)(pg. 10-17)
Del ENGL A491 Topics in Composition and Rhetoric (1-3 cr)(1-3+0)(pg. 18-19)
Chg Minor, English (pg. 20)
Chg BA, English (pg. 21-33)
Chg PHYS A123L Basic Physics I Laboratory (GER)(1 cr)(0+3)(pg. 34-37)
Add PHYS A123R Basic Physics I Problem Solving (1 cr)(0+1.5)(pg. 38-40)
Chg PHYS A124L Basic Physics II Laboratory (GER)(1 cr)(0+3)(pg. 41-44)
Add PHYS A124R Basic Physics II Problem Solving (1 cr)(0+1.5)(pg. 45-47)
Chg PHYS A211 General Physics I (GER)(3 cr)(3+0)(pg. 48-52)
Chg PHYS A211L General Physics I Laboratory (GER)(1 cr)(0+3)(pg. 53-56)
Chg PHYS A212 General Physics II (GER)(3 cr)(3+0)(pg. 57-61)
Chg PHYS A212L General Physics II Laboratory (GER)(1 cr)(0+3)(pg. 62-65)
Add PHYS A362 Optics (4 cr)(4+0)(pg. 66-69)
Chg OEC, Phlebotomist (pg. 70-71)
Chg OEC, Clinical Assistant (pg. 72)
Chg AAS, Medical Laboratory Technology (pg. 73)
Chg BS, Medical Laboratory Science (MEDT) (pg. 74-88)
Add Prefix, COHI (pg. 89-91)

VIII. Old Business
A. Academic Policies regarding Occupational Endorsement Certificates (OEC) (pg. 92-93)

IX. New Business

X. Informational Items and Adjournment
January 24, 2014
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)
(x) Irasema Ortega (COE)
(x) Vacancy (CTC)
(x) Utpal Dutta (SOE)
(x) Michael Hawfield (KPC)
(x) Sheri Denison (Mat-su)
(x) Kathryn Hollis Buchanan(Kod)
(x) Kevin Keating (LIB)
(x) Susan Kalina
(x) Lora Volden
(x) Michael Worth

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

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

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

IV. Administrative Report
A. Vice Provost for Undergraduate Academic Affairs Susan Kalina
B. University Registrar Lora Volden
   Purge lists have been released and faculty are encouraged to review them
   CourseLeaf has given administrative permissions to the Registrar’s Office
   Michael Worth has accepted another position within Student Affairs

V. Chair’s Report
A. UAB Chair- Francisco Miranda
   No Report
B. GERC
   GERC members attended the Faculty Senate forum that discussed GER Progression

VI. Program/Course Action Request- Second Readings
Add        HNRS A498        Individual Research (1-6 cr)(0+2+12)(pg, 5-8)
Approved for second reading

VII. Program/Course Action Request- First Readings
Add        JUST A356        Organized Crime (3 cr)(3+0)(pg. 9-14)
Waive first reading, approve for second
Add        EDSL A201        Foundations of Communication Disorders (3 cr)(3+0)(pg. 20-25)
Add        EDSL A301        Anatomy and Physiology of Speech and Hearing (3 cr)(3+0)(pg. 26-31)
Add        EDSL A302        Phonetics (3 cr)(3+0)(pg. 32-37)
Add        EDSL A303        Language Development Across the Lifespan (3 cr)(3+0)(pg. 38-43)
Add        EDSL A401        Phonology and Articulation Development and Disorders (3 cr)(3+0)(pg. 44-50)
Add        EDSL A402        Audiology (3 cr)(3+0)(pg. 51-55)
Add        EDSL A403        Aural Rehabilitation (3 cr)(3+0)(pg. 56-61)
Add EDSL A410 Speech Science (3 cr)(3+0)(pg. 62-66)
Add EDSL A411 Neurological Foundations of Speech and Hearing (3 cr)(3+0)(pg. 67-72)
All EDSL courses are waived for first reading and approve for second

Add Minor, Speech-Language Pathology/EDSL (pg. 73-76)
Accepted for first reading

Add Post Baccalaureate Certificate, Speech Language Pathology (pg. 77-81)
Waive first reading, approve for second

VIII. Old Business

IX. New Business
A. Designation for Community-Engaged Learning Courses (pg. 81-83)
   UAB endorses that Faculty Senate adopt the designations and definitions for the Designation for Community-Engaged Learning Courses with the change of “course goals” to “Student Learning Outcomes”
   1st Mari Ippolito
   2nd Christine Stuive
   Unanimously Approved

X. Informational Items and Adjournment
TO: Undergraduate Academic Board

FROM: Ellen Brigham, Term Assistant Professor, Special Education, COE

DATE: November 20, 2013

SUBJECT: Proposal for a Minor in Speech-Language Pathology

We are proposing establishment of a Minor in Speech-Language Pathology to enable students to:

- Understand the scope of the discipline of Speech-Language Pathology and its role in educational, clinical, and medical settings.
- Bolster knowledge acquired in other majors, such as nursing, education, human services, psychology, counseling, and social work by improving the student’s knowledge of the communication process and communication disorders.
- Obtain information that will help one as an educator or health professional to better understand, teach, and/or interact with individuals with speech, language, or hearing impairment.
- Obtain coursework in preparation for graduate study in Speech-Language Pathology.

Below is the proposed Speech-Language Pathology Minor (21 credits)*

EDSL A201 Foundations of Communication Disorders 3 credits
Examines common developmental and acquired speech, language, and hearing disorders including etiologies, characteristics, prevention, assessment, and intervention. Multicultural communication differences are considered. The interdisciplinary nature of the field of communication disorders is described, particularly as it relates to educational, health, and developmental settings.

EDSL A301 Anatomy & Physiology of Speech & Hearing 3 credits
Examines the anatomy and physiology of the systems involved in human communication and swallowing: respiration, phonation, articulation/resonance, nervous system, auditory system, and mastication/deglutition. Examines the relationship between anatomy, physiology, and disorders of communication.

EDSL A302 Phonetics 3 credits
Explores the production, classification, and transcription of speech sounds. Develops skills in transcription of speech at the vowel, consonant, and single-word level as well as connected speech. Differentiates speech disorders from dialectic variations.

EDSL A303 Language Development Across the Lifespan 3 credits
Explores the normal acquisition of language, including the components of language, the perceptual, social, and cognitive bases of language, theories of language development, and how
language evolves from infancy through adulthood. Second language learning and cultural influences on language development will also be explored.

**EDSL A401 Phonology & Articulation Development & Disorders**  
Explores articulation and phonological development and disorders in relation to acquisition, multicultural factors, appraisal, differential diagnosis, and remediation.

**EDSL A402 Audiology**  
Explores normal hearing, causes and effects of impaired hearing, hearing testing procedures, and management of hearing loss.

**EDSL A403 Aural Rehabilitation**  
Integrates the science of hearing loss identification and management with specific emphasis on the strategies speech-language and hearing professionals use in providing support and counseling, along with developing habilitation/rehabilitation plans to maximize auditory skills and promote communication success for children and adults.

*Additional courses required if applying to the affiliated graduate program:

**EDSL A410 Speech Science**  
Explores the physiology and acoustic correlates of the speech production mechanism. Introduces speech science theory, instrumentation, and measurement.

**EDSL A411 Neurological Foundations of Speech and Language**  
Explores neuroanatomy and neurophysiology including current research of nervous system structures and functions important for speech and language. Critically analyses current theories of the neurophysiology utilized in speech and language.
### Program/Prefix Action Request

**University of Alaska Anchorage**

**Proposal to Initiate, Add, Change, or Delete a Program of Study or Prefix**

<table>
<thead>
<tr>
<th>1a. School or College</th>
<th>1b. Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA COE</td>
<td>Special Education</td>
</tr>
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<table>
<thead>
<tr>
<th>2. Complete Program Title/Prefix</th>
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<tbody>
<tr>
<td>Speech-Language Pathology/EDSL</td>
</tr>
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<table>
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<tr>
<th>3. Type of Program</th>
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<tbody>
<tr>
<td>Choose one from the appropriate drop down menu: Undergraduate: or Graduate: Minor or CHOOSE ONE</td>
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This program is a Gainful Employment Program: Yes or No

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<td>□ Delete</td>
<td>□ Inactivate</td>
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<thead>
<tr>
<th>5. Implementation Date (semester/year)</th>
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<tr>
<td>From: Fall/2014 To: 9999</td>
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<table>
<thead>
<tr>
<th>6a. Coordination with Affected Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department, School, or College: COE, COH - Courtesy email</td>
</tr>
<tr>
<td>Initiator Name (typed): Ellen Brigham</td>
</tr>
<tr>
<td>Initiator Signed Initials: __________</td>
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</table>

<table>
<thead>
<tr>
<th>6b. Coordination Email submitted to Faculty Listserv (<a href="mailto:uaa-faculty@lists.uaa.alaska.edu">uaa-faculty@lists.uaa.alaska.edu</a>)</th>
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<tr>
<td>Date: 11/25/13</td>
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<tr>
<th>6c. Coordination with Library Liaison</th>
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<tr>
<th>7. Title and Program Description - Please attach the following:</th>
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<tbody>
<tr>
<td>☑ Cover Memo</td>
</tr>
<tr>
<td>☑ Catalog Copy in Word using the track changes function</td>
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</table>

<table>
<thead>
<tr>
<th>8. Justification for Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>There is a documented severe shortage of Speech-Language Pathologists in education and healthcare in Alaska. This Minor will allow students to obtain coursework in preparation for graduate study in Speech-Language Pathology. It will also enable students to bolster knowledge acquired in other majors, such as nursing, education, human services, psychology, counseling, and social work by improving the students' knowledge of the communication process and communication disorders.</td>
</tr>
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<table>
<thead>
<tr>
<th>Initiator (faculty only)</th>
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<tbody>
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<td>Date: __________</td>
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<table>
<thead>
<tr>
<th>Initiator (TYPE NAME)</th>
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<tbody>
<tr>
<td>Ellen Brigham</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Dean/Director of School/College</th>
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<table>
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<th>Board Chair</th>
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<tr>
<td>Date: __________</td>
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<tr>
<th>Provost or Designee</th>
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<tr>
<td>Date: __________</td>
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7
Minor, Speech-Language Pathology

The minor in Speech-Language Pathology provides candidates with an overview of the nature of human communication, including its origin, development, and processes. Candidates will also be introduced to common communication disorders and their impact on communication across the lifespan. The minor allows students to obtain coursework in preparation for graduate study in speech-language pathology*.

Program Student Learning Outcomes

Upon completion of the program students will be able to:

1. Recognize typically developing speech and language skills across the lifespan.
2. Compare and contrast the impact of physiological variables (respiration, phonation, resonation, articulation, mentation, audition) on communication.
3. Identify common disorders that affect the ability to communicate across the lifespan.
4. Critically evaluate the impact of speech, language, and hearing disorders on the communication processes across the lifespan.
5. Critically evaluate issues pertaining to cultural and linguistic diversity.

Students majoring in another subject who wish to minor in Speech-Language Pathology must complete the following requirements. A total of 21 credits are required for the minor.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EDSL A201</td>
<td>Foundations of Communication Disorders</td>
<td>3</td>
</tr>
<tr>
<td>EDSL A301</td>
<td>Anatomy and Physiology of Speech and Hearing</td>
<td>3</td>
</tr>
<tr>
<td>EDSL A302</td>
<td>Phonetics</td>
<td>3</td>
</tr>
<tr>
<td>EDSL A303</td>
<td>Language Development Across the Lifespan</td>
<td>3</td>
</tr>
<tr>
<td>EDSL A401</td>
<td>Phonology and Articulation Development and Disorders</td>
<td>3</td>
</tr>
<tr>
<td>EDSL A402</td>
<td>Audiology</td>
<td>3</td>
</tr>
<tr>
<td>EDSL A403</td>
<td>Aural Rehabilitation</td>
<td>3</td>
</tr>
</tbody>
</table>

*Special note: The affiliated graduate program in Communication Sciences and Disorders has requirements in addition to coursework required for the Speech-Language Pathology Minor. Students are advised to contact a College of Education advisor for details.
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
EA COE

1b. Department
Special Education

2. Complete Program Title/Prefix
EDSL - Speech-Language Pathology

3. Type of Program
Choose one from the appropriate drop down menu:
Undergraduate: or Graduate:
CHOOSE ONE

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

4. Type of Action:
PROGRAM
☐ Add
☐ Change
☐ Delete

PREFIX
☒ Add
☐ Change
☐ Inactivate

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

6a. Coordination with Affected Units
Department, School, or College: COE, COH - Courtesy email
Initiator Name (typed): Ellen Brigham
Date:________
Initiator Signed Initials: _________

6b. Coordination Email submitted to Faculty Listserv (uaa-faculty@lists.uaa.alaska.edu)
Date: 11/25/13

6c. Coordination with Library Liaison
Date: 11/12/13

7. Title and Program Description - Please attach the following:
☒ Cover Memo
☒ Catalog Copy in Word using the track changes function

8. Justification for Action
This is a new prefix to add courses for the Minor and Post Baccalaureate Certificate in Speech-Language Pathology.

Initiator (faculty only)
Ellen Brigham
Initiator (TYPE NAME)

☑ Approved
☒ Disapproved
Date
Dean/Director of School/College
Date

☑ Approved
☒ Disapproved
Date
Undergraduate/Graduate Academic
Date

☑ Approved
☒ Disapproved
Date
Board Chair

☑ Approved
☒ Disapproved
Date
Provost or Designee
TO: CAS Course and Curriculum, UAB, and UAA Faculty

From: Jennifer Stone, Department of English

DATE: September 20, 2013

Subject: Proposed Course and Program Changes

The Department of English is proposing two actions that will affect the catalog copy for our major and minor.

First, we are updating the CCG and CAR for ENGL A490: Topics in English Studies. This update will change the title and broaden the focus of the course to include topics from the areas of composition and rhetoric.

Second, we would like to delete ENGL A491: Topics in Composition and Rhetoric, which will be made unnecessary by the update to ENGL A490.

Additionally, we have fixed a few minor details that were missed in previous program revisions.

Please direct any questions or comments to me at jstone32@uaa.alaska.edu, 786-4373.

Attached: ENGL A490 updated CAR and CCG; ENGL A491 deletion CAR; PAR for English Major; PAR for English Minor; Catalog copy for English (track changes and clean copy)
### Course Action Request

**University of Alaska Anchorage**

**Proposal to Initiate, Add, Change, or Delete a Course**

<table>
<thead>
<tr>
<th>1a. School or College</th>
<th>1b. Division</th>
<th>1c. Department</th>
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<tbody>
<tr>
<td>AS CAS</td>
<td>AHUM Division of Humanities</td>
<td>English</td>
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<tr>
<th>2. Course Prefix</th>
<th>3. Course Number</th>
<th>4. Previous Course Prefix &amp; Number</th>
<th>5a. Credits/CEUs</th>
<th>5b. Contact Hours (Lecture + Lab)</th>
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<td>Topics in English Studies</td>
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**Abbreviated Title for Transcript (30 character)**

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<th>7. Type of Course</th>
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<th>8. Type of Action:</th>
<th>☐ Add</th>
<th>☑ Change</th>
<th>☐ Delete</th>
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</table>

If a change, mark appropriate boxes:
- ☑ Prefix
- ☑ Credits
- ☑ Course Number
- ☑ Contact Hours
- ☑ Title
- ☑ Grading Basis
- ☑ Cross-Listed/Stacked
- ☑ Course Description
- ☑ Co-requisites
- ☑ Test Score Prerequisites
- ☑ Co-requisites
- ☑ Other Restrictions
- ☑ Registration Restrictions
- ☑ Other CCG and Adding Fees (please specify)

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<th>9. Repeat Status Yes</th>
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<tr>
<th>11. Implementation Date</th>
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<tr>
<td>From: Fall/2014</td>
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<th>13a. Impacted Courses or Programs:</th>
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<tbody>
<tr>
<td>List any programs or college requirements that require this course.</td>
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</table>

Please type into fields provided in table. If more than three entries, submit a separate table. A template is available at [www.uaa.alaska.edu/governance](http://www.uaa.alaska.edu/governance).

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<tr>
<th>Impacted Program/Course</th>
<th>Date of Coordination</th>
<th>Chair/Coordinator Contacted</th>
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<td>Honors in English</td>
<td>09/20/2013</td>
<td>Daniel Kline, Department of English Chair</td>
</tr>
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<td>English Major</td>
<td>09/20/2013</td>
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<tr>
<td>English Minor</td>
<td>09/20/2013</td>
<td>Daniel Kline, Department of English Chair</td>
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Initiator Name (typed): Jennifer Stone

Initiator Signed Initials: 

<table>
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13b. Coordination Email:

| Date: 09/20/2013 | submitted to Faculty Listserv: [uaa-faculty@lists.uaa.alaska.edu](mailto:uaa-faculty@lists.uaa.alaska.edu) |

13c. Coordination with Library Liaison:

| Date: 09/20/2013 |

14. General Education Requirement

Mark appropriate box:
- ☑ Oral Communication
- ☑ Written Communication
- ☑ Quantitative Skills
- ☑ Humanities
- ☑ Fine Arts
- ☑ Social Sciences
- ☑ Natural Sciences
- ☑ Integrative Capstone

15. Course Description (suggested length 20 to 50 words)

Current topics in English literature, composition, rhetoric, or linguistics, arising from special circumstances of demand or faculty expertise. Special Note: May be repeated for a maximum of nine credits with a change of subtitle.

16a. Course Prerequisite(s) (list prefix and number or test code and score)

[ENGL A201 with minimum grade of C or ENGL A202 with minimum grade of C]; and [ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C or ENGL A214 with minimum grade of C]

16b. Co-requisite(s) (concurrent enrollment required)

n/a

16c. Other Restriction(s)

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16d. Registration Restriction(s) (non-codable)

17. ☑ Mark if course has fees

18. ☑ Mark if course is a selected topic course

19. Justification for Action

Merging ENGL A490 and ENGL A491; adjusted title and description to accurately reflect course content and removed variable credit
University of Alaska Anchorage
Course Content Guide

I. Initiation Date: September 20, 2013

II. Course Information

A. College: College of Arts and Sciences
B. Course Prefix: ENGL
C. Course Number: A490
D. Number of Credits: 3
E. Contact Time: 3 + 0
F. Course Title: Topics in English Studies
G. Grading Basis: A-F
H. Implementation Date: Fall 2014
I. Cross-listed/stacked: N/A
J. Course Description: Current topics in English literature, composition, rhetoric, or linguistics, arising from special circumstances of demand or faculty expertise. Special Note: May be repeated for a maximum of nine credits with a change of subtitle.
K. Course Prerequisites: [ENGL A201 with minimum grade of C or ENGL A202 with minimum grade of C]; and [ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C or ENGL A214 with minimum grade of C]
L. Course Co-requisites: N/A
M. Other Restrictions: N/A
N. Registration Restrictions: N/A
O. Status of Course: The course may fulfill a requirement for BA in English.
P. Lab Fees: Yes
Q. Coordination: English, UAA Faculty Listserv

III. Course Level Justification

As a course that deals with an in-depth consideration of a complex topic, this course is best suited to students in their junior or senior years. It is also appropriate for graduate students.
IV. Instructional Goals and Defined Outcomes (Note: for purposes of exemplification, what follows is one specific offering of this course, focused on the topic of plagiarism)

<table>
<thead>
<tr>
<th>Instructional Goals</th>
<th>Student Learning Outcomes</th>
<th>Assessment Methods</th>
</tr>
</thead>
<tbody>
<tr>
<td>The instructor will:</td>
<td>Students will be able to:</td>
<td></td>
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</tbody>
</table>
| Provide an overview of definitions and cultural perspectives as they relate to different contexts where plagiarism occurs. | Define plagiarism according to the context where it occurs and explain cultural perspectives on plagiarism. | Reading exercises  
Performance on quizzes |
| Introduce issues and concepts necessary to discuss plagiarism. | Explain concepts associated with plagiarism in order to analyze issues associated with plagiarism. | Reading exercises  
Classroom discussion  
Performance on quizzes  
Writing assignments |
| Address the practices and places associated with plagiarism as well as with plagiarism prevention and detection. | Identify and analyze issues associated with 1) places considered to be sites of plagiarism and 2) practices used to commit and prevent plagiarism. | Analysis of plagiarism policies  
Writing center observation  
Analysis of faculty attitude toward plagiarism detection software |
| Address public and academic attitudes about and perceptions of plagiarism as well as attitudes about knowledge. | Develop an informed perspective on plagiarism based on multiple perceptions of plagiarism. | Classroom discussion  
Audio essay or major paper |
Note: for purposes of exemplification, what follows is one specific offering of this course, focused on the topic of plagiarism

V. Topical Course Outline

A. Definitions and Perspectives
   1. Legal and historical definitions
   2. Academic definitions
   3. Literary definitions
   4. Cultural perspectives

B. Issues and concepts
   1. Authorship
   2. Intertextuality
   3. Fair use
   4. Public domain
   5. Copyright laws

C. Practices and places
   1. The marketplace
   2. Writing centers, collaboration, and peer writing groups
   3. Plagiarism detection software
   4. E-cheating and self-plagiarism
   5. Classroom policies

D. Perceptions
   1. Public perceptions
   2. Student perceptions
   3. Institutional and faculty perceptions
   4. Disciplinary perceptions

VI. Suggested Texts


<table>
<thead>
<tr>
<th>1a. School or College</th>
<th>1b. Division</th>
<th>1c. Department</th>
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<tr>
<td>AS CAS</td>
<td>AHUM Division of Humanities</td>
<td>English</td>
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<table>
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<tr>
<th>2. Course Prefix</th>
<th>3. Course Number</th>
<th>4. Previous Course Prefix &amp; Number</th>
<th>5a. Credits/CEUs</th>
<th>5b. Contact Hours (Lecture + Lab)</th>
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<tr>
<td>ENGL</td>
<td>A491</td>
<td>n/a</td>
<td>1.0-3.0</td>
<td>(1-3+0)</td>
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6. Complete Course Title

**Topics in Composition & Rhetoric**

7. Type of Course

- ☑ Academic
- □ Preparatory/Development
- □ Non-credit
- □ CEU
- □ Professional Development

8. Type of Action:

- □ Add
- □ Change
- ☑ Delete

If a change, mark appropriate boxes:

- □ Prefix
- □ Credits
- □ Title
- □ Grading Basis
- □ Course Description
- □ Test Score Prerequisites
- □ Other Restrictions
- □ Class
- □ Level
- □ College
- □ Major
- □ Other (please specify)

9. Repeat Status

- Yes
- # of Repeats: 1
- Max Credits

10. Grading Basis

- ☑ A-F
- □ P/NP
- □ NG

11. Implementation Date

- From: Fall /2014
- To: 9999/9999

12. Cross Listed with

- ☑ Stacked with

13a. Impacted Courses or Programs:

List any programs or college requirements that require this course.

Please type into fields provided in table. If more than three entries, submit a separate table. A template is available at www.uaa.alaska.edu/governance.

<table>
<thead>
<tr>
<th>Impacted Program/Course</th>
<th>Date of Coordination</th>
<th>Chair/Coordinator Contacted</th>
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<tbody>
<tr>
<td>1. Honors in English</td>
<td>09/20/2013</td>
<td>Daniel Kline, Department of English Chair</td>
</tr>
<tr>
<td>2. English Major</td>
<td>09/20/2013</td>
<td>Daniel Kline, Department of English Chair</td>
</tr>
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</table>

13b. Coordination Email

- Date: 09/20/2013
- Submitted to Faculty Listserv: (uaa-faculty@lists.uaa.alaska.edu)

13c. Coordination with Library Liaison

- Date: 09/20/2013

14. General Education Requirement

Mark appropriate box:

- □ Oral Communication
- □ Written Communication
- □ Quantitative Skills
- □ Humanities
- □ Fine Arts
- □ Social Sciences
- □ Natural Sciences
- □ Integrative Capstone

15. Course Description

(suggested length 20 to 50 words)

Studying composition and rhetoric as an academic field with a focus on theories, issues, perspectives, and activities around which the field organizes itself. Examples include the study of Composition Theory and Pedagogy, Computers and Teaching Composition, and Origins of Rhetoric.

Special Note: Applies once toward Rhetoric and Language theory requirement for Rhetoric Option; may be repeated once with change of subtitle for elective credit.

16a. Course Prerequisite(s)

- (list prefix and number or test code and score)
- C or better in ENGL A211, A212, or A213

16b. Co-requisite(s)

- (concurrent enrollment required)
- n/a

16c. Other Restriction(s)

- College
- Major
- Class
- Level

16d. Registration Restriction(s)

- (non-codable)
- n/a

17. Mark if course has fees

18. Mark if course is a selected topic course

19. Justification for Action

ENGL A490 has been revised to include composition and rhetoric, making this course unnecessary.
<table>
<thead>
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<th>Date</th>
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<th>Disapproved</th>
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<th>Date</th>
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<th>Disapproved</th>
<th>Undergraduate/Graduate Academic Board Chair</th>
<th>Date</th>
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<td>College/School Curriculum Committee Chair</td>
<td>Date</td>
<td>Approved</td>
<td>Disapproved</td>
<td>Provost or Designee</td>
<td>Date</td>
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</table>
### 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  
AS CAS

1b. Department  
English

2. Complete Program Title/PREFIX  
Bachelor of Arts, English Minor/ENGL

3. Type of Program  
Choose one from the appropriate drop down menu:  
- Undergraduate: Minor  
- Graduate: CHOOSE ONE

This program is a Gainful Employment Program:  
- [ ] Yes  
- [x] No

4. Type of Action:  
- [ ] PROGRAM  
- [x] PREFIX
  - [x] Add  
  - [ ] Change  
  - [ ] Delete  
  - [ ] Inactivate

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

6a. Coordination with Affected Units  
Department, School, or College: English

Initiator Name (typed): Jennifer Stone  
Initiator Signed Initials:  
Date:

6b. Coordination Email submitted to Faculty Listserv ([uaa-faculty@lists.uaa.alaska.edu](mailto:uaa-faculty@lists.uaa.alaska.edu))  
Date: 09/20/2013

6c. Coordination with Library Liaison  
Date: 09/20/2013

7. Title and Program Description - Please attach the following:  
- [x] Cover Memo  
- [x] Catalog Copy in Word using the track changes function

8. Justification for Action  
Merging ENGL A490 and A491, which has resulted in changes in catalog copy

Initiator (faculty only)  
Jennifer Stone  
Date

Initiator (TYPE NAME)  
Date

Approved  
Disapproved  
Dean/Director of School/College  
Date

Approved  
Disapproved  
Undergraduate/Graduate Academic Board Chair  
Date

Approved  
Disapproved  
Provost or Designee  
Date
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  
AS CAS

1b. Department  
English

2. Complete Program Title/Prefix  
Bachelor of Arts, English/ENGL

3. Type of Program  
Choose one from the appropriate drop down menu:  
Undergraduate: or Graduate:  
Bachelor of Arts or CHOOSE ONE

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

4. Type of Action:  
PROGRAM  
☐ Add  
☒ Change  
☐ Delete

PREFIX  
☐ Add  
☐ Change  
☐ Inactivate

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

6a. Coordination with Affected Units  
Department, School, or College: English

Initiator Name (typed): Jennifer Stone  
Initiator Signed Initials: _________  
Date:________________

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Date: 09/20/2013

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Date: 09/20/2013

7. Title and Program Description - Please attach the following:  
☒ Cover Memo  
☒ Catalog Copy in Word using the track changes function

8. Justification for Action  
Merging ENGL A490 and A491, which has resulted in changes in catalog copy

Jennifer Stone  
Initiator (faculty only)  
Date

☐ Approved  
☐ Disapproved  
Dean/Director of School/College  
Date

☐ Approved  
☐ Disapproved  
Undergraduate/Graduate Academic  
Board Chair  
Date

☐ Approved  
☐ Disapproved  
Provost or Designee  
Date
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The English Department’s mission is to prepare students to succeed in an increasingly diverse world. The department is devoted to an innovative curriculum that encourages lifelong learning, critical thinking, and effective writing. We teach students to see textual work as an engagement with history, convention, culture, and place so that they can participate responsibly in changing regional and challenging global environments. In particular, the department is concerned with Alaskan cultures, the North Pacific Rim environment, and the intersection of networked technologies and forms of textuality. The English Department also strives to familiarize students with a full range of literacies – written, digital, and visual – so that they may become active and well-equipped citizens.

To address this mission, the Department offers three emphases in the undergraduate major: Literature, Rhetoric and Language, and Secondary Education.

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The Department also provides a variety of minors (Literature, Linguistics, Professional Writing, and Creative Writing and Literary Arts). The Literature minor enhances the experience of students majoring in other subjects by providing a study of significant authors and literary works as well as by developing skills in writing and critical analysis. The Professional Writing minor prepares students to interpret and present complex information in a readable form to various audiences using a variety of media. The Linguistics minor is designed for non-English majors who wish to build a foundation in linguistic studies for complementary majors, such as Anthropology and Languages, and for those who are interested in the study and teaching of languages. The Creative Writing and Literary Arts minor allows students to explore the crafts of fiction, literary nonfiction, poetry and dramatic writing in an intensive series of workshops taught by active writers in the genres.

For information on English placement tests, transfer credits, petition procedures, or special registration, contact the English Department.

**Bachelor of Arts, English**

**Program Student Learning Outcomes**

All options prepare majors to conduct research in the discipline and to write for a variety of purposes and audiences. In addition, each option offers the opportunity to earn honors in English. The specific student learning outcomes that support the undergraduate program objectives are to produce graduates who are able to:

- Read closely,
- Interpret texts analytically,
- Conduct research effectively,
- Weigh evidence critically, and
- Write coherently

**Admission Requirements**

Complete the Baccalaureate Degree Programs Admission Requirements at the beginning of Chapter 7.

**Graduation Requirements**

Students must complete the following graduation requirements:

**A. General University Requirements**

Complete the General University Requirements for 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 working toward a degree in English may choose from three options: Literature, Rhetoric and Language, or Secondary Education.

1. Complete the following core courses (18 credits):

   - ENGL A201 Masterpieces of World Literature I 3
   - ENGL A202 Masterpieces of World Literature II 3
   - ENGL A351 Poetry 3
   - ENGL A433 Literacy, Rhetoric, and Social Practice 3
   - ENGL A435 History of Criticism 3
   - ENGL A476 History of English Language 3

2. Complete one of the following options:

   Literature Option (24 credits)

   Complete 3 credits from national literature:
   - ENGL A301 Literature of Britain I (3)
   - ENGL A302 Literature of Britain II (3)
   - ENGL A305 National Literatures in English (3)
   - ENGL A306 Literature of the United States I (3)
   - ENGL A307 Literature of the United States II (3)
   - ENGL A309 Texts of American Subcultures & Regions (3)

   Complete 3 credits from one period and 6 from the other period:
   - Earlier
     - ENGL A310 Ancient Literature (3)
     - ENGL A315 Survey of Medieval Literature (3)
     - ENGL A320 Renaissance Literature (3)
     - ENGL A325 Neoclassical Literature (3)
   - Later
     - ENGL A330 Literature of Romanticism (3)
     - ENGL A340 The Victorian Period (3)
     - ENGL A343 Modern and Contemporary Literature (3)
     - ENGL A440 Topics in Comparative Literature (3)

   Complete 3 credits from genre:
   - ENGL A361 The Novel (3)
   - ENGL A363 Short Story (3)
   - ENGL A371 Narrative Nonfiction (3)
   - ENGL A381 Drama (3)
   - ENGL A383 Film Interpretation (3)
   - ENGL A391 Genres of Subject and Theme (3)

   Complete 6 credits from specialized studies:
   - ENGL A424 Shakespeare 3
   - and one of the following: 3
     - ENGL A429 Major Authors (3)
     - ENGL A444 Topics in Native Literatures (3)
     - ENGL A445 Alaska Native Literatures (3)

   Complete 3 credits upper-division English or Creative
Writing and Literary Arts elective:  3

**Rhetoric and Language Option (24 credits)**

Complete 6 credits from nature of language:
- LING A101 The Nature of Language  3
- LING A201 Intermediate Grammar  3

Complete 6 credits from advanced composition:
- ENGL A311 Advanced Composition (3)
- ENGL A312 Advanced Technical Writing (3)
- ENGL A313 Professional Writing (3)
- ENGL A414 Research Writing (3)

Complete 3 credits from applied linguistics:
- ENGL A450 Linguistics and English Language Teaching (3)
- ENGL A487 Standard Written English (3)
- ENGL A495 Internship in Professional Writing (1-6)

Complete 3 credits from rhetoric and language theory:
- ENGL A475 Modern Grammar (3)
- ENGL A478 Public Science Writing (3)
- ENGL A490 Topics in English Studies (3)*
  *Counts for rhetoric and language theory requirement only when focus is on language, rhetoric, or composition

Complete 6 credits upper-division electives:
- One upper division Rhetoric course (3)
- One upper division English or Creative Writing and Literary Arts elective (3)

**Secondary Education Option (24 credits)**

Complete 12 credits from reading and literature:
- ENGL A424 Shakespeare  3
  *and one of the following:*
  - ENGL A361 The Novel (3)
  - ENGL A363 Short Story (3)
  - ENGL A371 Narrative Nonfiction (3)
  - ENGL A381 Drama (3)
  - ENGL A383 Film Interpretation (3)
  - ENGL A391 Genres of Subject and Theme (3)
  *and one of the following:*
  - ENGL A306 Literature of the United States I (3)
  - ENGL A307 Literature of the United States II (3)
  *and one of the following:*
  - ENGL A305 National Literatures in English (3)
  - ENGL A309 Texts of American Subcultures & Regions (3)
  - ENGL A343 Modern and Contemporary Literature (3)
  - ENGL A440 Topics in Comparative Literature (3)
  - ENGL A444 Topics in Native Literatures (3)
  - ENGL A445 Alaska Native Literatures (3)

Complete 3 credits from language and composition:
- ENGL A311 Advanced Composition (3)
- ENGL A312 Advanced Technical Writing (3)
- ENGL A313 Professional Writing (3)
- ENGL A414 Research Writing (3)
- ENGL A490 Topics in English Studies (3)*
Complete 9 credits from language development and analysis:

- LING A101 The Nature of Language 3
- LING A201 Intermediate Grammar 3
- ENGL A450 Linguistics and English Language Teaching 3

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

**Honors in English**

The Department of English recognizes exceptional undergraduate students by awarding them departmental honors in English. To graduate with departmental honors, the student must be a declared English major, satisfy all requirements for a BA degree in English (Literature, Rhetoric, or Secondary Education option), and, in addition, fulfill the following:

1. Meet the requirements for Graduation with Honors as listed in Chapter 7.
2. Maintain a GPA of 3.50 in all courses in the English major.
3. Complete 6 credits of the following 400-level topics courses with a grade of A:
   - ENGL A429 Major Authors (3)
   - ENGL A440 Topics in Comparative Literature (3)
   - ENGL A444 Topics in Native Literatures (3)
   - ENGL A490 Topics in English Studies (3)*
4. Successfully complete ENGL A499 (with success defined as an A for the honors thesis).

The honors thesis itself is shaped by these guidelines:

1. A student wishing to undertake an English Honors Thesis should coordinate the process from the beginning with two faculty members (one considered primary, one secondary), one of whom must be a full-time tenure-track member of the English department.
2. The secondary faculty member may be from another department with the approval of the primary faculty member. Both faculty members should be involved in the project from early in the process.
3. The student is responsible for locating the two faculty members and securing their agreement to become involved in the project.
4. The student should meet regularly (about once every couple of weeks) with the primary faculty member guiding the thesis to ensure that the project remains on track.
5. The student may well benefit from concurrent enrollment in ENGL A414: Research Writing.
6. The process should begin with a proposal of no more than 1000 words (statement of purpose, preliminary controlling generalization, and outline) along with an annotated bibliography of about ten items. This proposal needs to be approved by both faculty members before the student may proceed to write the honors thesis itself.
7. The anticipated length of the project is 7,500-10,000 words (exclusive of reference page[s]).
8. The final paper needs to be submitted to the two faculty members by the end of the last week of instruction of the semester during which the student is enrolled in ENGL A499.
9. The project should be undertaken in a student’s senior year.
10. Successful completion of ENGL A499 (with success defined as an A for the honors thesis ) may be used to count for three (3) credits toward the seven (7) credit requirement of the University Honors Project.

**Minor, English**

The Department of English offers a minor in English with an emphasis in Literature, Linguistics, or Professional Writing. A total of 18 credits is required for the minor.

Students majoring in another subject who wish to minor in English must complete the following requirements.

**Linguistics Emphasis**

1. Complete these required courses (6 credits):
   - LING A101 The Nature of Language (3)
   - LING A201 Intermediate Grammar (3)
2. Complete 12 credits from the following:
   - ANTH A210 Introduction to Linguistic Anthropology (3)
   - ANTH A361 Language and Culture (3)
ENGL A450 Linguistics and English Language Teaching (3)
ENGL A475 Modern Grammar (3)
ENGL A476 History of English Language (3)
ENGL A487 Standard Written English (3)
ENGL A490 Topics in English Studies (3)*

*Counts for Linguistics Minor only when focus is on language.

**Literature Emphasis**
ENGL A201 Masterpieces of World Literature I 3
ENGL A202 Masterpieces of World Literature II 3
ENGL A351 Poetry 3
ENGL A424 Shakespeare 3
ENGL A435 History of Criticism 3

Upper division English elective 3

**Professional Writing Emphasis**

One of the following: 3
ENGL A212 Technical Writing (3)
ENGL A213 Writing in the Social and Natural Sciences (3)
ENGL A214 Persuasive Writing (3)

Two of the following: 6
ENGL A311 Advanced Composition (3)
ENGL A312 Advanced Technical Writing (3)
ENGL A313 Professional Writing (3)

One of the following: 3
ENGL A414 Research Writing (3)
ENGL A495 Internship in Professional Writing (1-6)

And both of the following:
ENGL A433 Literacy, Rhetoric, & Social Practice 3
Upper division elective approved by the English Department 3

**Minor, Creative Writing and Literary Arts**

Students who wish to minor in Creative Writing and Literary Arts must complete the following requirements:

1. CWLA A260 Introduction to Creative Writing 3
2. One of the following: 3
   CWLA A352 Writers’ Workshop: Poetry (3)
   CWLA A362 Writers’ Workshop: Fiction (3)
   CWLA A372 Writers’ Workshop: Nonfiction (3)
   CWLA A382 Writers’ Workshop: Drama and Screenwriting (3)

3. One of the following: 3
   ENGL A351 Poetry (3)
   ENGL A361 The Novel (3)
   ENGL A363 Short Story (3)
   ENGL A371 Narrative Nonfiction (3)
   ENGL A381 Drama (3)
   ENGL A383 Film Interpretation (3)

4. One 300- or 400-level literature course. 3
5. One of the following: 3
   CWLA A452 Advanced Writers’ Workshop: Poetry (3)
   CWLA A462 Advanced Writers’ Workshop: Fiction (3)
6. One 300- or 400-level workshop (in a different genre) or one of the following:

- CWLA A259 Short Format Introduction to Creative Writing (repeatable twice with a change in subtitle) (1-3)
- CWLA A260 Introduction to Creative Writing (repeatable once) (3)
- ENGL A495 Internship in Professional Writing (1-6)

7. A total of 18 credits is required for the minor.

**FACULTY**

Aisha Barnes, Term Instructor, aabarnes@uaa.alaska.edu
Douglass Bourne, Term Instructor, dabourne@uaa.alaska.edu
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Emily Brackman, Term Instructor, embrackman@uaa.alaska.edu
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Michael Lamb, Term Instructor, mlamb1@uaa.alaska.edu
Patricia Linton, Professor, plinton@uaa.alaska.edu
Judith Moore, Professor Emerita, jkmoore@uaa.alaska.edu
Jessie Nixon, Term Instructor, jnnixon@uaa.alaska.edu
Clay Nunnally, Professor, cjenunnally@uaa.alaska.edu
Gabrielle Raffuse, Term Instructor, gsraffuse@uaa.alaska.edu
Jennifer Stone, Associate Professor, jstone32@uaa.alaska.edu
Claudia Wallingford, Term Instructor, cswallingford@uaa.alaska.edu
Toby Widdicombe, Professor, rtwiddicombe@uaa.alaska.edu
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**Admission Requirements**

Complete the Baccalaureate Degree Programs Admission Requirements at the beginning of Chapter 7.

**Graduation Requirements**

Students must complete the following graduation requirements:

**A. General University Requirements**

Complete the General University Requirements for 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 working toward a degree in English may choose from three options: Literature, Rhetoric and Language, or Secondary Education.

1. Complete the following core courses (18 credits):
   - ENGL A201 Masterpieces of World Literature I 3
   - ENGL A202 Masterpieces of World Literature II 3
   - ENGL A351 Poetry 3
   - ENGL A433 Literacy, Rhetoric, and Social Practice 3
   - ENGL A435 History of Criticism 3
   - ENGL A476 History of English Language 3

2. Complete one of the following options:

   Literature Option (24 credits)

   Complete 3 credits from national literature: 3
   - ENGL A301 Literature of Britain I (3)
   - ENGL A302 Literature of Britain II (3)
   - ENGL A305 National Literatures in English (3)
   - ENGL A306 Literature of the United States I (3)
   - ENGL A307 Literature of the United States II (3)
   - ENGL A309 Texts of American Subcultures & Regions (3)

   Complete 3 credits from one period and 6 from the other period: 9
   - Earlier
     - ENGL A310 Ancient Literature (3)
     - ENGL A315 Survey of Medieval Literature (3)
     - ENGL A320 Renaissance Literature (3)
     - ENGL A325 Neoclassical Literature (3)
   - Later
     - ENGL A330 Literature of Romanticism (3)
     - ENGL A340 The Victorian Period (3)
     - ENGL A343 Modern and Contemporary Literature (3)
     - ENGL A440 Topics in Comparative Literature (3)

   Complete 3 credits from genre: 3
   - ENGL A361 The Novel (3)
   - ENGL A363 Short Story (3)
   - ENGL A371 Narrative Nonfiction (3)
   - ENGL A381 Drama (3)
   - ENGL A383 Film Interpretation (3)
   - ENGL A391 Genres of Subject and Theme (3)

   Complete 6 credits from specialized studies:
   - ENGL A424 Shakespeare (3)
   - and one of the following: 3
     - ENGL A429 Major Authors (3)
     - ENGL A444 Topics in Native Literatures (3)
     - ENGL A445 Alaska Native Literatures (3)
   - Complete 3 credits upper-division English or Creative
Writing and Literary Arts elective: 3

**Rhetoric and Language Option (24 credits)**

Complete 6 credits from nature of language:
- LING A101 The Nature of Language 3
- LING A201 Intermediate Grammar 3

Complete 6 credits from advanced composition:
- ENGL A311 Advanced Composition (3)
- ENGL A312 Advanced Technical Writing (3)
- ENGL A313 Professional Writing (3)
- ENGL A414 Research Writing (3)

Complete 3 credits from applied linguistics:
- ENGL A450 Linguistics and English Language Teaching (3)
- ENGL A495 Internship in Professional Writing (1-6)

Complete 3 credits from rhetoric and language theory:
- ENGL A475 Modern Grammar (3)
- ENGL A478 Public Science Writing (3)
- ENGL A490 Topics in English Studies/Topics in Composition and Rhetoric (3)*

*Counts for rhetoric and language theory requirement only when focus is on language, rhetoric, or composition

Complete 6 credits upper-division electives: 6
- One upper division Rhetoric course (3)
- One upper division English or Creative Writing and Literary Arts elective (3)

**Secondary Education Option (24 credits)**

Complete 12 credits from reading and literature:
- ENGL A424 Shakespeare 3
- ENGL A361 The Novel (3)
- ENGL A363 Short Story (3)
- ENGL A371 Narrative Nonfiction (3)
- ENGL A381 Drama (3)
- ENGL A383 Film Interpretation (3)
- ENGL A391 Genres of Subject and Theme (3)

Complete 3 credits from language and composition:
- ENGL A311 Advanced Composition (3)
- ENGL A312 Advanced Technical Writing (3)
- ENGL A313 Professional Writing (3)

ENGL A414 Research Writing (3)
ENGL A490 Topics in English Studies Topics in Composition and Rhetoric (3)*

*Counts for language and composition requirement only when focus is on language or composition.

Complete 9 credits from language development and analysis:
- LING A101 The Nature of Language 3
- LING A201 Intermediate Grammar 3
- ENGL A450 Linguistics and English Language Teaching 3

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

**Honors in English**

The Department of English recognizes exceptional undergraduate students by awarding them departmental honors in English. To graduate with departmental honors, the student must be a declared English major, satisfy all requirements for a BA degree in English (Literature, Rhetoric, or Secondary Education option), and, in addition, fulfill the following:

1. Meet the requirements for Graduation with Honors as listed in Chapter 7.
2. Maintain a GPA of 3.50 in all courses in the English major.
3. Complete 6 credits of the following 400-level topics courses with a grade of A:
   - ENGL A429 Major Authors (3)
   - ENGL A440 Topics in Comparative Literature (3)
   - ENGL A444 Topics in Native Literatures (3)
   - ENGL A490 Topics in Language and Literature; Topics in English Studies (LaR)**
   - ENGL A491 Topics in Composition and Rhetoric (3)
4. Successfully complete ENGL A499 (with success defined as an A for the honors thesis).

The honors thesis is shaped by these guidelines:

1. A student wishing to undertake an English Honors Thesis should coordinate the process from the beginning with two faculty members (one considered primary, one secondary), one of whom must be a full-time tenure-track member of the English department.
2. The secondary faculty member may be from another department with the approval of the primary faculty member. Both faculty members should be involved in the project from early in the process.
3. The student is responsible for locating the two faculty members and securing their agreement to become involved in the project.
4. The student should meet regularly (about once every couple of weeks) with the primary faculty member guiding the thesis to ensure that the project remains on track.
5. The student may well benefit from concurrent enrollment in ENGL A414: Research Writing.
6. The process should begin with a proposal of no more than 1000 words (statement of purpose, preliminary controlling generalization, and outline) along with an annotated bibliography of about ten items. This proposal needs to be approved by both faculty members before the student may proceed to write the honors thesis itself.
7. The anticipated length of the project is 7,500-10,000 words (exclusive of reference page[s]).
8. The final paper needs to be submitted to the two faculty members by the end of the last week of instruction of the semester during which the student is enrolled in ENGL A499.
9. The project should be undertaken in a student’s senior year.
10. Successful completion of ENGL A499 (with success defined as an A for the honors thesis) may be used to count for three (3) credits toward the seven (7) credit requirement of the University Honors Project.

**Minor, English**

The Department of English offers a minor in English with an emphasis in Literature, Linguistics, or Professional Writing. A total of 18 credits is required for the minor.

Students majoring in another subject who wish to minor in English must complete the following requirements.

**Linguistics Emphasis**

1. Complete these required courses (6 credits):
   - LING A101 The Nature of Language (3)
   - LING A201 Intermediate Grammar (3)
2. Complete 12 credits from the following:  

ANTH A210 Introduction to Linguistic Anthropology (3)  
ANTH A361 Language and Culture (3)  
ENGL A450 Linguistics and English Language Teaching (3)  
ENGL A475 Modern Grammar (3)  
ENGL A476 History of English Language (3)  
ENGL A487 Standard Written English (3)  
ENGL A490 Topics in English Studies: Topics in Language and Literature (1-3)*  

*Counts for Linguistics Minor only when focus is on language.

**Literature Emphasis**

ENGL A201 Masterpieces of World Literature I 3  
ENGL A202 Masterpieces of World Literature II 3  
ENGL A351 Poetry 3  
ENGL A442 Shakespeare 3  
ENGL A435 History of Criticism 3  
Upper division English elective 3

**Professional Writing Emphasis**

One of the following: 3  

ENGL A212 Technical Writing (3)  
ENGL A213 Writing in the Social and Natural Sciences (3)  
ENGL A214 Persuasive Writing (3)  

Two of the following: 6  

ENGL A312 Advanced Composition (3)  
ENGL A312 Advanced Technical Writing (3)  
ENGL A313 Professional Writing (3)  

One of the following: 3  

ENGL A414 Research Writing (3)  
ENGL A495 Internship in Professional Writing (1-6)  

And both of the following: 3  

ENGL A351 Poetry (3)  
ENGL A361 The Novel (3)  
ENGL A363 Short Story (3)  
ENGL A371 Narrative Nonfiction (3)  
ENGL A381 Drama (3)  
ENGL A383 Film Interpretation (3)

**Minor, Creative Writing and Literary Arts**

Students who wish to minor in Creative Writing and Literary Arts must complete the following requirements:  

1. CWLA A260 Introduction to Creative Writing 3  
2. One of the following: 3  
   CWLA A352 Writers' Workshop: Poetry (3)  
   CWLA A362 Writers' Workshop: Fiction (3)  
   CWLA A372 Writers' Workshop: Nonfiction (3)  
   CWLA A382 Writers' Workshop: Drama and Screenwriting (3)  
3. One of the following: 3  
   ENGL A351 Poetry (3)  
   ENGL A361 The Novel (3)  
   ENGL A363 Short Story (3)  
   ENGL A371 Narrative Nonfiction (3)  
   ENGL A381 Drama (3)  
   ENGL A383 Film Interpretation (3)  
4. One 300- or 400-level literature course. 3
5. One of the following:  
   - CWLA A452  Advanced Writers' Workshop: Poetry (3)
   - CWLA A462  Advanced Writers' Workshop: Fiction (3)
   - CWLA A472  Advanced Writers' Workshop: Nonfiction (3)
   - CWLA A482  Advanced Writers' Workshop: Drama and Screenwriting (3)

6. One 300- or 400-level workshop (in a different genre) or one of the following:  
   - CWLA A259 Short Format Introduction to Creative Writing (repeatable twice with a change in subtitle) (1-3)
   - CWLA A260 Introduction to Creative Writing (repeatable once) (3)
   - ENGL A495 Internship in Professional Writing (1-6)

7. A total of 18 credits is required for the minor.

FACULTY

Aisha Barnes, Term Instructor, aabarnes@uaa.alaska.edu
Douglass Bourne, Term Instructor, dabourne@uaa.alaska.edu
David Bowe, Assistant Professor, david.bowie@uaa.alaska.edu
Emily Brackman, Term Instructor, ebrackman@uaa.alaska.edu
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Claudia Wallingford, Term Instructor, cswallingford@uaa.alaska.edu
Toby Widdicombe, Professor, twiddicombe@uaa.alaska.edu
### Course Action Request

**University of Alaska Anchorage**  
Proposal to Initiate, Add, Change, or Delete a Course

<table>
<thead>
<tr>
<th>1a. School or College</th>
<th>1b. Division</th>
<th>1c. Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS CAS</td>
<td>AMSC Division of Math Science</td>
<td>Physics</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2. Course Prefix</th>
<th>3. Course Number</th>
<th>4. Previous Course Prefix &amp; Number</th>
<th>5a. Credits/CEUs</th>
<th>5b. Contact Hours (Lecture + Lab)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS</td>
<td>A123L</td>
<td>NA</td>
<td>1</td>
<td>(0+3)</td>
</tr>
</tbody>
</table>

**6. Complete Course Title**  
Basic Physics I Laboratory

**Abbreviated Title for Transcript (30 character)**

**7. Type of Course**  
- [x] Academic  
- [ ] Preparatory/Development  
- [ ] Non-credit  
- [ ] CEU  
- [ ] Professional Development

**8. Type of Action:**  
- [ ] Add  
- [x] Change  
- [ ] Delete

**9. Repeat Status No # of Repeats Max Credits**

**10. Grading Basis**  
- [x] A-F  
- [ ] P/NP  
- [ ] NG

**11. Implementation Date**  
- semester/year  
- From: Fall/2014  
- To: /9999

**12. [ ] Cross Listed with NA**  
- [ ] Stacked with NA

**13a. Impacted Courses or Programs:** List any programs or college requirements that require this course.  
Please type into fields provided in table. If more than three entries, submit a separate table. A template is available at www.uaa.alaska.edu/governance.

**13b. Coordination Email**  
submitted to Faculty Listserv: (uas-faculty@lists.uaa.alaska.edu)

**13c. Coordination with Library Liaison**  
Date: 12-02-13

**14. General Education Requirement**  
Mark appropriate box:
- [ ] Oral Communication  
- [ ] Written Communication  
- [ ] Quantitative Skills  
- [ ] Humanities  
- [ ] Fine Arts  
- [ ] Social Sciences  
- [x] Natural Sciences  
- [ ] Integrative Capstone

**15. Course Description** *(suggested length 20 to 50 words)*  
Introductory physics laboratory with experiments in mechanics, fluids, and thermodynamics.

**16a. Course Prerequisite(s)** *(list prefix and number or test code and score)*  
MATH A105 and [PHYS A123 with a minimum grade of C or concurrent enrollment].

**16b. Co-requisite(s)** *(concurrent enrollment required)*  
NA

**16c. Other Restriction(s)**
- [ ] College  
- [ ] Major  
- [ ] Class  
- [ ] Level

**16d. Registration Restriction(s)** *(non-codable)*  
If the equivalent of PHYS A123 is taken from another institution, it must be completed prior to taking PHYS A123L.

**17. [x] Mark if course has fees**  
- [ ] Mark if course is a selected topic course

**19. Justification for Action**  
To update course and clarify expectations for a physics lab course.

**Initiator** *(faculty only)*  
J. Pantaleone  
Initiator Signed Initials: _________  
Date: ___________

**Department Chair**  
Date: ___________

**College/School Curriculum Committee Chair**  
Date: ___________

**Dean/Director of School/College**  
Date: ___________

**Provost or Designee**  
Date: ___________

---

**Course Action Request**  
University of Alaska Anchorage  
Proposal to Initiate, Add, Change, or Delete a Course
I. Date of Initiation: November 20, 2013

II. Course Information

1. College: CAS
2. Course Subject: PHYS
3. Course Number: A123L
4. Number of Credits: 1
5. Number of Contact Hours: 0+3
6. Course Title: Basic Physics I Laboratory
7. Grading Basis: A-F
8. Course Description:
   Introductory physics laboratory with experiments in mechanics, fluids, and thermodynamics.
9. Course Prerequisite:
   MATH A105 and [PHYS A123 with a minimum grade of C or concurrent enrollment].
10. Registration Restriction:
    If the equivalent of PHYS A123 is taken from another institution, it must be completed prior to taking PHYS A123L.
11. Fees: yes

III. Instructional Goals and Student Learning Outcomes

1. Instructional Goals
   1. To help students understand the scientific method: that the basis of knowledge in science is experiments.
   2. To reinforce the concepts covered in the PHYS A123 lecture.
   3. To provide each student with hands-on use of the modern tools for doing experimental physics and in the settings encountered by professionals in the discipline. The tools to be used include computerized data collection equipment with sensors such as sonic range finders, force sensors and video analysis. The instructor will provide hands-on supervision of the student's use of these tools in a laboratory setting.
   4. To provide the student with hands-on use of modern data analysis tools. These include using computers for graphing, curve fitting, modeling and statistical analysis.
5. To provide the student with an appreciation of uncertainties in measured quantities and uncertainty analysis techniques.
6. To help students develop collaborative learning skills in the investigation of physical phenomena. The instructor will provide hands-on supervision and guidance to students working in small groups in a laboratory setting.
7. To provide opportunities for students to gain familiarity and experience with the equipment and procedures of a college level physics laboratory.

2. Student Learning Outcomes and Assessment Measures

The students in this physics lab course will be able to

<table>
<thead>
<tr>
<th>Outcomes</th>
<th>Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>design and conduct experiments and draw inferences from their observations.</td>
<td>Weekly lab reports.</td>
</tr>
<tr>
<td>demonstrate competency applying Newton's laws to physical situations.</td>
<td>Weekly lab reports and hands-on exams.</td>
</tr>
<tr>
<td>demonstrate the ability to work hands-on with up-to-date physics tools.</td>
<td>Performance in a laboratory setting.</td>
</tr>
<tr>
<td>demonstrate competency in using computers to analyze data.</td>
<td>Weekly lab reports and hands-on exams.</td>
</tr>
<tr>
<td>estimate the uncertainty in all physical measurements and propagate this uncertainty to their final, calculated results.</td>
<td>Weekly lab reports and exams.</td>
</tr>
<tr>
<td>collaborate in small groups to set up equipment, take measurements and analyze data.</td>
<td>Performance in a laboratory setting.</td>
</tr>
<tr>
<td>describe the equipment and safety procedures of a college level physics laboratory.</td>
<td>Demonstrated compliance with laboratory safety procedures and correct operation of equipment under the direction of physics laboratory personnel.</td>
</tr>
</tbody>
</table>

IV. Topical Course Outline

Here is a list of experiments typically performed in the course.

1. Lab safety
2. Introduction to Excel
3. Vector addition
4. 2D Kinematics
5. Acceleration of a cart on an inclined plane
6. Acceleration of a sliding box
7. Mystery mass and Atwood’s machine
8. Static equilibrium and mystery meterstick
9. Kinetic energy-work theorem
10. Ballistic pendulum
11. Thermal coefficient of linear expansion
12. Mechanical Equivalent of Heat

V. Suggested Text


VI. Bibliography


1. **School or College**
   AS CAS

2. **Course Prefix**
   PHYS

3. **Course Number**
   A123R

4. **Previous Course Prefix & Number**
   N/A

5a. **Credits/CEUs**
   1

5b. **Contact Hours**
   (Lecture + Lab) (0+1.5)

6. **Complete Course Title**
   Basic Physics I Problem Solving

7. **Type of Course**
   Academic

8. **Type of Action:**
   Add

9. **Repeat Status No**
   # of Repeats
   Max Credits

10. **Grading Basis**
   A-F P/NP NG

11. **Implementation Date**
   semester/year
   From: Fa/2014 To: /9999

12. **Cross Listed with**
   Stacked with
   Cross-Listed Coordination Signature

13a. **Impacted Courses or Programs:**

   Please type into fields provided in table. If more than three entries, submit a separate table. A template is available at www.uaa.alaska.edu/governance.

   **Impacted Program/Course**
   **Date of Coordination**
   **Chair/Coordinator Contacted**

   1.
   2.
   3.

   **Initiator Name (typed): Katherine Rawlins**
   **Initiator Signed Initials:**

   **Date:**

   **13b. Coordination Email**
   Date: 11/26/13
   submitted to Faculty Listserv: (uaa-faculty@lists.uaa.alaska.edu)

   **13c. Coordination with Library Liaison**
   Date: 12/2/13

   **14. General Education Requirement**
   Mark appropriate box:
   Oral Communication
   Written Communication
   Quantitative Skills
   Humanities
   Fine Arts
   Social Sciences
   Natural Sciences
   Integrative Capstone

   **15. Course Description (suggested length 20 to 50 words)**
   Techniques of problem solving for material covered in PHYS A123. Includes student discussion and presentation of solutions.

   **16a. Course Prerequisite(s) (list prefix and number or test code and score)**
   N/A

   **16b. Co-requisite(s) (concurrent enrollment required)**
   PHYS A123

   **16c. Other Restriction(s)**
   N/A

   **16d. Registration Restriction(s) (non-codable)**
   N/A

   **17. Mark if course has fees**

   **18. Mark if course is a selected topic course**

   **19. Justification for Action**
   To assist those needing extra help in PHYS A123, create a low-stress environment in which to discuss and practice problem solving.

   ___________________________________________     ___________
   Initiator (faculty only)         Date
   Katherine Rawlins

   Initiator (TYPE NAME)
   Approved
   Disapproved

   Dean/Director of School/College
   Date

   Undergraduate/Graduate Academic
   Date

   Board Chair
   Date

   Provost or Designee
   Date
I. Date initiated: 11/20/2013

II. Course Information:
   A) College: College of Arts and Sciences  Department: Physics & Astronomy
   B) Course Title: Basic Physics I Problem Solving
   C) Course Prefix/Number: PHYS A123R
   D) Number of credits: 1
   E) Contact hours: 0 + 1.5 (lecture + lab)
   F) Grading Basis: P/NP
   G) Course Description: Techniques of problem solving for material covered in PHYS A123. Includes student discussion and presentation of solutions.
   H) Implementation Date: Fall 2014
   I) Status of course relative to degree programs: not required for any program
   J) Fees: none
   K) Coordination: UAA Faculty Listserv
   L) Corequisite: PHYS A123
   M) Registration restrictions: none

III. Course level justification:
   This course is designed to accompany PHYS A123.

IV. Instructional Goals & Student Learning Outcomes
   A) Instructional Goals
      -- To reinforce the primary topics covered in the PHYS A123 lecture
      -- To help students learn problem solving skills, using example problems
      -- To generally aid and provide guidance to students at risk of poor performance in PHYS A123

   B) Student Learning Outcomes & Assessment Methods
      | The student will… | … as measured by: |
      |-------------------|-----------------|
      | Be exposed to example problems from the topics of PHYS A123 | Class attendance |
      | Gain skills in problem solving | Class participation |

V. Guidelines for Evaluation
A passing grade (P) will be assigned to students who attend and participate in problem solving regularly; a non-passing grade (NP) to students with irregular attendance and lack of participation.
VI. Topical course outline: *same as for corequisite PHYS A123*

VII. Suggested text: *none, as there is already a text for corequisite PHYS A123.*

VIII. Bibliography:


Course Action Request
University of Alaska Anchorage
Proposal to Initiate, Add, Change, or Delete a Course

1a. School or College
   AS CAS

1b. Division
   AMSC Division of Math Science

1c. Department
   Physics

2. Course Prefix
   PHYS

3. Course Number
   A124L

4. Previous Course Prefix & Number
   NA

5a. Credits/CEUs
   1

5b. Contact Hours
   (Lecture + Lab) (0+3)

6. Complete Course Title
   Basic Physics II Laboratory

Abbreviated Title for Transcript (30 character)

7. Type of Course
   ☒ Academic ☐ Preparatory/Development ☐ Non-credit ☐ CEU ☐ Professional Development

8. Type of Action:
   ☒ Add or ☐ Change or ☐ Delete

   If a change, mark appropriate boxes:
   ☐ Prefix ☐ Credits ☐ Contact Hours ☐ Title ☐ Repeat Status
   ☐ Grading Basis ☐ Cross-Listed/Stacked ☐ Course Prerequisites
   ☐ Course Description ☐ Co-requisites ☐ Registration Restrictions
   ☐ Test Score Prerequisites ☐ General Education Requirement
   ☐ Other Restrictions ☐ Class ☐ Level ☐ College ☐ Major
   ☐ Other CCG (please specify)

9. Repeat Status No
   # of Repeats
   Max Credits

10. Grading Basis
    ☒ A-F ☐ P/NP ☐ NG

11. Implementation Date
    semester/year
    From: Fall/2014 To: /9999

12. ☐ Cross Listed with NA Stacked with NA

   Cross-Listed Coordination Signature

13a. Impacted Courses or Programs: List any programs or college requirements that require this course.

   Please type into fields provided in table. If more than three entries, submit a separate table. A template is available at www.uaa.alaska.edu/governance.

   Impacted Program/Course Date of Coordination Chair/Coordinator Contacted
   1. see attached sheet
   2.
   3.

   Initiator Name (typed): J. Pantaleone Initiator Signed Initials: _________ Date: __________

   Initiator (faculty only)

13b. Coordination Email Date: 11-26-13
    submitted to Faculty Listserv: (uaa-faculty@lists.uaa.alaska.edu)

13c. Coordination with Library Liaison Date: 12-02-13

14. General Education Requirement
    Mark appropriate box:
    ☐ Oral Communication ☐ Written Communication ☐ Quantitative Skills ☐ Humanities
    ☐ Fine Arts ☐ Social Sciences ☒ Natural Sciences ☐ Integrative Capstone

15. Course Description (suggested length 20 to 50 words)
    Introductory physics laboratory with experiments in electricity and magnetism, waves, and optics.

16a. Course Prerequisite(s) (list prefix and number or test code and score)
    [PHYS A123 and PHYS A123L] with minimum grades of C and [PHYS A124 with a minimum grade of C or concurrent enrollment].

16b. Co-requisite(s) (concurrent enrollment required)
    NA

16c. Other Restriction(s)
    ☐ College ☐ Major ☐ Class ☐ Level

16d. Registration Restriction(s) (non-codable)
    If the equivalent of PHYS A124 is taken from another institution, it must be completed prior to taking PHYS A124L.

17. ☒ Mark if course has fees

18. ☐ Mark if course is a selected topic course

19. Justification for Action
    To update course and clarify expectations for a physics lab course.

   ____________________________________________________
   Initiator (faculty only) Date

   J. Pantaleone
   Initiator (TYPE NAME)

   Approved
   Disapproved

   Dean/Director of School/College
   Date

   Approved
   Disapproved

   Undergraduate/Graduate Academic
   Board Chair
   Date

   Approved
   Disapproved

   Provost or Designee
   Date
COURSE CONTENT GUIDE

I. Date of Initiation: November 20, 2013

II. Course Information

1. College: CAS
2. Course Subject: PHYS
3. Course Number: A124L
4. Number of Credits: 1
5. Number of Contact Hours: 0+3
6. Course Title: Basic Physics II Laboratory
7. Grading Basis: A-F
8. Course Description:
   Introductory physics laboratory with experiments in electricity and
   magnetism, waves, and optics.

9. Course Prerequisite:
   [PHYS A123 and PHYS A123L] with minimum grades of C and
   [ PHYS A124 with a minimum grade of C or concurrent
   enrollment].

10. Registration Restriction:
    If the equivalent of PHYS A124 is taken from another institution, it
    must be completed prior to taking PHYS A124L.

11. Fees: yes

III. Instructional Goals and Student Learning Outcomes

1. Instructional Goals

   1. To help students understand the scientific method: that the basis of
      knowledge in science is experiments.
   2. To reinforce the concepts covered in the PHYS A124 lecture.
   3. To provide each student with hands-on use of the modern tools for
      doing experimental physics and in the settings encountered by
      professionals in the discipline. The tools to be used include ammeters,
      voltmeters and computerized data collection equipment. The instructor
      will provide hands-on supervision of the student's use of these tools in a
      laboratory setting.
   4. To provide the student with hands-on use of modern data analysis
      tools. These include using computers for graphing, curve fitting,
      modeling and statistical analysis.
   5. To provide the student with an appreciation of uncertainties in
      measured quantities and uncertainty analysis techniques.
6. To help students develop collaborative learning skills in the investigation of physical phenomena. The instructor will provide hands-on supervision and guidance to students working in small groups in a laboratory setting.

7. To provide opportunities for students to gain familiarity and experience with the equipment and procedures of a college level physics laboratory.

### 2. Student Learning Outcomes and Assessment Measures

Students in this Physics lab course will be able to

<table>
<thead>
<tr>
<th>Outcomes</th>
<th>Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>design and conduct experiments and draw inferences from their observations.</td>
<td>Weekly lab reports.</td>
</tr>
<tr>
<td>demonstrate competency applying Maxwell's equations to physical situations.</td>
<td>Weekly lab reports and hands-on exams.</td>
</tr>
<tr>
<td>demonstrate the ability to work hands-on with up-to-date physics tools.</td>
<td>Performance in a laboratory setting.</td>
</tr>
<tr>
<td>demonstrate hands-on competency in using computers to analyze data.</td>
<td>Weekly lab reports and hands-on exams.</td>
</tr>
<tr>
<td>estimate the uncertainty in all physical measurements and will propagate this uncertainty to their final, calculated results.</td>
<td>Weekly lab reports and exams.</td>
</tr>
<tr>
<td>collaborate in small groups to setup equipment, take measurements and analyze data.</td>
<td>Performance in a laboratory setting.</td>
</tr>
<tr>
<td>describe the equipment and safety procedures of a college level physics laboratory.</td>
<td>Demonstrated compliance with laboratory safety procedures and correct operation of equipment under the direction of physics laboratory personnel.</td>
</tr>
</tbody>
</table>

### IV. Topical Course Outline

Here is a list of experiments typically performed in the course.

1. Measuring the Spring Constant
2. Standing Waves on a String
3. Sound
4. Equipotentials and Fields
5. Ohm's Law
6. Circuit Analyses with Light Bulbs
7. Kirchhoff's Rules
8. Electromagnetic Induction
9. Building a DC Motor
10. Reflection and Refraction
11. Spherical Mirrors and Lenses

V. Suggested Text


VI. Bibliography


Course Action Request
University of Alaska Anchorage
Proposal to Initiate, Add, Change, or Delete a Course

1a. School or College
AS CAS

1b. Division
AMSC Division of Math Science

1c. Department
Physics and Astronomy

2. Course Prefix
PHYS

3. Course Number
A124R

4. Previous Course Prefix & Number
N/A

5a. Credits/CEUs
1

5b. Contact Hours
(Lecture + Lab)
(0+1.5)

6. Complete Course Title
Basic Physics II Problem Solving

Abbreviated Title for Transcript (30 character)

7. Type of Course
☒ Academic ☐ Preparatory/Development ☐ Non-credit ☐ CEU ☐ Professional Development

8. Type of Action:
☒ Add ☐ Change ☐ Delete

If a change, mark appropriate boxes:
☐ Prefix ☐ Credits ☐ Course Number ☐ Contact Hours ☐ Repeat Status
☐ Grading Basis ☐ Title ☐ Cross-Listed/Stacked ☐ Course Prerequisites
☐ Course Description ☐ Test Score Prerequisites ☐ Co-requisites
☐ Other Restrictions ☐ Registration Restrictions ☐ General Education Requirement
☐ Class ☐ Level ☐ College ☐ Major ☐ (please specify)

9. Repeat Status No
☒ # of Repeats ☐ Max Credits

10. Grading Basis
☐ A-F ☒ P/NP ☐ NG

11. Implementation Date
semester/year
From: Fa/2014 To: 9999

12. ☐ Cross Listed with
☐ Stacked with
Cross-Listed Coordination Signature

13a. Impacted Courses or Programs:
List any programs or college requirements that require this course.
Please type into fields provided in table. If more than three entries, submit a separate table. A template is available at www.uaa.alaska.edu/governance.

<table>
<thead>
<tr>
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<tbody>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

Initiator Name (typed): Katherine Rawlins  Initiator Signed Initials: ______  Date: __________

13b. Coordination Email
Date: 11/26/13
submitted to Faculty Listserv: (uaa-faculty@lists.uaa.alaska.edu)

13c. Coordination with Library Liaison
Date: 12/2/13

14. General Education Requirement
Mark appropriate box:
☐ Oral Communication ☐ Written Communication ☐ Quantitative Skills ☐ Humanities
☐ Fine Arts ☐ Social Sciences ☐ Natural Sciences ☐ Integrative Capstone

15. Course Description (suggested length 20 to 50 words)
Techniques of problem solving for material covered in PHYS A124. Includes student discussion and presentation of solutions.

16a. Course Prerequisite(s) (list prefix and number or test code and score)
N/A

16b. Co-requisite(s) (concurrent enrollment required)
PHYS A124

16c. Other Restriction(s)
☐ College ☐ Major ☐ Class ☐ Level N/A

16d. Registration Restriction(s) (non-codable)
N/A

17. ☐ Mark if course has fees

18. ☐ Mark if course is a selected topic course

19. Justification for Action
To assist those needing extra help in PHYS A124, create a low-stress environment in which to discuss and practice problem solving.

Initiator (faculty only)
Initiator (TYPE NAME)

☐ Approved ☐ Disapproved

Dean/Director of School/College
Date

Undergraduate/Graduate Academic
Date

Board Chair
Date

Provost or Designee
Date
COURSE CONTENT GUIDE:

I. Date initiated: 11/20/2013

II. Course Information:
   A) College: College of Arts and Sciences   Department: Physics & Astronomy
   B) Course Title: Basic Physics II Problem Solving
   C) Course Prefix/Number: PHYS A124R
   D) Number of credits: 1
   E) Contact hours: 0 + 1.5 (lecture + lab)
   F) Grading Basis: P/NP
   G) Course Description: Techniques of problem solving for material covered in PHYS A124. Includes student discussion and presentation of solutions.
   H) Implementation Date: Fall 2014
   I) Status of course relative to degree programs: not required for any program
   J) Coordination: UAA Faculty Listserv
   K) Corequisite: PHYS A124
   L) Registration restrictions: none

III. Course level justification:
   This course is designed to accompany PHYS A124.

IV. Instructional Goals & Student Learning Outcomes
   A) Instructional Goals
      -- To reinforce the primary topics covered in the PHYS A124 lecture
      -- To help students learn problem solving skills, using example problems
      -- To generally aid and provide guidance to students at risk of poor performance in PHYS A124
   B) Student Learning Outcomes & Assessment Methods
      The student will...
         as measured by:
      Be exposed to example problems from the topics of PHYS A124  Class attendance
      Gain skills in problem solving  Class participation

V. Guidelines for Evaluation
   A passing grade (P) will be assigned to students who attend and participate in problem solving regularly; a non-passing grade (NP) to students with irregular attendance and lack of participation.
VI. Topical course outline: *same as for corequisite PHYS A124*

VII. Suggested text: *none, as there is already a text for corequisite PHYS A124.*

VIII. Bibliography:


# Course Action Request

## University of Alaska Anchorage
Proposal to Initiate, Add, Change, or Delete a Course

<table>
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<td>AS CAS</td>
<td>AMSC Division of Math Science</td>
<td>Physics and Astronomy</td>
</tr>
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</table>

### 2. Course Prefix
PHYS

### 3. Course Number
A211

### 4. Previous Course Prefix & Number
N/A

### 5a. Credits/CEUs
3

### 5b. Contact Hours
(Lecture + Lab)
(3+0)

### 6. Complete Course Title
**General Physics I**

### Abbreviated Title for Transcript (30 character)

### 7. Type of Course
- [x] Academic
- [ ] Preparatory/Development
- [ ] Non-credit
- [ ] CEU
- [ ] Professional Development

### 8. Type of Action:
- [ ] Add
- [x] Change
- [ ] Delete

**If a change, mark appropriate boxes:**
- [ ] Prefix
- [ ] Credits
- [ ] Title
- [ ] Grading Basis
- [x] Course Description
- [ ] Course Prerequisites
- [ ] Test Score Prerequisites
- [ ] Co-requisites
- [ ] Other Restrictions
  - [ ] Class
  - [ ] Level
  - [ ] College
  - [ ] Major
- [x] Other CCG (please specify)

### 9. Repeat Status No

<table>
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<tr>
<th># of Repeats</th>
<th>Max Credits</th>
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</table>

### 10. Grading Basis
- [x] A-F
- [ ] P/NP
- [ ] NG

### 11. Implementation Date
From: Fa/2014
To: /9999

### 12. Cross Listed with
- [ ] Stacked with

**Cross-Listed Coordination Signature**

### 13a. Impacted Courses or Programs:
List any programs or college requirements that require this course.

Please type into fields provided in table. If more than three entries, submit a separate table. A template is available at [www.uaa.alaska.edu/governance](http://www.uaa.alaska.edu/governance).

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<td></td>
</tr>
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</table>

**Initiator Name (typed): Katherine Rawlins**
**Initiator Signed Initials:** ______
**Date:**

### 13b. Coordination Email
submitted to Faculty Listserv: (uaa-faculty@lists.uaa.alaska.edu)

**Date:** 11/26/13

### 13c. Coordination with Library Liaison
**Date:** 12/2/13

### 14. General Education Requirement
- [ ] Oral Communication
- [ ] Written Communication
- [ ] Quantitative Skills
- [x] Humanities
- [ ] Fine Arts
- [ ] Social Sciences
- [ ] Natural Sciences
- [ ] Integrative Capstone

### 15. Course Description
(suggested length 20 to 50 words)
Calculus-based course covering classical mechanics (statics and dynamics of translational and rotational motion), fluids, elasticity, gravitation, oscillations, and waves.

### 16a. Course Prerequisite(s)
(list prefix and number or test code and score)
- [MATH A200 with minimum grade of C], and
- [MATH A201 with minimum grade of C or concurrent enrollment], and
- [PHYS A130 with minimum grade of C]

### 16b. Co-requisite(s)
(concurrent enrollment required)
N/A

### 16c. Other Restriction(s)
- [ ] College
- [ ] Major
- [ ] Class
- [ ] Level

### 16d. Registration Restriction(s)
(non-codable)
A passing score on the departmental placement exam can be substituted for the PHYS 130 prerequisite.

### 17. Mark if course has fees

### 18. Mark if course is a selected topic course

### 19. Justification for Action
Updates to CCG, clarification of prerequisites/registration restrictions, and updating course description to reflect topics covered.

**Initiator (faculty only)**
**Initiator (TYPE NAME)**

**Katherine Rawlins**
**Date**

**Disapproved**
**Dean/Director of School/College**
**Date**

**Disapproved**
**Department Chair**
**Date**

**Disapproved**
**Undergraduate/Graduate Academic Board Chair**
**Date**

**Disapproved**
**Provost or Designee**
**Date**
I. Date initiated: 11/20/2013

II. Course Information:
   A) College: College of Arts and Sciences
   Department: Physics and Astronomy
   B) Course Title: General Physics I
   C) Course Prefix/Number: PHYS A211
   D) Number of credits: 3
   E) Contact hours: 3.0 + 0 (lecture + lab)
   F) Grading Basis: A-F
   G) Course Description: Calculus-based course covering classical mechanics (statics and dynamics of translational and rotational motion), fluids, elasticity, gravitation, oscillations, and waves.
   H) Status of course relative to degree programs: optional or required for Biological Sciences, Chemistry, Natural Sciences, Physics (minor), Civil Engineering, Computer Science, Engineering, and Geomatics programs.
   I) Fees: none
   J) Coordination: UAA Faculty Listserv, and heads of departments in affected degree programs, or with affected courses (see attached coordination sheet).
   K) Prerequisite: [MATH A200 with minimum grade of C], and
      [MATH A201 with minimum grade of C or concurrent enrollment],
      and
      [PHYS A130 with minimum grade of C]
   L) Registration restrictions: A passing score on the departmental placement exam can be substituted for the PHYS A130 prerequisite.

III. Course level justification:
   Calculus-level introductory physics is a traditional 200-level course, most often taken by freshmen and sophomores in a science or engineering major program as a two-semester series. This is the first semester of the series.

IV. Instructional Goals & Student Learning Outcomes
   A) Instructional Goals
      -- To provide the student with an in-depth understanding of the fundamental concepts of classical mechanics
      -- To teach both conceptual understanding and problem solving techniques
      -- To teach students vector analysis and calculus applied to classical mechanics
      -- To teach the theoretical basis of standard solutions to problems in statics and dynamics
-- To expose students to problems from a wide range of physical phenomena with emphasis on engineering and real-world applications
-- To help students learn about friction, gravitation, elastic systems (both driven and damped), as well as properties of fluids

B) Student Learning Outcomes & Assessment Methods

<table>
<thead>
<tr>
<th>The student will…</th>
<th>… as measured by:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manipulate 2 and 3 dimensional vector quantities</td>
<td>Homework and in-class tests</td>
</tr>
<tr>
<td>Calculate motion in two dimensions</td>
<td>Homework and in-class tests</td>
</tr>
<tr>
<td>Employ force diagrams to write down equations of motion</td>
<td>Homework and in-class tests</td>
</tr>
<tr>
<td>Apply energy and momentum conservation to solve problems</td>
<td>Homework and in-class tests</td>
</tr>
<tr>
<td>Predict conserved quantities in 1- and 2-dimensional collisions</td>
<td>Homework and in-class tests</td>
</tr>
<tr>
<td>Solve the differential equations associated with oscillatory motion</td>
<td>Homework and in-class tests</td>
</tr>
<tr>
<td>Use Bernoulli’s equation to solve fluid problems</td>
<td>Homework and in-class tests</td>
</tr>
<tr>
<td>Relate wave interference to observed properties of sound</td>
<td>Homework and in-class tests</td>
</tr>
</tbody>
</table>

V. Topical course outline:

1. Motion in One Dimension
   a) Velocity, Speed, Acceleration
   b) Derivation of Kinematic Equations
2. Properties of Scalars and Vectors; Unit Vectors
   a) Vector Manipulations
3. Motion in Two Dimensions
   a) Displacement, Velocity, Acceleration Vectors
   b) Projectiles, Circular Motion
   c) Tangential Velocity and Acceleration in Curvilinear Motion; Vector Representation
   d) Relative Motion
   e) Effect of High Velocities
4) Newton’s Laws of Motion
   a) Inertia, Inertial Mass, Weight, Friction
5) Newton’s Laws and Circular Motion
6) Work and Energy
   a) Constant Forces and Work
   b) Variable Forces and Work
   c) Work and Kinetic Energy
7) Potential Energy and Conservation of Energy
8) Linear Momentum and Collisions
   a) Impulse Forces and Linear Momentum
   b) Conservation of Linear Momentum
   c) Two-Particle Systems
   d) Collisions in One Dimension
   e) Collisions in Two Dimensions; Center of Mass
   f) Rocket Propulsion

9) Rotation of a Rigid Body – Fixed Axis
   a) Angular Velocity and Acceleration; Vector Form
   b) Rotational Kinematics; Angular Acceleration
   c) Moment of Inertia; Torque
   d) Torque and Angular Acceleration
   e) Work and Energy in Rotating Systems

10) Rolling Motion, Angular Momentum
    a) Torque and the Vector Product
    b) Rotation of a Rigid Body about a Fixed Axis
    c) Conservation of Angular Momentum

11) Static Equilibrium and Elasticity
    a) Conditions for Equilibrium
    b) Center of Gravity
    c) Elastic Properties of Solids

12) Oscillatory Motion
    a) Simple Harmonic Motion (SHM)
    b) Mass on a Spring
    c) Energy in SHM Oscillations
    d) The Pendulum
    e) Damped and Driven Oscillations
    f) Resonance

13) Gravitation
    a) Newton’s Law of Gravitation
    b) Measurement of G
    c) Weight and the Gravitational Force
    d) The Gravitational Field; Planetary Motion
    e) Gravitational Potential Energy
    f) Gravitation due to Extended Bodies

14) Fluid Mechanics
    a) States of Matter; Density and Pressure
    b) Buoyant Forces and Archimedes’ Principle
    c) Equation of Continuity
    d) Benoulli’s Equation

15) Wave Motion
    a) Types of Waves
    b) One-Dimensional Traveling Waves
    c) Superposition and Interference of Waves
    d) Speed of Waves on a String
    e) Reflection and Transmission of Waves
    f) Sinusoidal Waves

16) Sound Waves
a) Speed of Sound Waves
b) Periodic Sound Waves
c) Spherical and Plane Waves
d) Doppler Effect

17) Superposition and Standing Waves
   a) Superposition and Interference of Sinusoidal Waves
   b) Standing Waves in a String
   c) Standing Waves in Air Columns
   d) Resonance

18) Thermodynamics
   a) Temperature Scales
   b) Thermal Expansion
   c) Measurement of Temperature

VI. Suggested text(s):

VII. Bibliography
1a. School or College  
AS CAS  
1b. Division  
AMSC Division of Math Science  
1c. Department  
Physics  

2. Course Prefix  
PHYS  
3. Course Number  
A211L  
4. Previous Course Prefix & Number  
NA  
5a. Credits/CEUs  
1  
5b. Contact Hours  
(Lecture + Lab)  
(0+3)  

6. Complete Course Title  
General Physics I Laboratory  
Abbreviated Title for Transcript (30 character)  

7. Type of Course  
☒ Academic  ☐ Preparatory/Development  ☐ Non-credit  ☐ CEU  ☐ Professional Development  

8. Type of Action:  ☐ Add  ☒ Change  ☐ Delete  
If a change, mark appropriate boxes:  
☐ Prefix  ☐ Course Number  ☐ Credits  ☒ Title  ☐ Repeat Status  ☐ Grading Basis  ☒ Cross-Listed/Stacked  ☐ Course Description  ☒ Course Prerequisites  ☐ Test Score Prerequisites  ☐ Co-requisites  ☐ Other Restrictions  ☐ Class  ☐ Level  ☐ College  ☐ Major  ☒ Other CCG (please specify)  

9. Repeat Status No  ☐ # of Repeats  ☐ Max Credits  

10. Grading Basis  
☒ A-F  ☐ P/NP  ☐ NG  

11. Implementation Date  
semester/year  
From: Fall/2014  
To: 9999  

12. ☐ Cross Listed with  ☐ NA  
Stacked with  ☐ NA  
Cross-Listed Coordination Signature  

13a. Impacted Courses or Programs: List any programs or college requirements that require this course.  
Please type into fields provided in table. If more than three entries, submit a separate table. A template is available at www.uaa.alaska.edu/governance.  

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Initiator Name (typed):  J. Pantaleone  
Initiator Signed Initials:  _________  
Date:  __________________  

13b. Coordination Email  
Date: 11-26-13  
submitted to Faculty Listserv:  (uaa-faculty@lists.uaa.alaska.edu)  
13c. Coordination with Library Liaison  
Date: 12-02-13  

14. General Education Requirement  
Mark appropriate box:  
☐ Oral Communication  ☐ Written Communication  ☐ Quantitative Skills  ☐ Humanities  
☐ Fine Arts  ☐ Social Sciences  ☒ Natural Sciences  ☐ Integrative Capstone  

15. Course Description (suggested length 20 to 50 words)  
Calculus-based introductory physics laboratory with experiments in computerized data collection and analysis, mechanics, waves, elasticity and wave motion.  

16a. Course Prerequisite(s) (list prefix and number or test code and score)  
PHYS A211 with a minimum grade of C or concurrent enrollment.  
16b. Co-requisite(s) (concurent enrollment required)  
NA  
16c. Other Restriction(s)  
☒ College  ☐ Major  ☐ Class  ☐ Level  
16d. Registration Restriction(s) (non-codable)  
If the equivalent of PHYS A211 is taken from another institution, it must be completed prior to taking PHYS A211L.  

17. ☒ Mark if course has fees  
18. ☐ Mark if course is a selected topic course  

19. Justification for Action  
To update course and clarify expectations for a physics lab course.  

Initiator (faculty only)  
J. Pantaleone  
Date  

Initiator (TYPE NAME)  
Date  

Approved  
Disapproved  
Dean/Director of School/College  
Date  

Approved  
Disapproved  
Undergraduate/Graduate Academic  
Date  

Approved  
Disapproved  
Board Chair  
Date  

Approved  
Disapproved  
Provost or Designee  
Date  

53
I. Date of Initiation: November 20, 2013

II. Course Information

1. College: CAS
2. Course Subject: PHYS
3. Course Number: A211L
4. Number of Credits: 1
5. Number of Contact Hours: 0+3
6. Course Title: General Physics I Laboratory
7. Grading Basis: A-F
8. Course Description:

Calculus-based introductory physics laboratory with experiments in computerized data collection and analysis, mechanics, waves, elasticity and wave motion.

9. Course Prerequisite:

PHYS A211 with a minimum grade of C or concurrent enrollment.

10. Registration Restriction:

If the equivalent of PHYS A211 is taken from another institution, it must be completed prior to taking PHYS A211L.

11. Fees: yes

III. Instructional Goals and Student Learning Outcomes

1. Instructional Goals

1. To help students understand the scientific method: that the basis of knowledge in science is experiments.
2. To reinforce the concepts covered in the PHYS A211 lecture.
3. To provide each student with hands-on use of the modern tools for doing experimental physics and in the settings encountered by professionals in the discipline. The tools to be used include rulers, micrometers, sonic range finders, force sensors, video analysis and computerized data collection equipment. The instructor will provide hands-on supervision of the student's use of these tools in a laboratory setting.
4. To provide the student with hands-on use of modern data analysis tools. These include using computers for graphing, curve fitting, modeling and statistical analysis.
5. To provide the student with an appreciation of uncertainties in measured quantities and uncertainty analysis techniques.
6. To help students develop collaborative learning skills in the investigation of physical phenomena. The instructor will provide hands-on supervision and guidance to students working in small groups in a laboratory setting.
7. To provide opportunities for students to gain familiarity and experience with the equipment and procedures of a college level physics laboratory.

2. Student Learning Outcomes and Assessment Measures

The students in this Physics lab course will be able to

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<td>design and conduct experiments and draw inferences from their observations.</td>
<td>Weekly lab reports.</td>
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<tr>
<td>demonstrate competency applying Newton's laws to physical situations.</td>
<td>Weekly lab reports and hands-on midterm and final exams.</td>
</tr>
<tr>
<td>demonstrate hands-on competency in using measuring devices.</td>
<td>Performance in a laboratory setting.</td>
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<tr>
<td>demonstrate hands-on competency in using computers to analyze data.</td>
<td>Performance in a laboratory setting.</td>
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<td>collaborate in small groups to set up equipment, take measurements and analyze data.</td>
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<td>describe the equipment and safety procedures of a college level physics laboratory.</td>
<td>Demonstrated compliance with laboratory safety procedures and correct operation of equipment under the direction of physics laboratory personnel.</td>
</tr>
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</table>

IV. Topical Course Outline

Here is a list of experiments typically performed in the course.

1. Lab safety
2. Introduction to Excel
3. 2D Kinematics
4. Propagation of Errors
5. Cart on an Inclined Plane
6. Acceleration of a Sliding Box.
7. Conservation of Momentum
8. Rotational Motion
9. Simple Harmonic Motion
10. Waves on a String
11. Added Mass of a Ball in the Air

V. Suggested Text


VI. Bibliography


**Course Action Request**

**University of Alaska Anchorage**

Proposal to Initiate, Add, Change, or Delete a Course

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<td>Physics and Astronomy</td>
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| 2. Course Prefix      | PHYS |
| 3. Course Number      | A212 |
| 4. Previous Course Prefix & Number | N/A |
| 5a. Credits/CEUs      | 3 |
| 5b. Contact Hours     | (Lecture + Lab) (3+0) |

**Complete Course Title**

General Physics II

**Abbreviated Title for Transcript (30 character)**

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If a change, mark appropriate boxes:

- Prefix
- Credits
- Title
- Grading Basis
- Course Description
- Test Score Prerequisites
- Other Restrictions
  - Class
  - Level
  - College
  - Major
- Other CCG (please specify)

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13a. Impacted Courses or Programs: List any programs or college requirements that require this course.

Please type into fields provided in table. If more than three entries, submit a separate table. A template is available at [www.aaa.alaska.edu/governance](http://www.aaa.alaska.edu/governance).

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Initiator Name (typed): Katherine Rawlins  Initiator Signed Initials: ______________________  Date: ____________

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14. General Education Requirement

Mark appropriate box:

- Oral Communication
- Written Communication
- Quantitative Skills
- Humanities
- Fine Arts
- Social Sciences
- Natural Sciences
- Integrative Capstone

15. Course Description (suggested length 20 to 50 words)

Calculus-based course emphasizing basic electromagnetic theory, waves, fundamentals of geometric and physical optics, and light.

16a. Course Prerequisite(s) (list prefix and number or test code and score)

- [MATH A201 with minimum grade of C], and [MATH A202 with minimum grade of C or concurrent enrollment], and [PHYS A211 with minimum grade of C]

16b. Co-requisite(s) (concurrent enrollment required)

N/A

16c. Other Restriction(s)

- College
- Major
- Class
- Level

16d. Registration Restriction(s) (non-codable)

N/A

17. ☐ Mark if course has fees

18. ☐ Mark if course is a selected topic course

19. Justification for Action

Updates to CCG, and clarification of prerequisites

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**Course Action Request (continued)**

**University of Alaska Anchorage**

Proposal to Initiate, Add, Change, or Delete a Course

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57
COURSE CONTENT GUIDE

I. Date initiated: 11/20/2013

II. Course Information:
   A) College: College of Arts and Sciences
   B) Course Title: General Physics II
   C) Course Prefix/Number: PHYS A212
   D) Number of credits: 3
   E) Contact hours: 3.0 + 0 (lecture + lab)
   F) Grading Basis: A-F
   G) Course Description: Calculus-based course emphasizing basic electromagnetic theory, waves, fundamentals of geometric and physical optics, and light.
   H) Status of course relative to degree programs: optional or required for Biological Sciences, Chemistry, Natural Sciences, Physics (minor), Civil Engineering, Computer Science, and Engineering programs
   I) Fees: none
   J) Coordination: UAA Faculty Listserv, and heads of departments in affected degree programs, or with affected courses (see attached coordination sheet).
   K) Prerequisite: [MATH A201 with minimum grade of C], and [MATH A202 with minimum grade of C or concurrent enrollment], and [PHYS A211 with minimum grade of C]
   L) Registration restrictions: none

III. Course level justification:
    Calculus-level introductory physics is a traditional 200-level course, most often taken by freshmen and sophomores in a science or engineering major program as a two-semester series. This is the second semester of the series.

IV. Instructional Goals & Student Learning Outcomes
   A) Instructional Goals
      -- To provide the student with an in-depth understanding of the fundamental concepts of classical electricity and magnetism
      -- To teach both conceptual understanding and problem solving techniques
      -- To teach students vector analysis and calculus applied to classical electricity and magnetism
      -- To expose students to problems from a wide range of exercises with emphasis on engineering and real-world applications
      -- To give the student an introduction to electromagnetic phenomena, including Maxwell’s Equations, and the theory of light and its propagation
To teach how light interacts with matter in simple optics, including lenses, mirrors, reflection, refraction, interference, and diffraction

B) Student Learning Outcomes & Assessment Methods

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<tr>
<td>Manipulate vector laws of nature involving the cross product</td>
<td>Homework and in-class tests</td>
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<tr>
<td>Calculate motion of charged particles in electric or magnetic fields</td>
<td>Homework and in-class tests</td>
</tr>
<tr>
<td>Employ vector calculus to derive equations of motion from potentials</td>
<td>Homework and in-class tests</td>
</tr>
<tr>
<td>Apply flux conservation to solve electrostatic problems</td>
<td>Homework and in-class tests</td>
</tr>
<tr>
<td>Predict the behavior of circuits from Kirchoff's laws</td>
<td>Homework and in-class tests</td>
</tr>
<tr>
<td>Solve LC circuit equations associated with oscillatory motion</td>
<td>Homework and in-class tests</td>
</tr>
<tr>
<td>Use geometric optics to predict the behavior of lenses</td>
<td>Homework and in-class tests</td>
</tr>
<tr>
<td>Relate wave interference to observed properties of light</td>
<td>Homework and in-class tests</td>
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</table>

V. Topical course outline:

1. Heat and the First Law of Thermodynamics
   a) Heat Capacity, Specific Heat, Latent Heat
   b) Heats of Fusion and Vaporization
   c) First Law of Thermodynamics – Applications
2. Kinetic Theory of Gases
   a) Molecular Model of Gases; Ideal Gases
   b) Temperature; Heat Capacity
   c) Adiabatic Processes; Equipartition of Energy
3. Heat Engines; Entropy; Second Law of Thermodynamics
   a) Reversible and Irreversible Processes
   b) Isothermal and Isobaric Processes
   c) Carnot Cycle
   d) Entropy
4. Electric Fields
   a) Electric Charge; Insulators and Conductors
   b) Coulomb’s Law and the Electric Field
   c) Charge Distributions and Fields
   d) Motion of an Electric Charge in an Electric Field
5. Gauss’s Law
   a) Electric Flux
   b) Gauss’s Law for Insulators and Conductors
6. Electric Potential
   a) Electric Potential and Potential Energy
   b) Point Charges vs. Charge Distributions
   c) Millikan's Oil Drop Experiment
   d) Potential of a Charged Conductor

7. Capacitance and Dielectric
   a) Definition and Calculation of Capacitance
   b) Capacitors; Applications
   c) Series and Parallel Combinations
   d) Dielectrics
   e) Energy Considerations

8. Current and Resistance
   a) Current; Resistance; Ohm's Law
   b) Electrical Energy and Power

9. Direct Current Circuits
   a) Series and Parallel Resistive Circuits
   b) EMF; Kirchhoff's Rules
   c) Capacitance; RC Circuits

10. Magnetic Fields
    a) Magnetic Forces on Electrical Currents in Wires
    b) Torque on a Current Loop in a Magnetic Field
    c) Motion of a Charged Particle in a Magnetic Field
    d) Biot-Savart Law and the Origin of Magnetic Fields
    e) Ampere's Law
    f) Magnetic Field of a Solenoid
    g) Magnetic Flux; Gauss's Law for Magnetism

11. Faraday's Law
    a) The Law of Induction
    b) Motional EMF
    c) Induced EMF and Electric Fields
    d) Maxwell's Equations

12. Inductance
    a) Self-inductance; RL Circuits
    b) Energy in Magnetic Fields
    c) Mutual Inductance
    d) Oscillations in an LC Circuit
    e) RLC Circuits

13. Alternating Current Circuits
    a) AC Sources and Phasors
    b) Resistors, Capacitors, and Inductors in AC Circuits
    c) The RLC Series Circuit
    d) Power in AC Circuits
    e) Resonance in AC Circuits

14. Electromagnetic Waves
    a) Maxwell's Equations
    b) Plane Electromagnetic Waves
    c) Energy and EM Waves
    d) Momentum and Radiation Pressure

15. Light and Optics
    a) Speed of Light; Frequency; Wavelength
    b) Wave Relation for Light
c) Reflection and Refraction
d) Dispersion and Prisms
e) Huygens’ Principle
f) Total Internal Reflection

16. Geometric Optics
   a) Images Formed by Lenses
   b) Images Formed by Mirrors; Plane and Spherical
   c) Thin Lenses; Single and Compound
d) Aberrations of Lenses

17. Interference and Diffraction
   a) Description of the Effects
   b) Intensity Distribution for the Double Slit
c) Phasors and Wave Addition
d) Single Slit Diffraction
e) Resolution of Single Slit and Circular Apertures
   f) Diffraction Gratings
g) Polarization

VI. Suggested text(s):

VII. Bibliography
**Course Action Request**

**University of Alaska Anchorage**

Proposal to Initiate, Add, Change, or Delete a Course

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**6. Complete Course Title**

General Physics II Laboratory

**Abbreviated Title for Transcript (30 character)**

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| 12. Cross Listed with |
|----------------------|------------------|
|                      | NA               |

**13a. Impacted Courses or Programs:**

List any programs or college requirements that require this course.

Please type into fields provided in table. If more than three entries, submit a separate table. A template is available at [www.uaa.alaska.edu/governance](http://www.uaa.alaska.edu/governance).

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**Initiator Name (typed):** J. Pantaleone

**Initiator Signed Initials:**

**Date:**

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**14. General Education Requirement**

Mark appropriate box:

- Oral Communication
- Written Communication
- Quantitative Skills
- Humanities
- Fine Arts
- Social Sciences
- Natural Sciences
- Integrative Capstone

**15. Course Description (suggested length 20 to 50 words)**

Calculus-based introductory physics laboratory with experiments in electric and magnetic fields, geometric and physical optics and light.

**16a. Course Prerequisite(s)** (list prefix and number or test code and score)

[PHYS A211 and PHYS A211L] with minimum grades of C and [PHYS A212 with a minimum grade of C or concurrent enrollment].

**16b. Co-requisite(s)** (concurrent enrollment required)

NA

**16c. Other Restriction(s)**

- College
- Major
- Class
- Level

**16d. Registration Restriction(s) (non-codable)**

If the equivalent of PHYS A212 is taken from another institution, it must be completed prior to taking PHYS A212L.

**17. Mark if course has fees**

**18. Mark if course is a selected topic course**

**19. Justification for Action**

To update course and clarify expectations for a physics lab course.

**Initiator (faculty only)**

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COURSE CONTENT GUIDE

I. Date of Initiation: November 20, 2013

II. Course Information

1. College: CAS
2. Course Subject: PHYS
3. Course Number: A212L
4. Number of Credits: 1
5. Number of Contact Hours: 0+3
6. Course Title: General Physics II Laboratory
7. Grading Basis: A-F
8. Course Description:
   Calculus-based introductory physics laboratory with experiments in electric and magnetic fields, geometric and physical optics and light.
9. Course Prerequisite:
   [PHYS A211 and PHYS A211L] with minimum grades of C and [PHYS A212 with a minimum grade of C or concurrent enrollment].
10. Registration Restriction:
    If the equivalent of PHYS A212 is taken from another institution, it must be completed prior to taking PHYS A212L.
11. Fees: yes

III. Instructional Goals and Student Learning Outcomes

1. Instructional Goals
   1. To help students understand the scientific method: that the basis of knowledge in science is experiments.
   2. To reinforce the concepts covered in the PHYS A212 lecture.
   3. To provide each student with hands-on use of the modern tools for doing experimental physics and in the settings encountered by professionals in the discipline. The tools to be used include ammeters, voltmeters, capacitance meters, gauss meters, photometers and computerized data collection equipment. The instructor will provide hands-on supervision of the student's use of these tools in a laboratory setting.
   4. To provide the student with hands-on use of modern data analysis tools. These include using computers for graphing, curve fitting, modeling and statistical analysis.
5. To provide the student with an appreciation of uncertainties in measured quantities and uncertainty analysis techniques.
6. To help students develop collaborative learning skills in the investigation of physical phenomena. The instructor will provide hands-on supervision and guidance to students working in small groups in a laboratory setting.
7. To provide opportunities for students to gain familiarity and experience with the equipment and procedures of a college level physics laboratory.

2. Student Learning Outcomes and Assessment Measures

Students in this Physics lab course will be able to

<table>
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<th>Outcomes</th>
<th>Measures</th>
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<tbody>
<tr>
<td>design and conduct experiments and draw inferences from their observations.</td>
<td>Weekly lab reports.</td>
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<tr>
<td>demonstrate competency applying Maxwell's equations to physical situations.</td>
<td>Weekly lab reports and hands-on exams.</td>
</tr>
<tr>
<td>demonstrate the ability to work hands-on with up-to-date physics tools.</td>
<td>Performance in a laboratory setting.</td>
</tr>
<tr>
<td>demonstrate hands-on competency in using computers to analyze data.</td>
<td>Weekly lab reports and hands-on exams.</td>
</tr>
<tr>
<td>estimate the uncertainty in all physical measurements and will propagate this uncertainty to their final, calculated results.</td>
<td>Weekly lab reports and exams.</td>
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<tr>
<td>collaborate in small groups to setup equipment, take measurements and analyze data.</td>
<td>Performance in a laboratory setting.</td>
</tr>
<tr>
<td>describe the equipment and safety procedures of a college level physics laboratory.</td>
<td>Demonstrated compliance with laboratory safety procedures and correct operation of equipment under the direction of physics laboratory personnel.</td>
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IV. Topical Course Outline

Here is a list of experiments typically performed in the course.

1. Coulomb's Law
2. Electric Forces and Fields
3. I vs. V for Resistors and Diodes
4. Mystery Circuits
5. Capacitors
6. Magnetic Field of Magnet
7. Charge to Mass Ratio for the Electron
8. Induction, Faraday's Law
9. Build a Motor
10. Geometric Optics
11. Interference and Diffraction of Light

V. Suggested Text


VI. Bibliography


**Course Action Request**
University of Alaska Anchorage
Proposal to Initiate, Add, Change, or Delete a Course

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| 6. Complete Course Title | Optics |

**Abbreviated Title for Transcript (30 character)**

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<thead>
<tr>
<th>7. Type of Course</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>☑️ Academic</td>
<td>☐ Preparatory/Development</td>
</tr>
</tbody>
</table>

| 8. Type of Action: | ☑️ Add | ☐ Change | ☐ Delete |

If a change, mark appropriate boxes:

- Prefix
- Credits
- Title
- Grading Basis
- Course Description
- Test Score Prerequisites
- Other Restrictions
- College
- Major
- Other (please specify)

<table>
<thead>
<tr>
<th>9. Repeat Status No</th>
<th># of Repeats</th>
<th>Max Credits</th>
</tr>
</thead>
</table>

| 10. Grading Basis | ☑️ A-F | ☐ P/NP | ☐ NG |

| 11. Implementation Date | semester/year | From: Fall/2014 | To: /9999 |

| 12. Cross Listed with | ☐ Stacked with |

- Cross-Listed Coordination Signature

13a. Impacted Courses or Programs: List any programs or college requirements that require this course.

Please type into fields provided in table. If more than three entries, submit a separate table. A template is available at [www.uaa.alaska.edu/governance](http://www.uaa.alaska.edu/governance).

<table>
<thead>
<tr>
<th>Impacted Program/Course</th>
<th>Date of Coordination</th>
<th>Chair/Coordinator Contacted</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
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<tr>
<td>2.</td>
<td></td>
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<tr>
<td>3.</td>
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</tbody>
</table>

Initiator Name (typed): Erin K.S. Hicks
Initiator Signed Initials: __________
Date: __________

13b. Coordination Email:
Date: 11/26/13
submitted to Faculty Listserv: [ua-faculty@lists.uaa.alaska.edu](mailto:ua-faculty@lists.uaa.alaska.edu)

13c. Coordination with Library Liaison:
Date: 12/2/13

14. General Education Requirement
Mark appropriate box:

- Oral Communication
- Written Communication
- Social Sciences
- Quantitative Skills
- Fine Arts
- Natural Sciences
- Humanities
- Integrative Capstone

<table>
<thead>
<tr>
<th>15. Course Description (suggested length 20 to 50 words)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interaction of light with matter; theory of geometric and nonlinear optics, Fourier optics, coherence theory, lasers, and additional topics of current interest. Practical experience with relevant theories through laboratory projects, including investigation of diffraction, interference, and polarization, and the design and construction of a telescope, microscope, and interferometer.</td>
</tr>
</tbody>
</table>

16a. Course Prerequisite(s) (list prefix and number or test code and score)
PHYS A212 with minimum grade of C and PHYS A212L with minimum grade of C

16b. Co-requisite(s) (concurrent enrollment required)
N/A

16c. Other Restriction(s)
☐ College
☐ Major
☐ Class
☐ Level

16d. Registration Restriction(s) (non-codable)
N/A

| 17. ☑️ Mark if course has fees |

18. ☐ Mark if course is a selected topic course

19. Justification for Action
Adding new course: a topic of broad interest, which also takes advantage of expertise of astronomers in the department's faculty

Initiator (faculty only)
Erin K. S. Hicks
Initiator (TYPE NAME)

Approved
Disapproved

Dean/Director of School/College
Date

Undergraduate/Graduate Academic
Date

Board Chair

Provost or Designee

Approved
Disapproved

Department Chair
Date

Approved
Disapproved

College/School Curriculum Committee Chair
Date
COURSE CONTENT GUIDE

I) Date initiated: 11/20/2013

II) Course Information:
   A) College: College of Arts and Sciences
   B) Course Title: Optics
   C) Course Prefix/Number: PHYS A362
   D) Number of credits: 4
   E) Contact hours: 4.0 + 0 (lecture + lab)
   F) Grading Basis: A-F
   G) Course Description: Interaction of light with matter; theory of geometric and nonlinear optics, Fourier optics, coherence theory, lasers, and additional topics of current interest. Practical experience with relevant theories through laboratory projects, including investigation of diffraction, interference, and polarization, and the design and construction of a telescope, microscope, and interferometer.
   H) Status of course relative to degree programs: elective for the Physics Minor
   I) Fees: yes
   J) Coordination: UAA Faculty Listserv
   K) Prerequisite: PHYS A212 with minimum grade of C and PHYS A212L with minimum grade of C
   L) Registration restrictions: none

III) Course level justification:
This is a traditional junior level physics class. The prerequisites are consistent with the 300 level classification and in particular this course expands on fundamental concepts introduced in PHYS A212, such as geometric optics and Maxwell’s equations.

IV) Instructional Goals & Student Learning Outcomes
   A) Instructional Goals.
      The instructor will:
      1. Introduce students to the fundamental principles of classical optics (e.g. geometric optics) and combine this with in-class laboratory exercises to solidify their understanding of these concepts.
2. Introduce students to the fundamental principles of modern optics (e.g. nonlinear, lasers) and combine this with in-class laboratory exercises to solidify their understanding of these concepts.

3. Extend concepts such as Maxwell’s equations introduced in prerequisite courses to their application in optical systems.

4. Guide students through in-class experiments designed to demonstrate applications of the theories presented in class. This will include building optical systems such as telescopes, microscopes, and interferometers as well as experiments investigating diffraction, interference, and polarization.

V) Student Learning Outcomes & Assessment Methods

**The student will be able to...**

<table>
<thead>
<tr>
<th>... as measured by:</th>
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</thead>
<tbody>
<tr>
<td>Characterize light using wave and electromagnetic theories</td>
</tr>
<tr>
<td>Comprehend the propagation path of light under geometrical theories of optics (application of laws of reflection and refraction, diffraction, polarization, etc.)</td>
</tr>
<tr>
<td>Design and build optical systems using principles of geometric optics, (e.g. a telescope, microscope, interferometer).</td>
</tr>
<tr>
<td>Comprehend the response of light when interacting with nonlinear materials through the use of nonlinear equations of motion and perturbation theory.</td>
</tr>
<tr>
<td>Design and build optical systems using principles of nonlinear optics (e.g. holography).</td>
</tr>
</tbody>
</table>

VI) Topical course outline:

A. Wave Theory
B. Electromagnetic Theory
C. Reflection and Refraction
D. Interference
E. Polarization
F. Diffraction
G. Dispersion
H. Geometrical Optics
I. Fourier Analysis  
J. Coherence Theory  
K. Holography  
L. Lasers  
M. Nonlinear optics

Laboratory exercises (at the discretion of the instructor) may include:

A. Building a Telescope  
B. Building a Microscope  
C. Interference & Diffraction  
D. Fourier Optics  
E. Interferometry & Coherence  
F. Polarization  
G. Holography

VII) Suggested text(s):

Optics, 4th ed., Eugene Hecht, Addison-Wesley (2001)  

VIII) Bibliography:

Crystals and Light, Elizabeth A. Wood, Dover (1977)  
TO: College of Health Curriculum Committee
   Undergraduate Academic Board

From: Dr. Heidi Mannion, Professor/Program Director
   Medical Laboratory Science (MLS)

Subject: Curriculum Changes

Date: January 16, 2014

General admission requirements for all students entering programs offered by the Medical Laboratory Science Department have been revised to include certification in Basic Life Support for Health Care Provider (BLS-HCP) which is now being required by our clinical affiliates.

Due to increased enrollment in the MLS programs, there are not enough clinical training sites in Anchorage. We have used training sites outside of Anchorage in the past. Placement at those sites was on a volunteer basis. The policy on clinical practicum sites has been revised for both the AAS-MLT and BS-MLS programs to inform students that they may be placed outside of Anchorage, the selection process for placement and that additional costs may be incurred when training at those sites.

The requirement for CIS A110 is being changed to CIS A105 or CIS A110 to align with the AAS in Medical Laboratory Technology. The AAS-MLT and BS-MLS programs are articulated.
# Program/Prefix Action Request

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

<table>
<thead>
<tr>
<th>1a. School or College</th>
<th>1b. Department</th>
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<tbody>
<tr>
<td>CH College of Health</td>
<td>Medical Laboratory Science</td>
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<table>
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<tr>
<th>2. Complete Program Title/Prefix</th>
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<tbody>
<tr>
<td>OEC: Phlebotomist/MEDT</td>
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</table>

<table>
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<tr>
<th>3. Type of Program</th>
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<tbody>
<tr>
<td>CHOOSE ONE</td>
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This program is a Gainful Employment Program: ☐ Yes or ☐ No

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<tr>
<th>4. Type of Action: PROGRAM</th>
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<tbody>
<tr>
<td>☐ Add</td>
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<th>4. Type of Action: PREFIX</th>
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<tr>
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<td>☐ Change</td>
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<td>☒ Inactivate</td>
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<th>5. Implementation Date (semester/year)</th>
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<tr>
<td>From: Fall/2014</td>
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<td>To: /9999</td>
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<tr>
<th>6a. Coordination with Affected Units</th>
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<tbody>
<tr>
<td>Department, School, or College:</td>
</tr>
<tr>
<td>Initiator Name (typed): Heidi Mannion</td>
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<tr>
<td>Date: _____________________________</td>
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<tr>
<td>Initiator Signed Initials: __________</td>
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<tr>
<th>6b. Coordination Email submitted to Faculty Listserv (<a href="mailto:uaa-faculty@lists.uaa.alaska.edu">uaa-faculty@lists.uaa.alaska.edu</a>)</th>
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<th>6c. Coordination with Library Liaison</th>
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<th>7. Title and Program Description - Please attach the following:</th>
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<tbody>
<tr>
<td>☒ Cover Memo</td>
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<td>☒ Catalog Copy in Word using the track changes function</td>
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<tbody>
<tr>
<td>General admission requirements have been revised to include certification in Basic Life Support for Health Care Provider (BLS-HCP) required by clinical affiliates.</td>
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<tr>
<td>Heidi Mannion</td>
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<td>Date: __________________</td>
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<th>Board Chair</th>
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<th>Provost or Designee</th>
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<td>Approved</td>
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<tr>
<td>Disapproved</td>
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<tr>
<td>Date: ______________</td>
</tr>
</tbody>
</table>

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71
1a. School or College  
CH College of Health

1b. Department  
Medical Laboratory Science

2. Complete Program Title/Prefix  
OEC: Clinical Assistant/MEDT

3. Type of Program  
Choose one from the appropriate drop down menu: Undergraduate: or Graduate: Occupational Endorsement Certificate CHOOSE ONE

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

4. Type of Action:  
PROGRAM ☑ Add ☐ Change ☐ Delete

PREFIX ☑ Add ☐ Change ☐ Inactivate

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

6a. Coordination with Affected Units  
Department, School, or College:

Initiator Name (typed): Heidi Mannion  
Initiator Signed Initials: __________

Date:________________

6b. Coordination Email submitted to Faculty Listserv (uaa-faculty@lists.uaa.alaska.edu) Date: 12/13/2013

6c. Coordination with Library Liaison Date: 12/13/2013

7. Title and Program Description - Please attach the following: ☑ Cover Memo ☑ Catalog Copy in Word using the track changes function

8. Justification for Action  
General admission requirements have been revised to include certification in Basic Life Support for Health Care Provider (BLS-HCP) required by clinical affiliates.

Initiator (faculty only)  
Heidi Mannion  
Initiator (TYPE NAME)

☑ Approved ☐ Disapproved Dean/Director of School/College Date

☑ Approved ☐ Disapproved Undergraduate/Graduate Academic Date

☑ Approved ☐ Disapproved Board Chair Date

☑ Approved ☐ Disapproved Provost or Designee Date

☑ Approved ☐ Disapproved Department Chair Date

☑ Approved ☐ Disapproved College/School Curriculum Committee Chair Date
1a. School or College  
CH College of Health

1b. Department  
Medical Laboratory Science

2. Complete Program Title/Prefix  
AAS: Medical Laboratory Technology/MEDT

3. Type of Program

Choose one from the appropriate drop down menu:  
- Undergraduate:  
- Associate of Applied Science
- Graduate:  

This program is a Gainful Employment Program:  
- Yes  
- No

4. Type of Action:

PROGRAM
- Add
- Change
- Delete

PREFIX
- Add
- Change
- Inactivate

5. Implementation Date (semester/year)

From: Fall/2014  
To: /9999

6a. Coordination with Affected Units

Initiator Name (typed): Heidi Mannion
Initiator Signed Initials: __________

Date:________________

6b. Coordination Email submitted to Faculty Listserv (uaa-faculty@lists.uaa.alaska.edu)

Date: 12/13/2013

6c. Coordination with Library Liaison

Date: 12/13/2013

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

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

8. Justification for Action

General admission requirements have been revised to include certification in Basic Life Support for Health Care Provider (BLS-HCP) required by clinical affiliates. The policy on clinical practicum assignments has been revised to facilitate student placement.

Initiator (faculty only)  
Heidi Mannion

Initiator (TYPE NAME)

- Approved
- Disapproved

Dean/Director of School/College  
Date

- Approved
- Disapproved

Undergraduate/Graduate Academic  
Date

- Approved
- Disapproved

Board Chair

- Approved
- Disapproved

Provost or Designee

Date
1a. School or College  
CH College of Health

1b. Department  
Medical Laboratory Science

2. Complete Program Title/Prefix

BS: Medical Laboratory Science/MEDT

3. Type of Program

Choose one from the appropriate drop down menu:  
Undergraduate: or Graduate:

Bachelor of Science or CHOOSE ONE

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

4. Type of Action:

PROGRAM

☑ Add
☐ Change
☐ Delete

PREFIX

☐ Add
☐ Change
☐ Inactivate

5. Implementation Date (semester/year)

From: Fall/2014 To: /9999

6a. Coordination with Affected Units

Department, School, or College: College of Business and Public Policy

Initiator Name (typed): Heidi Mannion

Initiator Signed Initials: _________

Date:________________

6b. Coordination Email submitted to Faculty Listserv (uaa-faculty@lists.uaa.alaska.edu)

Date: 12/13/2013

6c. Coordination with Library Liaison

Date: 12/13/2013

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

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

8. Justification for Action

General admission requirements have been revised to include certification in Basic Life Support for Health Care Provider (BLS-HCP) required by clinical affiliates. The policy on clinical practicum assignments has been revised to facilitate placement. Requirement for CIS A110 is being changed to CIS A105 or CIS A110 to align with the AAS in Medical Laboratory Technology.

Initiator (faculty only)  
Heidi Mannion  
Initiator (TYPE NAME)

☑ Approved  
☐ Disapproved

Dean/Director of School/College  
Date

☐ Approved  
☐ Disapproved

Department Chair  
Date

☐ Approved  
☐ Disapproved

Undergraduate/Graduate Academic Board Chair  
Date

☐ Approved  
☐ Disapproved

Provost or Designee  
Date
The mission of the Medical Laboratory Science Department is to graduate competent and ethical clinical laboratory professionals with the knowledge and the skills for career entry. It is also the department’s mission to prepare graduates for leadership roles in the clinical laboratory and professional organizations and to instill an understanding of the need for maintaining continuing competency in a rapidly changing and dynamic profession.

The Medical Laboratory Science Department has a strong commitment to the career ladder approach to higher education. With career ladder programs, the students enrolled in the Bachelor of Science have an option to gain phlebotomy certification in one year and medical laboratory technician certification in two years as they pursue a bachelor’s degree. The AAS graduates who wish to obtain a bachelor’s degree in Medical Laboratory Science may “career ladder” without loss of credit.

General admission requirements for all students entering programs offered by the Medical Laboratory Science Department include:

1. Complete the Medical Laboratory Science program application.
2. Read and sign the Essential Requirements for Enrollment.
3. High school diploma or GED equivalency.
4. Documentation of the following prior to enrollment in either MEDT A101 or MEDT A132:
   - Immunity to rubella, rubeola, mumps and chicken pox confirmed by titer or current immunization.
   - Immunity to hepatitis A and hepatitis B. Students must have started the immunization series prior to enrolling in the courses.
   - Proof of one dose of Tdap as an adult followed by Td booster every ten years thereafter.
   - Freedom from active tuberculosis, demonstrated by initial 2-step PPD followed by annual PPD. If PPD is positive, proof of negative chest x-ray is required.
5. Documentation of the following prior to enrolling and maintained through the duration of enrollment in a practicum (MEDT A195A, MEDT A195B, MEDT A395 or MEDT A495):
   - Influenza immunization for students enrolling in clinical practicums during flu season.
   - Criminal background check within six months prior to start of practicum; some facilities also require drug screening.
   - Personal medical insurance.
   - Current certificate in Basic Life Support for Health Care Providers (BLS-HCP) issued by the American Heart Association.

Additional admission requirements are listed under program descriptions.

The Medical Laboratory Science Department assumes no responsibility for illness or injuries experienced by students in conjunction with student labs. It is strongly recommended that students maintain personal medical insurance while enrolled in any of the programs offered by the Medical Laboratory Science Department. Students enrolled in practicum (MEDT A195A, MEDT A195B, MEDT A395 or MEDT A495) must provide their own transportation to the clinical facility. Personal protective equipment is provided by the training facility. The clinical facilities require proof of medical insurance coverage; therefore, students are required to maintain personal medical insurance while enrolled in practicum courses. Medical insurance is available through the Student Health and Counseling Center. Liability insurance is purchased by the Medical Laboratory Science Department to cover the student’s practicum. The occupational endorsement certificate, AAS, and BS degrees are not contingent upon the students passing any type of external certification or licensure examination.

The AAS in Medical Laboratory Technology and the BS in Medical Laboratory Science programs are accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS), 5600 N. River Road, Suite 720, Rosemont, IL 60018-5119, (773) 714-8880. NAACLS is recognized by the United States Department of Education and by the Council for Higher Education.

Advising

All students are encouraged to meet with their academic advisor each semester for the purpose of reviewing their academic progress and planning future courses. It is particularly important for students to meet with their advisor whenever academic difficulties arise.

Honors in Medical Laboratory Science

Students majoring in Medical Laboratory Science are eligible to graduate with departmental honors by satisfying the following requirements:

1. Meet the requirements for a BS in Medical Laboratory Science.
2. Earn a grade point average of 3.5 or higher in courses applicable to the degree requirements. Only UAA and transfer courses taken within the last seven years will be included in the GPA for departmental honors.
3. Obtain approval to enroll in the Honors Elective from the program director.
4. Pass the Honors Elective course, MEDT A402, Medical Laboratory Science Honors: Quality Assessment Project.
Occupational Endorsement Certificate, Phlebotomist

Phlebotomists obtain blood and other samples for laboratory testing. They establish professional relationships with their patients, collect and prepare specimens, maintain collection areas and equipment, and perform record keeping duties. Students are eligible to sit for national certification examinations in phlebotomy after completion of MEDT A195A.

Program Student Learning Outcomes

The specific educational outcomes for the program are to produce graduates who:

- Select the appropriate site and demonstrate the proper technique for collecting, handling, and processing blood and non-blood specimens.
- Demonstrate professional conduct, stress management, interpersonal, and communication skills with patients, peers, other health care personnel, and the public, recognizing possible legal implications.
- Recognize and adhere to infection control and safety policies and procedures.
- Demonstrate an understanding of test requisitioning.
- Identify factors that affect specimen collection procedures and test results, and take appropriate actions within predetermined limits when applicable.
- Recognize and act upon individual needs for continuing education as a function of growth and maintenance of professional competence.
- Perform point-of-care testing according to standard operating procedures.

Certificate Requirements

2. Complete the General Admissions Requirements for all programs in the Medical Laboratory Science Department that are listed at the beginning of this section.
3. The Phlebotomist Occupational Endorsement Certificate is offered on campus and by distance delivery. Distance students must contact the Medical Laboratory Science Department to arrange for a mentor and clinical training facility prior to enrolling in any of the courses.
4. Students must earn a minimum grade of C or P in the following courses:
   - MEDT A101 Phlebotomy Procedures 3
   - MEDT A110 Specimen Processing 3
   - MEDT A195A Phlebotomy Practicum 3
5. A total of 9 credits is required for the OEC.

Occupational Endorsement Certificate, Clinical Assistant

Clinical assistants perform basic laboratory testing in medical laboratories, working under the supervision of a medical laboratory scientist, medical laboratory technician, or pathologist. A clinical assistant collects and processes blood specimens and performs waived testing procedures in chemistry, hematology, microbiology, and urinalysis.

Program Student Learning Outcomes

The specific educational outcomes for the program are to produce graduates who have met the educational outcomes for the Phlebotomist OEC and who:

- Perform waived testing according to standard operating procedures.
- Monitor quality control within predetermined limits.
- Select both appropriate media for inoculation of clinical specimens and incubations conditions based on the culture requirements for the potential pathogens.

Certificate Requirements

2. Complete the General Admissions Requirements for all programs in the Medical Laboratory Science Department that are listed at the beginning of this section.
3. The Clinical Assistant Occupational Endorsement Certificate is offered on campus and by distance delivery. Distance students must contact the Medical Laboratory Science Department to arrange for a mentor and clinical training facility prior to enrolling in any of the courses.
4. Students must earn a minimum grade of C or P in the following courses:
   - MEDT A101 Phlebotomy Procedures 3
   - MEDT A105 Microbiology for Clinical Assistants 3
   - MEDT A106 Waived Testing 4
   - MEDT A110 Specimen Processing 3
   - MEDT A195A Phlebotomy Practicum 3
5. A total of 20 credits is required for the OEC.

**Associate of Applied Science, Medical Laboratory Technology**

The National Accrediting Agency for Clinical Laboratory Sciences provides the following description: At career entry, the medical laboratory technician will be able to perform routine clinical laboratory tests (such as hematology, clinical chemistry, immunohematology, microbiology, serology/immunology, coagulation, molecular, and other emerging diagnostics) as the primary analyst making specimen-oriented decisions on predetermined criteria, including a working knowledge of critical values. Communication skills will extend to frequent interactions with members of the health care team, external relations, customer service and patient education. The level of analysis ranges from waived and point-of-care testing to complex testing encompassing all major areas of the clinical laboratory. The medical laboratory technician will have diverse functions in areas of pre-analytical, analytical, and post-analytical processes. The medical laboratory technician will have responsibilities for information processing, training, and quality control monitoring wherever clinical laboratory testing is performed.

Upon graduation and initial employment, the medical laboratory technician should be able to demonstrate entry-level competencies in the above areas of professional practice. Graduates are eligible to sit for national certification examinations in medical laboratory technology after completing the program.

**Program Student Learning Outcomes**

The specific educational outcomes for the program are to produce graduates who:

- Demonstrate entry-level competencies for medical laboratory technicians in the following disciplines: hematology, chemistry, immunology, blood bank, urine and body fluid analysis, microbiology, and laboratory operations.
- Demonstrate professional behavior including sound work ethics, cultural responsiveness, and appearance while interacting with patients and healthcare professionals.
- Demonstrate continuing competency through certification maintenance.
- Demonstrate a commitment to the laboratory profession through active involvement in a professional organization.

**Admission Requirements**

1. Complete the Associate’s Degree Programs Admission Requirements at the beginning of Chapter 7.
2. Complete the General Admissions Requirements for all programs in the Medical Laboratory Science Department that are listed at the beginning of this section.
3. Meet with academic advisor regarding application, program admission, and development of a program of study.

**Academic Progress**

In order to progress within the Associate of Applied Science in Medical Laboratory Technology program, students must earn a minimum grade of C or P in all Medical Laboratory Science (MEDT) courses required for the degree and demonstrate professional behavior as defined by the “Medical Laboratory Science Department Core Abilities” and associated behavior criteria. Satisfactory progress is demonstrated by exhibiting Developing Level Criteria by the end of the second year (assessed by core faculty), and Entry Level Criteria by the end of the clinical practicum (assessed by clinical instructors). Students must receive a score of 3 or higher on the Developing Level Criteria in order to progress in the program and demonstrate the Critical Core Abilities during clinical practicum in order to graduate from the program. Students who are unable to earn an acceptable grade in the MEDT courses during their initial enrollment may attempt to earn a satisfactory grade one additional time on a space available basis.

When the number of students admitted to the program exceeds the number that can be accommodated in the clinical practicum, students are placed on an alternate list and informed they can complete their practicum should space become available, or they are given preference for a subsequent semester. Students receive a letter stating they are an alternate; they sign and return the letter acknowledging alternate status. The University of Alaska Anchorage is affiliated with clinical sites throughout the state of Alaska. Students training at clinical sites outside of Anchorage may incur additional costs related to travel and housing. The practicum coordinator will ask for volunteers to train outside of Anchorage. If there are no volunteers students may be assigned placement. Students with higher GPA’s in the MEDT courses will have first preference for location. If a student is unable or unwilling to go outside of Anchorage, they will be placed on the alternate list and given preference for a subsequent semester.

**Degree Requirements**

1. Complete the General University Requirements for Associate of Applied Science Degrees found at the beginning of this chapter.
2. Complete the General Course Requirements for Associate of Applied Science degrees found at the beginning of this chapter. In the Medical Laboratory Technology program, the required support courses meet the AAS General Course Requirements.
3. Complete the Required Support Courses and the Major Requirements listed below.
Required Support Courses

Complete all 21 credits of support courses for the Medical Laboratory Technology major with a minimum grade of C.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL A111</td>
<td>Human Anatomy and Physiology I</td>
<td>4</td>
</tr>
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<td>4</td>
</tr>
<tr>
<td>CHEM A103/L</td>
<td>Survey of Chemistry with Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CHEM A104</td>
<td>Introduction to Organic Chemistry</td>
<td></td>
</tr>
<tr>
<td></td>
<td>and Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CIS A105</td>
<td>Introduction to Personal Computers</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>and Application Software</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or</td>
<td></td>
</tr>
<tr>
<td>CIS A110</td>
<td>Computer Concepts in Business</td>
<td></td>
</tr>
<tr>
<td>ENGL A212</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or</td>
<td></td>
</tr>
<tr>
<td>ENGL A213</td>
<td>Writing in the Social and Natural</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sciences</td>
<td></td>
</tr>
</tbody>
</table>

Major Requirements

1. Complete the following major courses with a minimum grade of C or P (43-44 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDT A132</td>
<td>Introduction to Laboratory Medicine</td>
<td>3-4</td>
</tr>
<tr>
<td></td>
<td>or</td>
<td></td>
</tr>
<tr>
<td>MEDT A101</td>
<td>Phlebotomy Procedures</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>and</td>
<td></td>
</tr>
<tr>
<td>MEDT A133</td>
<td>Basic Techniques in Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>MEDT A202</td>
<td>Clinical Chemistry</td>
<td>6</td>
</tr>
<tr>
<td>MEDT A203</td>
<td>Clinical Microbiology</td>
<td>6</td>
</tr>
<tr>
<td>MEDT A204</td>
<td>Hematology and Coagulation</td>
<td>6</td>
</tr>
<tr>
<td>MEDT A206</td>
<td>Immunology and Blood Banking</td>
<td>6</td>
</tr>
<tr>
<td>MEDT A208</td>
<td>Urine and Body Fluid Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MEDT A250</td>
<td>Cultural Diversity in Health Care</td>
<td>1</td>
</tr>
<tr>
<td>MEDT A395</td>
<td>Medical Laboratory Technology Practicum</td>
<td>12</td>
</tr>
</tbody>
</table>

2. A total of 70-71 credits is required for the degree.

Bachelor of Science, Medical Laboratory Science

Medical Laboratory Scientist

The National Accrediting Agency for Clinical Laboratory Sciences provides the following description: At career entry, the medical laboratory scientist will be proficient in performing clinical laboratory tests in areas such as hematology, clinical chemistry, immunohematology, microbiology, serology/immunology, coagulation, and molecular and other emerging diagnostics, and will be able to play a role in the development and evaluation of test systems and interpretive algorithms. The graduates will have diverse responsibilities in areas of analysis and clinical decision-making, regulatory compliance with applicable regulations, education, and quality assurance/ performance improvement. They will also possess basic knowledge, skills and relevant experience in:

- Communications to enable consultative interactions with members of the health care team, external relations, customer service and patient education;
- Financial operations, marketing and human resource management of the clinical laboratory to enable cost-effective, high quality, value-added laboratory services;
- Information management to enable effective, timely, accurate and cost-effective reporting of laboratory-generated information and;
- Research design/practice sufficient to evaluate published studies as an informed consumer.

Upon graduation and initial employment, the medical laboratory scientist should be able to demonstrate entry-level competencies in the above areas of professional practice. Graduates are eligible to sit for national certification examinations in medical laboratory science after completion of the program.

Program Student Learning Outcomes

The specific educational outcomes for the program are to produce graduates who:

- Demonstrate entry-level competencies for medical laboratory scientists in the following disciplines: hematology, chemistry, immunology, blood bank, urine and body fluid analysis, microbiology, and laboratory operations.
• Demonstrate professional behavior including sound work ethics, cultural responsiveness and appearance while interacting with patients and health care professionals.
• Evaluate published studies as an informed consumer.
• Demonstrate continuing competency by certification maintenance.
• Use educator skills to create and deliver an instructional unit.
• Use laboratory management skills to plan, organize, staff and cost out a new clinical laboratory service.
• Demonstrate a commitment to the laboratory profession through active involvement in a professional organization.

Admission Requirements
1. Complete the Baccalaureate Degree Programs Admission Requirements in Chapter 7.
2. Complete the General Admission Requirements for all programs in the Medical Laboratory Science Department that are listed at the beginning of this section.
3. Meet with academic advisor regarding application, program admission, and development of a program of study.

Academic Progress
In order to progress within the Bachelor of Science Medical Laboratory Science program, students must earn a minimum grade of C or P in all Medical Laboratory Science courses required for the degree and demonstrate professional behavior as defined by the “Medical Laboratory Science Department Core Abilities” and associated behavior criteria. Satisfactory progress is demonstrated by exhibiting Developing Level Criteria by the end of the second year (assessed by core faculty), and Entry Level Criteria by the end of the Medical Laboratory Science Practicum (assessed by clinical instructors). Students must receive a score of 3 or higher on the Developing Level Criteria in order to progress in the program and demonstrate the Critical Core Abilities during clinical practicum in order to graduate from the program. Students who are unable to earn an acceptable grade in the MEDT courses during their initial enrollment may attempt to earn a satisfactory grade one additional time on a space available basis.

When the number of students admitted to the program exceeds the number that can be accommodated in the clinical practicum, students are placed on an alternate list and informed they can complete their practicum should space become available, or they are given preference for a subsequent semester. Students receive a letter stating they are an alternate; they sign and return the letter acknowledging alternate status. The University of Alaska Anchorage is affiliated with clinical sites throughout the state of Alaska. Students training at clinical sites outside of Anchorage may incur additional costs related to travel and housing. The practicum coordinator will ask for volunteers to train outside of Anchorage. If there are no volunteers, students may be assigned placement. Students with higher GPA’s in the MEDT courses will have first preference for location. If a student is unable or unwilling to go outside of Anchorage, they will be placed on the alternate list and given preference for a subsequent semester.

Degree Requirements
1. Complete the General University Requirements for Baccalaureate Degrees listed at the beginning of this chapter.
2. Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter. In the Medical Laboratory Science program, the required support courses meet the Quantitative Skills and Natural Science Requirements.
3. Complete the Required Support Courses and Major Requirements listed below.

Required Support Courses
Complete all 31-36 credits of support courses for the Medical Laboratory Science major with a minimum grade of C.

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<tr>
<td>CHEM A103</td>
<td>Survey of Chemistry (3) and</td>
<td>4</td>
</tr>
<tr>
<td>CHEM A103L</td>
<td>Survey of Chemistry Laboratory (1)</td>
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<tr>
<td>CHEM A105</td>
<td>General Chemistry I (3) and</td>
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<tr>
<td>CHEM A105L</td>
<td>General Chemistry I Laboratory (1)</td>
<td></td>
</tr>
<tr>
<td>CHEM A104</td>
<td>Introduction to Organic Chemistry and Biochemistry (3) and</td>
<td>4-7</td>
</tr>
<tr>
<td>CHEM A104L</td>
<td>Introduction to Organic Chemistry and Biochemistry Laboratory (1)</td>
<td></td>
</tr>
<tr>
<td>CHEM A106</td>
<td>General Chemistry II (3) and</td>
<td></td>
</tr>
<tr>
<td>CHEM A106L</td>
<td>General Chemistry II Laboratory (1)</td>
<td></td>
</tr>
<tr>
<td>CHEM A321</td>
<td>Organic Chemistry I (3)</td>
<td></td>
</tr>
</tbody>
</table>
CIS A105 Introduction to Personal Computers and Application Software (3)
or
CIS A110 Computer Concepts in Business 3
ENGL A212 Technical Writing (3) 3
or
ENGL A213 Writing in the Social and Natural Sciences (3)
MATH A107 College Algebra (or any MATH course for which MATH A107 is a prerequisite) 3-4
PHIL A302 Biomedical Ethics (3) 3
or
PHIL A305 Professional Ethics (3)
STAT A252 Elementary Statistics (3) 3-4
or
STAT A253 Applied Statistics for the Sciences (or any STAT course for which STAT A252 or STAT A253 is a prerequisite) (4)

Major Requirements
1. Complete the following major courses with a minimum grade of C or P (71-72 credits):
   MEDT A132 Introduction to Laboratory Medicine (3) 3-4
   or
   MEDT A101 Phlebotomy Procedures (3)
   and
   MEDT A133 Basic Techniques in Laboratory Medicine (1)
   MEDT A202 Clinical Chemistry 6
   MEDT A203 Clinical Microbiology 6
   MEDT A204 Hematology and Coagulation 6
   MEDT A206 Immunology and Blood Banking 6
   MEDT A208 Urine and Body Fluid Analysis 3
   MEDT A250 Cultural Diversity in Health Care 1
   MEDT A301 Clinical Molecular Biology 4
   MEDT A302 Clinical Laboratory Education and Management 4
   MEDT A303 Advanced Clinical Microbiology 6
   MEDT A401 Introduction to Research 2
   MEDT A495 Medical Laboratory Science Practicum (12) 24
   or
   MEDT A395 Medical Laboratory Technology Practicum (12)
   and
   MEDT A495 Medical Laboratory Science Practicum (12)

2. A total of 120-129 credits is required for the degree, of which 42 credits must be upper division.

FACULTY
Heidi Mannion, Professor, hamannion@uaa.alaska.edu
David Pierce, Term Assistant Professor, dpierce14@uaa.alaska.edu
Steve Pyle, Term Assistant Professor, spyle@uaa.alaska.edu
Gloria Tomich, Professor, gatomich@uaa.alaska.edu
Pharmacy technicians work in pharmacies under the direct supervision of a pharmacist. Under supervision they help prepare prescriptions, sometimes measuring, mixing, packaging, labeling and delivering medications to patients. They order supplies and help to keep pharmacy equipment clean. Pharmacy technicians also help to maintain confidential drug and patient records. Graduates of this program will assist licensed pharmacists as they provide medications and other drug devices to patients.

**Occupational Endorsement Certificate, Pharmacy Technology**

The occupational endorsement is not contingent upon the student passing any type of external certification or licensure examination. Students should note that although this program has no age restrictions, the state of Alaska requires that all pharmacy technicians be at least 18 years of age prior to licensure.

**Admission Requirements**

Complete the Occupational Endorsement Certificate Admission Requirements in Chapter 7.
The mission of the Medical Laboratory Science Department is to graduate competent and ethical clinical laboratory professionals with the knowledge and the skills for career entry. It is also the department’s mission to prepare graduates for leadership roles in the clinical laboratory and professional organizations and to instill an understanding of the need for maintaining continuing competency in a rapidly changing and dynamic profession.

The Medical Laboratory Science Department has a strong commitment to the career ladder approach to higher education. With career ladder programs, the students enrolled in the Bachelor of Science have an option to gain phlebotomy certification in one year and medical laboratory technician certification in two years as they pursue a bachelor’s degree. The AAS graduates who wish to obtain a bachelor’s degree in Medical Laboratory Science may “career ladder” without loss of credit.

General admission requirements for all students entering programs offered by the Medical Laboratory Science Department include:

1. Complete the Medical Laboratory Science program application.
2. Read and sign the Essential Requirements for Enrollment.
3. High school diploma or GED equivalency.
4. Documentation of the following prior to enrollment in either MEDT A101 or MEDT A132:
   - Immunity to rubella, rubeola, mumps and chicken pox confirmed by titer or current immunization.
   - Immunity to hepatitis A and hepatitis B. Students must have started the immunization series prior to enrolling in the courses.
   - Proof of one dose of Tdap as an adult followed byTd booster every ten years thereafter.
   - Freedom from active tuberculosis, demonstrated by initial 2-step PPD followed by annual PPD. If PPD is positive, proof of negative chest x-ray is required.
5. Documentation of the following prior to enrolling and maintained through the duration of enrollment in a practicum (MEDT A195A, MEDT A195B, MEDT A395 or MEDT A495):
   - Influenza immunization for students enrolling in clinical practicums during flu season.
   - Criminal background check within six months prior to start of practicum; some facilities also require drug screening.
   - Personal medical insurance.
   - Current certificate in Basic Life Support for Health Care Providers (BLS-HCP) issued by the American Heart Association.

Additional admission requirements are listed under program descriptions.

The AAS in Medical Laboratory Technology and the BS in Medical Laboratory Science programs are accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS), 5600 N. River Road, Suite 720, Rosemont, IL 60018-5119, (773) 714-8880. NAACLS is recognized by the United States Department of Education and by the Council for Higher Education.

Advising

All students are encouraged to meet with their academic advisor each semester for the purpose of reviewing their academic progress and planning future courses. It is particularly important for students to meet with their advisor whenever academic difficulties arise.

Honors in Medical Laboratory Science

Students majoring in Medical Laboratory Science are eligible to graduate with departmental honors by satisfying the following requirements:

1. Meet the requirements for a BS in Medical Laboratory Science.
2. Earn a grade point average of 3.5 or higher in courses applicable to the degree requirements. Only UAA and transfer courses taken within the last seven years will be included in the GPA for departmental honors.
3. Obtain approval to enroll in the Honors Elective from the program director.
4. Pass the Honors Elective course, MEDT A402, Medical Laboratory Science Honors: Quality Assessment Project.
Occupational Endorsement Certificate, Phlebotomist

Phlebotomists obtain blood and other samples for laboratory testing. They establish professional relationships with their patients, collect and prepare specimens, maintain collection areas and equipment, and perform record keeping duties. Students are eligible to sit for national certification examinations in phlebotomy after completion of MEDT A195A.

Program Student Learning Outcomes

The specific educational outcomes for the program are to produce graduates who:

- Select the appropriate site and demonstrate the proper technique for collecting, handling, and processing blood and non-blood specimens.
- Demonstrate professional conduct, stress management, interpersonal, and communication skills with patients, peers, other health care personnel, and the public, recognizing possible legal implications.
- Recognize and adhere to infection control and safety policies and procedures.
- Demonstrate an understanding of test requisitioning.
- Identify factors that affect specimen collection procedures and test results, and take appropriate actions within predetermined limits when applicable.
- Recognize and act upon individual needs for continuing education as a function of growth and maintenance of professional competence.
- Perform point-of-care testing according to standard operating procedures.

Certificate Requirements

2. Complete the General Admissions Requirements for all programs in the Medical Laboratory Science Department that are listed at the beginning of this section.
3. The Phlebotomist Occupational Endorsement Certificate is offered on campus and by distance delivery. Distance students must contact the Medical Laboratory Science Department to arrange for a mentor and clinical training facility prior to enrolling in any of the courses.
4. Students must earn a minimum grade of C or P in the following courses:
   - MEDT A101 Phlebotomy Procedures 3
   - MEDT A110 Specimen Processing 3
   - MEDT A195A Phlebotomy Practicum 3
5. A total of 9 credits is required for the OEC.

Occupational Endorsement Certificate, Clinical Assistant

Clinical assistants perform basic laboratory testing in medical laboratories, working under the supervision of a medical laboratory scientist, medical laboratory technician, or pathologist. A clinical assistant collects and processes blood specimens and performs waived testing procedures in chemistry, hematology, microbiology, and urinalysis.

Program Student Learning Outcomes

The specific educational outcomes for the program are to produce graduates who have met the educational outcomes for the Phlebotomist OEC and who:

- Perform waived testing according to standard operating procedures.
- Monitor quality control within predetermined limits.
- Select both appropriate media for inoculation of clinical specimens and incubations conditions based on the culture requirements for the potential pathogens.

Certificate Requirements

2. Complete the General Admissions Requirements for all programs in the Medical Laboratory Science Department that are listed at the beginning of this section.
3. The Clinical Assistant Occupational Endorsement Certificate is offered on campus and by distance delivery. Distance students must contact the Medical Laboratory Science Department to arrange for a mentor and clinical training facility prior to enrolling in any of the courses.
4. Students must earn a minimum grade of C or P in the following courses:
   - MEDT A101 Phlebotomy Procedures 3
   - MEDT A105 Microbiology for Clinical Assistants 3
   - MEDT A106 Waived Testing 4
   - MEDT A110 Specimen Processing 3
   - MEDT A195A Phlebotomy Practicum 3
5. A total of 20 credits is required for the OEC.

**Associate of Applied Science, Medical Laboratory Technology**

The National Accrediting Agency for Clinical Laboratory Sciences provides the following description: At career entry, the medical laboratory technician will be able to perform routine clinical laboratory tests (such as hematology, clinical chemistry, immunohematology, microbiology, serology/immunology, coagulation, molecular, and other emerging diagnostics) as the primary analyst making specimen-oriented decisions on predetermined criteria, including a working knowledge of critical values. Communication skills will extend to frequent interactions with members of the health care team, external relations, customer service and patient education. The level of analysis ranges from waived and point-of-care testing to complex testing encompassing all major areas of the clinical laboratory. The medical laboratory technician will have diverse functions in areas of pre-analytical, analytical, and post-analytical processes. The medical laboratory technician will have responsibilities for information processing, training, and quality control monitoring wherever clinical laboratory testing is performed.

Upon graduation and initial employment, the medical laboratory technician should be able to demonstrate entry-level competencies in the above areas of professional practice. Graduates are eligible to sit for national certification examinations in medical laboratory technology after completing the program.

**Program Student Learning Outcomes**

The specific educational outcomes for the program are to produce graduates who:

- Demonstrate entry-level competencies for medical laboratory technicians in the following disciplines: hematology, chemistry, immunology, blood bank, urine and body fluid analysis, microbiology, and laboratory operations.
- Demonstrate professional behavior including sound work ethics, cultural responsiveness, and appearance while interacting with patients and healthcare professionals.
- Demonstrate continuing competency through certification maintenance.
- Demonstrate a commitment to the laboratory profession through active involvement in a professional organization.

**Admission Requirements**

1. Complete the Associate’s Degree Programs Admission Requirements at the beginning of Chapter 7.
2. Complete the General Admissions Requirements for all programs in the Medical Laboratory Science Department that are listed at the beginning of this section.
3. Meet with academic advisor regarding application, program admission, and development of a program of study.

**Academic Progress**

In order to progress within the Associate of Applied Science in Medical Laboratory Technology program, students must earn a minimum grade of C or P in all Medical Laboratory Science (MEDT) courses required for the degree and demonstrate professional behavior as defined by the “Medical Laboratory Science Department Core Abilities” and associated behavior criteria. Satisfactory progress is demonstrated by exhibiting Developing Level Criteria by the end of the second year (assessed by core faculty), and Entry Level Criteria by the end of the clinical practicum (assessed by clinical instructors). Students must receive a score of 3 or higher on the Developing Level Criteria in order to progress in the program and demonstrate the Critical Core Abilities during clinical practicum in order to graduate from the program. Students who are unable to earn an acceptable grade in the MEDT courses during their initial enrollment may attempt to earn a satisfactory grade one additional time on a space available basis.

When the number of students admitted to the program exceeds the number that can be accommodated in the clinical practicum, students are placed on an alternate list and informed they can complete their practicum should space become available, or they are given preference for a subsequent semester.

Students receive a letter stating they are an alternate; they sign and return the letter acknowledging alternate status. The University of Alaska Anchorage is affiliated with clinical sites throughout the state of Alaska. Students training at clinical sites outside of Anchorage may incur additional costs related to travel and housing. The practicum coordinator will ask for volunteers to train outside of Anchorage. If there are no volunteers students may be assigned placement. Students with higher GPA's in the MEDT courses will have first preference for location. If a student is unable or unwilling to go outside of Anchorage, they will be placed on the alternate list and given preference for a subsequent semester.

**Degree Requirements**

1. Complete the General University Requirements for Associate of Applied Science Degrees found at the beginning of this chapter.
2. Complete the General Course Requirements for Associate of Applied Science degrees found at the beginning of this chapter. In the Medical Laboratory Technology program, the required support courses meet the AAS General Course Requirements.
3. Complete the Required Support Courses and the Major Requirements listed below.
**Required Support Courses**

Complete all 21 credits of support courses for the Medical Laboratory Technology major with a minimum grade of C.

- BIOL A111 Human Anatomy and Physiology I 4
- BIOL A112 Human Anatomy and Physiology II 4
- CHEM A103/L Survey of Chemistry with Laboratory 4
- CHEM A104 Introduction to Organic Chemistry and Biochemistry 3
- CIS A105 Introduction to Personal Computers and Application Software (3)
  or
- CIS A110 Computer Concepts in Business (3)
- ENGL A212 Technical Writing (3)
  or
- ENGL A213 Writing in the Social and Natural Sciences (3)

**Major Requirements**

1. Complete the following major courses with a minimum grade of C or P (43-44 credits):
   - MEDT A132 Introduction to Laboratory Medicine (3) 3-4
   - or
   - MEDT A101 Phlebotomy Procedures (3)
   and
   - MEDT A133 Basic Techniques in Laboratory Medicine (1)
   - MEDT A202 Clinical Chemistry 6
   - MEDT A203 Clinical Microbiology 6
   - MEDT A204 Hematology and Coagulation 6
   - MEDT A206 Immunology and Blood Banking 6
   - MEDT A208 Urine and Body Fluid Analysis 3
   - MEDT A250 Cultural Diversity in Health Care 1
   - MEDT A395 Medical Laboratory Technology Practicum 12

2. A total of 70-71 credits is required for the degree.

**Bachelor of Science, Medical Laboratory Science**

**Medical Laboratory Scientist**

The National Accrediting Agency for Clinical Laboratory Sciences provides the following description: At career entry, the medical laboratory scientist will be proficient in performing clinical laboratory tests in areas such as hematology, clinical chemistry, immunohematology, microbiology, serology/immunology, coagulation, and molecular and other emerging diagnostics, and will be able to play a role in the development and evaluation of test systems and interpretive algorithms. The graduates will have diverse responsibilities in areas of analysis and clinical decision-making, regulatory compliance with applicable regulations, education, and quality assurance/ performance improvement. They will also possess basic knowledge, skills and relevant experience in:

- Communications to enable consultative interactions with members of the health care team, external relations, customer service and patient education;
- Financial operations, marketing and human resource management of the clinical laboratory to enable cost-effective, high quality, value-added laboratory services;
- Information management to enable effective, timely, accurate and cost-effective reporting of laboratory-generated information and;
- Research design/practice sufficient to evaluate published studies as an informed consumer.

Upon graduation and initial employment, the medical laboratory scientist should be able to demonstrate entry-level competencies in the above areas of professional practice. Graduates are eligible to sit for national certification examinations in medical laboratory science after completion of the program.

**Program Student Learning Outcomes**

The specific educational outcomes for the program are to produce graduates who:

- Demonstrate entry-level competencies for medical laboratory scientists in the following disciplines: hematology, chemistry, immunology, blood bank, urine and body fluid analysis, microbiology, and laboratory operations.
• Demonstrate professional behavior including sound work ethics, cultural responsiveness and appearance while interacting with patients and health care professionals.
• Evaluate published studies as an informed consumer.
• Demonstrate continuing competency by certification maintenance.
• Use educator skills to create and deliver an instructional unit.
• Use laboratory management skills to plan, organize, staff and cost out a new clinical laboratory service.
• Demonstrate a commitment to the laboratory profession through active involvement in a professional organization.

Admission Requirements
1. Complete the Baccalaureate Degree Programs Admission Requirements in Chapter 7.
2. Complete the General Admission Requirements for all programs in the Medical Laboratory Science Department that are listed at the beginning of this section.
3. Meet with academic advisor regarding application, program admission, and development of a program of study.

Academic Progress
In order to progress within the Bachelor of Science Medical Laboratory Science program, students must earn a minimum grade of C or P in all Medical Laboratory Science courses required for the degree and demonstrate professional behavior as defined by the "Medical Laboratory Science Department Core Abilities" and associated behavior criteria. Satisfactory progress is demonstrated by exhibiting Developing Level Criteria by the end of the second year (assessed by core faculty), and Entry Level Criteria by the end of the Medical Laboratory Science Practicum (assessed by clinical instructors). Students must receive a score of 3 or higher on the Developing Level Criteria in order to progress in the program and demonstrate the Critical Core Abilities during clinical practicum in order to graduate from the program. Students who are unable to earn an acceptable grade in the MEDT courses during their initial enrollment may attempt to earn a satisfactory grade one additional time on a space available basis.

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Degree Requirements
1. Complete the General University Requirements for Baccalaureate Degrees listed at the beginning of this chapter.
2. Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter. In the Medical Laboratory Science program, the required support courses meet the Quantitative Skills and Natural Science Requirements.
3. Complete the Required Support Courses and Major Requirements listed below.

Required Support Courses
Complete all 31-36 credits of support courses for the Medical Laboratory Science major with a minimum grade of C.

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<tr>
<td>CHEM A104</td>
<td>General Chemistry I and Biochemistry (3)</td>
<td>4-7</td>
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<tr>
<td>CHEM A105</td>
<td>General Chemistry I Laboratory (1)</td>
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<td>CHEM A105L</td>
<td>General Chemistry I Laboratory (1)</td>
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<tr>
<td>CHEM A106</td>
<td>General Chemistry II (3) and CHEM A106L</td>
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</table>
CHEM A106L General Chemistry II Laboratory (1) and
CHEM A321 Organic Chemistry I (3)
CIS A105 Introduction to Personal Computers and Application Software (3)

or
CIS A110 Computer Concepts in Business 3
ENGL A212 Technical Writing (3) 3

or
ENGL A213 Writing in the Social and Natural Sciences (3)
MATH A107 College Algebra (or any MATH course for which MATH A107 is a prerequisite) 3-4
PHIL A302 Biomedical Ethics (3) 3

or
PHIL A305 Professional Ethics (3)
STAT A252 Elementary Statistics (3) 3-4

or
STAT A253 Applied Statistics for the Sciences (or any STAT course for which STAT A252 or STAT A253 is a prerequisite) (4)

Major Requirements

1. Complete the following major courses with a minimum grade of C or P (71-72 credits):
   MDEV A132 Introduction to Laboratory Medicine (3) 3-4
   or
   MDEV A101 Phlebotomy Procedures (3)
   and
   MDEV A133 Basic Techniques in Laboratory Medicine (1)
   MDEV A202 Clinical Chemistry 6
   MDEV A203 Clinical Microbiology 6
   MDEV A204 Hematology and Coagulation 6
   MDEV A206 Immunology and Blood Banking 6
   MDEV A208 Urine and Body Fluid Analysis 3
   MDEV A250 Cultural Diversity in Health Care 1
   MDEV A301 Clinical Molecular Biology 4
   MDEV A302 Clinical Laboratory Education and Management 4
   MDEV A303 Advanced Clinical Microbiology 6
   MDEV A401 Introduction to Research 2
   MDEV A495 Medical Laboratory Science Practicum (12) 24
   or
   MDEV A395 Medical Laboratory Technology Practicum (12)
   and
   MDEV A495 Medical Laboratory Science Practicum (12)

2. A total of 120-129 credits is required for the degree, of which 42 credits must be upper division.

FACULTY
Heidi Mannion, Professor, hmannion@uas.alaska.edu
David Pierce, Term Assistant Professor, dpierce@uas.alaska.edu
Steve Pyle, Term Assistant Professor, spyle@uas.alaska.edu
Gloria Tomich, Associate Professor, gtomich@uas.alaska.edu
PHARMACY TECHNOLOGY

Allied Health Sciences Building (AHS), Room 161, (907) 786-6928
www.uaa.alaska.edu/alliedhealth/academics/pharmacy.cfm

Pharmacy technicians work in pharmacies under the direct supervision of a pharmacist. Under supervision they help prepare prescriptions, sometimes measuring, mixing, packaging, labeling and delivering medications to patients. They order supplies and help to keep pharmacy equipment clean. Pharmacy technicians also help to maintain confidential drug and patient records. Graduates of this program will assist licensed pharmacists as they provide medications and other drug devices to patients.

Occupational Endorsement Certificate, Pharmacy Technology

The occupational endorsement is not contingent upon the student passing any type of external certification or licensure examination. Students should note that although this program has no age restrictions, the state of Alaska requires that all pharmacy technicians be at least 18 years of age prior to licensure.

Admission Requirements

Complete the Occupational Endorsement Certificate Admission Requirements in Chapter 7.
TO: Governance Committees  
FROM: Randy Magen, Associate Dean College of Health  
DATE: December 23, 2013  
SUBJ: Creation of College of Health Prefix (COHI)

The Issues
A proposed course was approved through department (Health Sciences, Human Services, Justice Center, Social Work and Psychology) and College curriculum committees (both College of Health and College of Arts and Sciences). This course was not only cross-listed between the five departments and two colleges, it was also stacked.

Upon reaching the governance office, Lora Volden contacted the initiators and informed them that such a course was “unsustainable” due to limitations in Banner and the scheduling program used by the Registrar's office. A further issue was, from the Registrar’s experience, many units at some point stop coordinating the scheduling of cross-listed courses, which adds to the difficulties. The Banner issue is that the system can only handle two equivalent courses (think of this as a course cross-listed with two departments). The scheduling program requires that the number of seats for each discipline be entered as well as a capacity for each discipline. When the seats are filled for one discipline, students who attempt to register under that discipline are locked out even though seats may be unfilled from other disciplines. Furthermore, the massively cross-listed and stacked course would require 10 class scheduling forms, as a result the Registrar's office would not be able to use the automated class scheduling program. Lora added that her inquiries with colleagues at other universities suggests that many colleges are moving away from cross-listing and stacked courses, partly because of the confusion it creates for students.

A meeting was held to understand the issue of “unsustainability” and to craft a solution. Attending the meeting were Susan Kalina, Lora Volden, David Yesner and Randy Magen.

Solutions
Two possible solutions were discussed. Both involve the creation of a new course prefix. The first would be "owned" by the Office of Academic Affairs and courses within the prefix would be "owned" by Colleges or possibly departments (units). The general sentiment at the meeting was that while this could be workable for one or two courses, it was not a long-term solution, particularly if the College of Health is moving toward more interprofessional courses. Courses "owned" by different Colleges or departments (units) under the same prefix would likely lead to confusion on the part of students.

A more promising solution is reflected in the attached Prefix Action Request (PAR) to create a College of Health prefix, COHI. This solution is preferred because it would be clearer for students and logical in terms of the purpose of the courses (interprofessional). Since the College has the ability to allocate tuition dollars to units, this solution also allows tuition dollars to flow back to units providing instructors or perhaps based on the student's major. In follow up email with Erin Holmes, Associate
Vice Provost in charge of Institutional Research, it appears that Student Credit Hour production could also be allocated to units based on student major or perhaps instructor department.

An issue with both solutions is that a course with the College of Health prefix would not appear as an elective within the student's major. That is, many departments require students to take X number of electives within the major (within the prefix). A temporary solution to this problem is a one-year blanket petition covering the specific course to allow it to be counted as an elective within the major. A longer-term solution will be to make changes to catalog copy. Another advantage of the College of Health prefix is that a catalog change could be for the entire prefix, as opposed to one course. These catalog changes will be forthcoming.

The final piece of work will be to create a Memorandum of Understanding between the units involved in the course so that issues related to instructor workload, student credit hour production, tuition, are made explicit.
Program/Prefix Action Request
University of Alaska Anchorage
Proposal to Initiate, Add, Change, or Delete a Program of Study or Prefix

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<thead>
<tr>
<th>1a. School or College</th>
<th>1b. Department</th>
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<tbody>
<tr>
<td>CH College of Health</td>
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2. Complete Program Title/Prefix
College of Health/ COHI

3. Type of Program
Choose one from the appropriate drop down menu:
Undergraduate: or Graduate:
Other: specify type in box 2

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

4. Type of Action:
<table>
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<tr>
<th>PROGRAM</th>
<th>PREFIX</th>
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<tbody>
<tr>
<td>☐ Add</td>
<td>☑ Add</td>
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<tr>
<td>☐ Change</td>
<td>☐ Change</td>
</tr>
<tr>
<td>☐ Delete</td>
<td>☐ Inactivate</td>
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</tbody>
</table>

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

6a. Coordination with Affected Units
Department, School, or College: College of Health
Initiator Name (typed): Randy Magen
Initiator Signed Initials: __________ Date: ______________

6b. Coordination Email submitted to Faculty Listserv (uaa-faculty@lists.uaa.alaska.edu) Date: 12/23/2013

6c. Coordination with Library Liaison Date: 12/23/2013

7. Title and Program Description - Please attach the following:
☐ Cover Memo ☑ Catalog Copy in Word using the track changes function

8. Justification for Action
This prefix will house interprofessional courses offered by units within the College of Health. The alternative approach, cross listing a course across multiple departments is not sustainable due to limitations in Banner and the scheduling program used by the Registrar's office.

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<th>College/School Curriculum Committee Chair Date</th>
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<tr>
<th>Undergraduate/Graduate Academic Board Chair Date</th>
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<tr>
<th>Provost or Designee Date</th>
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November 15, 2013

To: Faculty Senate Executive Board

Cc: Bruce Schultz, Vice Chancellor for Student Affairs
    Elisha “Bear” Baker, Provost
    Eric Pedersen, Associate Vice Chancellor for Enrollment Services

From: Lora Volden, University Registrar
      Susan Kalina, Vice Provost for Undergraduate Academic Affairs

Re: Academic Policies regarding Occupational Endorsement Certificates (OEC)

Issue
Since the initial creation of Occupational Endorsement Certificates in fall 2006 there have continued to be a number of questions regarding application of academic policies. Although these policies exist in the catalog, they currently apply only to traditional one and two year certificate and degree seeking students. Examples of policy questions that have arisen for OECs include:

- Should students admitted to OECs be subject to academic standing (warning, probation, Dean’s List, etc.)?
- Should students be allowed to utilize transfer work to meet requirements of OECs?
- May students/departments use academic petitions to meet OEC requirements?

Additionally, a process for awarding an OEC was developed which differs significantly from the awarding of other certificates and degrees. This process has led to confusion on the program level as well as in the Office of the Registrar and Enrollment Services.

Considerations
Although OEC students receive the same administrative services (admissions, degree audits and use of DegreeWorks, and financial aid), they do not currently pay the admission or graduation fees that other degree-seeking students pay.

Proposal
To assure consistency for all students, students admitted to an OEC should be subject to the same academic policies as other certificate and degree seeking students. Policies regarding academic standing will be updated to include OECs and students will be able to utilize academic petitions to meet OEC requirements. However, since most OECs require a small number of credits, we recommend that transcripts from other institutions are only evaluated when classes from the institution are listed on an academic petition as meeting OEC requirements. This is similar to how we handle graduate degrees and is intended to prevent over awarding of departmental electives that become problematic with federal regulations to satisfactory academic progress and also provides a more efficient work flow.
Once a student has completed all requirements for an OEC, including any necessary academic petitions, the student will submit an application for graduation (similar to all certificate and degree seeking students). The OEC will then be awarded and indicated on the student transcript and the student and department notified via email of the outcome. In keeping with current practice, the student will not be required to pay the standard $50 application for graduation fee and as such will not receive a UAA diploma or be invited to participate in the annual commencement ceremony. Departments who chose to create and award departmental completion certificates are encouraged to use the attached template after they have received confirmation from the Registrar’s Office that the OEC has been awarded.