I. Roll
( ) Alberta Harder (FS)  ( ) Vacant (CBPP)  ( ) Kevin Keating (LIB)
( ) Utpal Dutta (FS)  ( ) Vacant (COH)  ( ) Rick Adams (KPC)
( ) Francisco Miranda (CAS, Chair)  ( ) Vacant (COH)  ( ) Sheri Denison (Mat-su)
( ) Barbara Harville (CAS)  ( ) Irasema Ortega (COE)  ( ) Jared Griffin (Kod)
( ) Vacant (CAS)  ( ) Carrie King (CTC)  ( ) Christina Stuive (ADV)
( ) Vacant (CAS)  ( ) Jeff Hoffman (SOE)

Ex-Officio Members
( ) Susan Kalina
( ) Lora Volden
( ) Scheduling and Publications

II. Approval of the Agenda (pg. 1)

III. Approval of Meeting Summary (pg. 2-3)

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

VII. Program/Course Action Request- First Readings
Add  FIRE A231  Firefighter II (4 cr)(2+6)(pg. 4-9)
Add  ME A451  Aerodynamics (stacked with ME A651)(3 cr)(3+0)(pg. 10-14)
Add  ACCT A422  Justice for Fraud Victims (3 cr)(3+0)(pg. 15-19)
Chg  CIS A345  Managing Data Communications and Computer Networks (3 cr)(3+0)(pg. 20-23)
Chg  CIS A365  Object-Oriented Programming (3 cr)(3+0)(pg. 24-29)
Chg  CIS A390  Selected Topics in Management Information Systems (1-6 cr)(1-6+0)(pg. 30-33)

VIII. Old Business

IX. New Business
A. General University Requirement related to catalog year (pg. 34)

X. Informational Items and Adjournment
A. Memo re: JPC Contact Hour Catalogue Edits (pg. 35)
B. Faculty Alliance Motion 2014-01: Statewide Minimum Admissions Standards for Baccalaureate Programs (pg. 36-37)
Undergraduate Academic Board
Summary

October 10, 2014
2:00-5:00
ADM 204

I. Roll
(x) Alberta Harder (FS)
(x) Utpal Dutta (FS)
(x) Francisco Miranda (CAS, Chair)
(x) Barbara Harville (CAS)
( ) Vacant (CAS)
( ) Vacant (CBPP)
( ) Vacant (COH)
(x) Irasema Ortega (COE)
( ) Vacant (CTC)
(x) Carrie King (CTC)
(x) Jeff Hoffman (SOE)
(x) Kevin Keating (LIB)
(x) Rick Adams (KPC)
(x) Sheri Denison (Mat-su)
(x) Jared Griffin (Kod)
(x) Christina Stuive (ADV)

Ex-Officio Members
(x) Susan Kalina
( ) Lora Volden
( ) Vacant

II. Approval of the Agenda (pg. 1-2)
Add ‘Discussion of Board Values’ to the New Business
Postpone BIOL A481 until GERC approval
Approved as amended

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

IV. Administrative Report
A. Vice Provost for Undergraduate Academic Affairs Susan Kalina
Discussed the credit review process: see Informational Items for more information

B. University Registrar Lora Volden
No Report

V. Chair’s Report
A. UAB Chair- Francisco Miranda

B. GERC
Approved BIOL A473
Forum will be held on October 24th to discuss the GER and GELO outcomes

VI. Program/Course Action Request- Second Readings
Chg ENGL A109 Introduction to Writing in Academic Contexts (3 cr)(3+0)(pg. 5-10)
Unanimously Approved

Chg BIOL A473 Conservation Biology (GER)(3 cr)(3+0)(pg. 11-15)
Unanimously Approved

Chg BIOL A481 Marine Biology (GER)(3 cr)(3+0)(pg. 16-20)

VII. Program/Course Action Request- First Readings
Add BIOL A482 Spatial Ecology (3 cr)(3+0)(pg. 21-25)
Add BIOL A483 Exploration Ecology (2 cr)(2+0)(pg. 26-30)
Add BIOL A484 Experiential Learning: Exploration Ecology Field Study (4 cr)(0+8)(pg. 31-35)
Add BIOL A486 Evolutionary Ecology (3 cr)(3+0)(pg. 36-40)
Chg BIOL A487 Comparative Anatomy of Vertebrates (3 cr)(3+0)(pg. 41-43)
Chg BIOL A488 Experiential Learning: Development Biology (4 cr)(2+4)(pg. 44-47)

BIOL A482 – BIOL A488 Waive first reading, approved for second
Chg  BIOL A489  Population Genetics and Evolutionary Processes (GER)(3 cr)(3+0)(pg. 48-52)

Accepted for first reading, going to GERC

Chg  BIOL A495  Instructional Practicum: Laboratory (1 cr)(0+3)(pg. 53-55)

Waive first reading, approved for second

Chg  Bachelor of Arts, Biological Sciences (pg. 56-57)
Chg  Bachelor of Science, Biological Sciences (pg. 58-80)
Chg  Bachelor of Science, Natural Sciences (pg. 81-107)

Waive first reading, approved for second

VIII.  Old Business
IX.  New Business
   A.  Discussion of Board Values
       Barbara Harville presented a draft presentation of the board values including:
           •  Values Statement
           •  Priorities, Procedures, and Processes Statement
           •  UAB Priorities for the institution and faculty initiators
           •  Board Specific Priorities, procedures, and processes

X.  Informational Items and Adjournment
   A.  Credit Hour Review Process: In response to a new NWCCU policy on credit hours, an
       AY14 subcommittee of the UAB and GAB recommended a process to review class
       scheduling practices relative to approved CAR/CCG credit hours.  In Fall 2014 UAA ran
       a pilot, which focused on traditional face-to-face offerings.  After filtering for apparent
       face-to-face delivery, a total of 143 course sections were sent to the colleges for review.
       Findings and Actions: Most of the courses integrated nontraditional components, such as
       a practicum or 0-credit lab, and were found to be in compliance.  Sixteen sections were
       rescheduled to meet the required contact hours.  Departments will revise the curriculum
       documents for nine courses in order to reflect current practice.
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>KP KPC</td>
<td>No Division Code</td>
<td>Business and Industry</td>
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<thead>
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<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</th>
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<tbody>
<tr>
<td>FIRE</td>
<td>A231</td>
<td>none</td>
<td>4</td>
<td>(Lecture + Lab)</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(2+6)</td>
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<table>
<thead>
<tr>
<th>6. Complete Course Title</th>
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<tbody>
<tr>
<td>Firefighter II</td>
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<table>
<thead>
<tr>
<th>Abbreviated Title for Transcript (30 character)</th>
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<table>
<thead>
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<th>7. Type of Course</th>
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</thead>
<tbody>
<tr>
<td>☒ Academic</td>
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</tbody>
</table>

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

If a change, mark appropriate boxes:  
☐ Prefix  
☐ Credits  
☐ Title  
☐ Grading Basis  
☐ Course Description  
☐ Test Score Prerequisites  
☐ Automatic Restrictions  
☐ Other (please specify)  
☐ Course Number  
☐ Contact Hours  
☐ Repeat Status  
☐ Cross-Listed/Stacked  
☐ Course Prerequisites  
☐ Co-requisites  
☐ Registration Restrictions  
☐ General Education Requirement  
☐ Class  
☐ Level  
☐ College  
☐ Major  
☐ Repeat Status No  
☐ # of Repeats  
☐ Max Credits  

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<th>9. Repeat Status No</th>
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<tr>
<td>☒ A-F</td>
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<tr>
<th>10. Grading Basis</th>
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<td>☒ A-F</td>
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<tr>
<th>11. Implementation Date</th>
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<tbody>
<tr>
<td>From: Spring/2015</td>
</tr>
<tr>
<td>To: /</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>12. Cross Listed with</th>
</tr>
</thead>
</table>

Cross-Listed Coordination Signature

| 13. 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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</thead>
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<tr>
<td>1.</td>
<td></td>
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</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
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<tr>
<td>3.</td>
<td></td>
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</tr>
</tbody>
</table>

Initiator Name (typed): Bryan Crisp  
Initiator Signed Initials: __________

Date: __________________

<table>
<thead>
<tr>
<th>13b. Coordination Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Submitted to Faculty Listserv: (<a href="mailto:uaa-faculty@lists.uaa.alaska.edu">uaa-faculty@lists.uaa.alaska.edu</a>)</td>
</tr>
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<table>
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<tr>
<th>13c. Coordination with Library Liaison</th>
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<td>Date: 03/27/2014</td>
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<th>14. General Education Requirement</th>
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<tr>
<td>Mark appropriate box:</td>
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<tr>
<td>☐ Oral Communication</td>
</tr>
<tr>
<td>☐ Written Communication</td>
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<tr>
<td>☐ Quantitative Skills</td>
</tr>
<tr>
<td>☐ Social Sciences</td>
</tr>
<tr>
<td>☐ Natural Sciences</td>
</tr>
<tr>
<td>☐ Fine Arts</td>
</tr>
<tr>
<td>☐ Humanities</td>
</tr>
<tr>
<td>☐ Integrative Capstone</td>
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</table>

<table>
<thead>
<tr>
<th>15. Course Description (suggested length 20 to 50 words)</th>
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<tbody>
<tr>
<td>Introduces advanced firefighting operations and fundamentals including: incident management, evidence protection and incident reports; communications, foam operations, flammable liquid and gas fires, vehicle extrication, special rescue teams, fire safety and pre-incident surveys and training; equipment maintenance and testing. Special Note: Successful completion of Firefighter II will qualify and prepare the student to sit for Alaska State Firefighter II certification exam. All students are required to wear a complete set of fire department approved protective clothing (turnout gear) during skills training. Turnout gear provided.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>16a. Course Prerequisite(s) (list prefix and number or test code and score)</th>
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<tbody>
<tr>
<td>FIRE A137</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>16b. Co-requisite(s) (concurrent enrollment required)</th>
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</table>

<table>
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<td>☐ Major</td>
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<tr>
<td>☐ Class</td>
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<tr>
<td>☐ Level</td>
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<table>
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<th>16d. Registration Restriction(s) (non-codable)</th>
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<tr>
<th>16e. Mark if course has fees</th>
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| 17. ☐ Mark if course is a selected topic course |

<table>
<thead>
<tr>
<th>19. Justification for Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course builds upon coursework for Fire Fighter I certification preparation and fulfills workforce need for Fire Fighter II certification preparation.</td>
</tr>
<tr>
<td>Initiator (faculty only)</td>
</tr>
<tr>
<td>--------------------------</td>
</tr>
<tr>
<td>Bryan Crisp</td>
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</table>

<table>
<thead>
<tr>
<th>Initiator (TYPE NAME)</th>
<th>Date</th>
<th>Approved</th>
<th>Disapproved</th>
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<thead>
<tr>
<th>Dean/Director of School/College</th>
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<th>Date</th>
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<thead>
<tr>
<th>Undergraduate/Graduate Academic Board Chair</th>
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<th>Provost or Designee</th>
<th>Date</th>
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<table>
<thead>
<tr>
<th>College/School Curriculum Committee Chair</th>
<th>Date</th>
<th>Approved</th>
<th>Disapproved</th>
</tr>
</thead>
<tbody>
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<table>
<thead>
<tr>
<th>College/School Curriculum Committee Chair</th>
<th>Date</th>
<th>Approved</th>
<th>Disapproved</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>
I. Initiation Date: March 7, 2014

II. Course Information

A. College: Kenai Peninsula College
B. Course Title: Firefighter II
C. Course Subject/Number: FIRE A231
D. Credit: 4
E. Contact Time: 2+6
F. Grading Information: A-F
G. Course Description: Introduces advanced firefighting operations and fundamentals including: incident management, evidence protection and incident reports; communications, foam operations, flammable liquid and gas fires, vehicle extrication, special rescue teams, fire safety and pre-incident surveys and training; equipment maintenance and testing.

Special Note: Successful completion of Firefighter II will qualify and prepare the student to sit for Alaska State Firefighter II certification exam. All students are required to wear a complete set of fire department approved protective clothing (turnout gear) during skills training. Turnout gear provided.

H. Status of course relative to degree or certificate programs: Elective for Associates of Applied Science in Fire and Emergency Services Technology
I. Lab Fee: Yes
J. Coordination: UAA-CTC Fire Science (Tim Benningfield)
K. Course Prerequisite: FIRE A137
L. Registration Restrictions: None

III. Course Level Justification
This course incorporates foundational knowledge obtained in FIRE A131, FIRE A133, FIRE A135 and Fire A137 to introduce advanced firefighting and rescue practices.
IV. Instructional Goals
The instructor will:
A. Provide students with the fundamentals of advanced firefighting operations, which meet the National Fire Protection Association (NFPA) standards and the State of Alaska standards to prepare for the Firefighter II certification exam.
B. Provide students with the necessary experience and content information to prepare students for the State of Alaska Firefighter II certification examination.

V. Student Learning Outcomes

<table>
<thead>
<tr>
<th>The student will be able to:</th>
<th>One or more of the following assessment methods will be used:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Determine the need for an Incident Command System (ICS) and demonstrate ability to function within the ICS.</td>
<td>Written assignments, Quizzes, Tests and Psychomotor skills testing</td>
</tr>
<tr>
<td>2. Conduct radio communications for entire team and maintain associated equipment.</td>
<td>Written assignments, Quizzes, Tests and Psychomotor skills testing</td>
</tr>
<tr>
<td>3. Demonstrate ability to respond to various fire types and fire intensities and operate and maintain firefighting and lifesaving equipment appropriate to each.</td>
<td>Written assignments, Quizzes, Tests and Psychomotor skills testing</td>
</tr>
<tr>
<td>4. Demonstrate ability to analyze fire origins and possible causes and to protect evidence.</td>
<td>Written assignments, Quizzes, Tests and Psychomotor skills testing</td>
</tr>
<tr>
<td>5. Demonstrate ability to conduct vehicle extraction and serve in a specialized rescue team.</td>
<td>Written assignments, Quizzes, Tests and Psychomotor skills testing</td>
</tr>
<tr>
<td>6. Instruct public on fire safety prevention and conduct fire safety surveys, including identifying fire suppression and detection systems and hazard identification.</td>
<td>Written assignments, Quizzes, Tests and Presentations</td>
</tr>
</tbody>
</table>

VI. Course Content Outline
A. Orientation
   1. Responsibilities
   2. Roles
B. Fire service communications
   1. Emergency messages
   2. Records and reporting
C. Incident Command System (ICS)
   1. Introduction
   2. History
   3. Characteristics
   4. Organization
   5. Concepts and terminology
   6. Implementing
   7. Working within ICS
D. Firefighter tools and equipment
   1. Search and rescue tools
   2. Tool staging
   3. Cleaning
   4. Inspecting
E. Ropes and knots
   1. Technical rescue hardware
   2. Technical rescue incidents
F. Forcible entry
   1. Tool use
   2. Tool safety
   3. Carrying tools
   4. Maintenance
   5. Types of tools
G. Ventilation
   1. Tactical priorities
   2. Indicators for roof collapse
H. Water supply
   1. Hose inspections
   2. Hose testing
   3. Hose records
I. Fire attack and foam
   1. Foam classifications
   2. Foam concentrates
   3. Foam equipment
   4. Foam application and techniques
J. Salvage and overhaul
   1. Electric generators
   2. Lighting methods
   3. Cleaning and maintenance
K. Fire suppression
   1. Command considerations
   2. Understand and coordinate interior fire attack
   3. Ventilation
   4. Flammable gas cylinders
L. Pre-incident planning
   1. Pre-incident plan
   2. Conducting pre-incident survey
   3. Tactical information
   4. Occupancy considerations
   5. Special considerations
M. Vehicle rescue and extrication
   1. Types
   2. Vehicle anatomy
   3. Responding
   4. Arrival and size-up
   5. Gaining access and disentangling victims
   6. Tools
7. Removing and transporting victims
8. Terminating incident

N. Assisting special rescue teams
   1. Types of resources
   2. Guidelines for operations
   3. Steps of special rescue
   4. Post incident duties
   5. General rescue scene procedures
   6. Assisting rescue crews

O. Fire prevention and public education
   1. Defining fire prevention
   2. Fire cause determination
   3. Conducting fire safety surveys
   4. Conducting fire station tours

P. Fire detection, protection and suppression systems
   1. Alarm and detection systems
   2. Fire suppression systems

Q. Fire cause determination
   1. Investigation personnel
   2. Determining origin and cause
   3. Securing and transferring property
   4. Incendiary fires
   5. Cause determination
   6. Arsonists

VII. Suggested Texts:


VIII. Bibliography


## 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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</thead>
<tbody>
<tr>
<td>EN SOENGR</td>
<td>No Division Code</td>
<td>Mechanical Engineering</td>
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<tr>
<th>2. Course Prefix</th>
<th>3. Course Number</th>
<th>4. Previous Course Prefix &amp; Number</th>
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<th>5b. Contact Hours (Lecture + Lab)</th>
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<tr>
<td>ME</td>
<td>A451</td>
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<th>8. Type of Action:</th>
<th>9. Repeat Status No</th>
<th>10. Grading Basis</th>
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<td>semester/year</td>
<td>Fall/2015</td>
<td>99/9999</td>
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<tbody>
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<td>ME A651</td>
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<td></td>
<td>Added to satisfy demand for BSE ME Advanced Engineering Electives.</td>
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</table>

### Course Description (suggested length 20 to 50 words)

Introduce the fundamentals of aerodynamics, including boundary layer theories, aerodynamics of lifting flow over airfoils, wings of finite span, and airfoil theory in subsonic, transonic, and supersonic flows.

### Course Prerequisite(s) (list prefix and number)

(MATH A302, ES A341, and ME A313) with minimum grade of C.

### Test Score(s)

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

### Registration Restrictions

16d. Other Restriction(s)

(please specify)

### Mark if course is a selected topic course

17. Mark if course has fees Standard CoENG fee

### Mark if course has fees

18. Mark if course is a selected topic course

### General Education Requirement

Mark appropriate box:

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

### Mark if course has fees

19. Justification for Action

Added to satisfy demand for BSE ME Advanced Engineering Electives.

---

**Initiator Name (typed):** Jifeng Peng

**Initiator Signed Initials:** _________

**Date:** _________

**Initiator (faculty only) Date:** _________

**Initiator (TYPE NAME)**

---

**Approved**

**Disapproved**

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

**Approved**

**Disapproved**

**Undergraduate/Graduate Academic Date:** _________

**Approved**

**Disapproved**

**Board Chairperson**

**Approved**

**Disapproved**

**Provost or Designee Date:** _________

---

**Approved**

**Disapproved**

**Curriculum Committee Chairperson Date:** _________
1. Course Starting Date
   Fall 2015

2. Course Information
   A. College       College of Engineering (CoENG)
   B. Course Prefix ME
   C. Course Number A451
   D. Number of Credits and Contact Hours
      Number of Credits: 3
      Contact Hours: 3+0
   E. Course Title Aerodynamics
   F. Grading Basis A-F
   G. Implementation Date Fall 2015
   H. Course Description
      Introduce the fundamentals of aerodynamics, including boundary layer theories, aerodynamics of lifting flow over airfoils, wings of finite span, and airfoil theory in subsonic, transonic and supersonic flows.
   I. Course Prerequisites (MATH A302, ES A341, and ME A313) with minimum grade of C.
   J. Course Fee Standard CoENG fee
   K. Stacked Yes, with ME A651

3. Course Level Justification
   This course introduces topics in aerodynamics for upper-level undergraduate students. This course builds upon core 300 level engineering and mathematics courses.

4. Instructional Goals
   The instructor will
   1. Present the basic aerodynamics principles of lift on airfoils.
2. Present analytical methods for determining lift, including the Navier-Stokes Equations, boundary layer theory, Kutta-Joukowsky theorem, Biot-Savart Law.

3. Present airfoil theory and finite-wing theory.

4. Present aircraft wing design, flight performance, stability and control.

5. Present examples of transonic and supersonic flows, shock and expansion waves.

5. Student Learning Outcomes and Assessment Methods

Students will be evaluated using a variety of tools at the instructor’s discretion which may include but are not limited to those listed below.

<table>
<thead>
<tr>
<th>Student Learning Outcomes</th>
<th>Assessment Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Demonstrate the understanding of boundary layer theory.</td>
<td>Homework assignments, projects, quizzes, midterm exams, in-class presentations, and a final/comprehensive exam</td>
</tr>
<tr>
<td>2. Determine the coefficients of lift and drag on airfoils.</td>
<td>Homework assignments, projects, quizzes, midterm exams, in-class presentations, and a final/comprehensive exam</td>
</tr>
<tr>
<td>3. Find exact solutions to simple inviscid, incompressible flows given the governing equations and boundary conditions.</td>
<td>Homework assignments, projects, quizzes, midterm exams, in-class presentations, and a final/comprehensive exam</td>
</tr>
<tr>
<td>4. Model the flow fields around aerodynamic bodies.</td>
<td>Homework assignments, projects, quizzes, midterm exams, in-class presentations, and a final/comprehensive exam</td>
</tr>
<tr>
<td>5. Formulate and apply appropriate aerodynamic models to predict the forces on aircraft wings.</td>
<td>Homework assignments, projects, quizzes, midterm exams, in-class presentations, and a final/comprehensive exam</td>
</tr>
<tr>
<td>6. Perform simple aerodynamic analysis and design.</td>
<td>Homework assignments, projects, quizzes, midterm exams, in-class presentations, and a final/comprehensive exam</td>
</tr>
</tbody>
</table>

6. Topical Course Outline

This course will cover a variety of topics related to aerodynamics, which may include but are not limited to:

1. Basic Aerodynamics
   a. The Fundamental Principles Governing Aerodynamics
b. Navier-Stokes equations  
c. Boundary layer theory

2. Aerodynamics for Inviscid, Incompressible Flow  
a. Bernoulli’s equation  
b. Pitot-tube  
c. Kutta-Joukowsky theorem

3. Airfoils, Wings and other Aerodynamic Shapes  
a. Elements of Airplane Performance  
b. Lift and drag  
c. Classic thin airfoil theory

4. The Aerodynamic Analysis of Incompressible Flow Over Airfoils  
a. Vortex filament  
b. The Biot-Savart law  
c. Prandtl’s lifting-line theory  
d. The lifting surface theory

5. Aerodynamic Analysis of Flow Over Finite Wings  
a. Wing-tip vortex  
b. Induced drag

6. Principles of Stability and Control  
a. Aircraft stability  
b. Control

7. Introduction to Inviscid, Compressible Flow  
a. Thermodynamics  
b. Stagnation points  
c. Mach number

8. Introduction to Shock & Expansion Waves  
a. Speed of sound  
b. Normal shock wave properties  
c. Expansion wave properties

7. Suggested Text  
8. Bibliography

# 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>CB CBPP</td>
<td>ADBP Division of Business Programs</td>
<td>ACCT</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</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT</td>
<td>A422</td>
<td>A494A</td>
<td>3</td>
<td>(Lecture + Lab) (3+0)</td>
</tr>
</tbody>
</table>

**6. Complete Course Title**

Justice for Fraud Victims

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

| 7. Type of Course |  |  |  |
|-------------------|----------------|----------------|
| Academic          | Preparatory/Development | Non-credit |

<table>
<thead>
<tr>
<th>8. Type of Action:</th>
<th>Add or Change or Delete</th>
</tr>
</thead>
</table>

**If a change, mark appropriate boxes:**

- Prefix
- Credits
- Title
- Grading Basis
- Course Description
- Test Score Prerequisites
- Automatic Restrictions
- Other
- Course Number
- Contact Hours
- Repeat Status
- Cross-Listed/Stacked
- Course Prerequisites
- Registration Restrictions
- General Education Requirement

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

<table>
<thead>
<tr>
<th>10. Grading Basis</th>
<th>A-F</th>
<th>P/NP</th>
<th>NG</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>11. Implementation Date</th>
<th>From:</th>
<th>To:</th>
</tr>
</thead>
<tbody>
<tr>
<td>semester/year</td>
<td></td>
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</tr>
</tbody>
</table>

**12. Cross Listed with**

**Cross-Listed Coordination Signature**

<table>
<thead>
<tr>
<th>13a. Impacted Courses or Programs:</th>
</tr>
</thead>
<tbody>
<tr>
<td>List any programs or college requirements that require this course.</td>
</tr>
</tbody>
</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).

<table>
<thead>
<tr>
<th>Impacted Program/Course</th>
<th>Date of Coordination</th>
<th>Chair/Coordinator Contacted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Business Administration, Accounting</td>
<td>09/05/2014</td>
<td>C. Patrick Fort</td>
</tr>
<tr>
<td>Minor, Accounting</td>
<td>09/05/2014</td>
<td>C. Patrick Fort</td>
</tr>
</tbody>
</table>

**Initiator Name (typed):** Soren Orley  
**Initiator Signed Initials:** ________  
**Date:** ____________

**13b. Coordination Email**

<table>
<thead>
<tr>
<th>Date:</th>
<th>submitted to Faculty Listserv:</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/01/2014</td>
<td>(<a href="mailto:uaa-faculty@lists.uaa.alaska.edu">uaa-faculty@lists.uaa.alaska.edu</a>)</td>
</tr>
</tbody>
</table>

**13c. Coordination with Library Liaison**

| Date: | |
|-------| |
| 10/01/2014 | |

**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)**

Utilizes forensic accounting techniques to investigate actual fraud cases that are brought to the class by various law enforcement agencies. Teams of students will work on each case to determine whether fraud has occurred, and if it has occurred, is it prosecutable?

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

(ACCT A302 and ACCT A316) with a minimum grade of C.

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

N/A

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

- College
- Major
- Class
- Level

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

Permission of Instructor. College of Business and Public Policy majors must be admitted to upper-division standing.

**17. Mark if course has fees** Standard CBPP computer lab fee

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

**19. Justification for Action**

Making an experimental course a permanent course based upon demand.
<table>
<thead>
<tr>
<th>Role</th>
<th>Approval</th>
<th>Disapproval</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initiator (faculty only)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Soren Orley</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Initiator (TYPE NAME)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dean/Director of School/College</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Department Chair</td>
<td></td>
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</tr>
<tr>
<td>Undergraduate/Graduate Academic Board Chair</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Provost or Designee</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>College/School Curriculum Committee Chair</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
I. Date Initiated
   October 21, 2014

II. Course Information
   College/School: College of Business and Public Policy
   Department: Accounting
   Program: Bachelor of Business Administration, Accounting; Minor, Accounting
   Course Title: Justice for Fraud Victims
   Course Number: ACCT A422
   Credits: 3
   Contact Hours: 3 per week x 15 weeks = 45 hours
                  0 lab hours x 15 weeks = 0 lab hours
                  6 hours outside of class per week x 15 weeks = 90 hours
   Grading Basis: A-F
   Course Description: Utilizes forensic accounting techniques to investigate actual fraud cases that are brought to the class by various law enforcement agencies. Teams of students will work on each case to determine whether fraud has occurred, and if it has occurred, is it prosecutable?
   Course Prerequisites: (ACCT A302 and ACCT A316) with a minimum grade of C
   Registration Restrictions: Permission of Instructor. College of Business and Public Policy majors must be admitted to upper-division standing.
   Fees: Standard CBPP computer lab fee.

III. Course Activities
   A. Lectures
   B. Class discussions
   C. In-class forensic examinations
   D. Comprehensive forensic examination

IV. Course Level Justification
   Students are expected to have successfully completed 300-level accounting courses prior to taking this course.
V. Outline

A. Mentor Meetings and Case Summary
B. Victim Interviews
C. Forensic Examination
D. Prepare Workpapers
E. Report Writing and Final Deliverables
   1. Forensic examination
   2. Internal control report
F. Presentation of Findings
   1. To law enforcement
   2. To the victim

VI. Suggested Text


VII. Bibliography


### VIII. Instructional Goals and Student Learning Outcomes

#### A. Instructional Goals.

The instructor will:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Demonstrate appropriate documentation for investigative reports</td>
</tr>
<tr>
<td>2.</td>
<td>Instruct students in developing presentation skills</td>
</tr>
<tr>
<td>3.</td>
<td>Demonstrate proper interview techniques</td>
</tr>
<tr>
<td>4.</td>
<td>Instruct students in proper fraud professional report writing</td>
</tr>
<tr>
<td>5.</td>
<td>Explain various methods to analyze accounting records for fraud</td>
</tr>
<tr>
<td>6.</td>
<td>Describe chain of custody procedures</td>
</tr>
</tbody>
</table>

#### B. Student Learning Outcomes.

**Students will be able to:**

<table>
<thead>
<tr>
<th></th>
<th>Assessment Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Demonstrate appropriate documentation techniques</td>
</tr>
<tr>
<td></td>
<td>Homework and logbooks</td>
</tr>
<tr>
<td>2.</td>
<td>Design and deliver a professional presentation</td>
</tr>
<tr>
<td></td>
<td>Team presentations</td>
</tr>
<tr>
<td>3.</td>
<td>Conduct interviews and report results</td>
</tr>
<tr>
<td></td>
<td>Formal forensic accounting reports and team presentations</td>
</tr>
<tr>
<td>4.</td>
<td>Write a professional/technical report</td>
</tr>
<tr>
<td></td>
<td>Formal forensic accounting reports</td>
</tr>
<tr>
<td>5.</td>
<td>Analyze accounting records for fraud</td>
</tr>
<tr>
<td></td>
<td>Formal forensic accounting reports</td>
</tr>
<tr>
<td>6.</td>
<td>Create report that discusses chain of custody procedures used for fraud investigations</td>
</tr>
<tr>
<td></td>
<td>Formal forensic accounting reports</td>
</tr>
</tbody>
</table>
## 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>CB CBPP</th>
<th>1b. Division</th>
<th>ADBP Division of Business Programs</th>
<th>1c. Department</th>
<th>CIS</th>
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<tbody>
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<td>4. Previous Course Prefix &amp; Number</td>
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<td>3. Course Number</td>
<td>A345</td>
<td>5b. Contact Hours</td>
<td>(Lecture + Lab) (3+0)</td>
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</table>

### 6. Complete Course Title

**Managing Data Communications and Computer Networks**

*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
- Title
- Grading Basis
- Course Description
- Test Score Prerequisites
- Automatic Restrictions
- Other Update CCG (please specify)

### 9. Repeat Status No

<table>
<thead>
<tr>
<th># of Repeats</th>
<th>Max Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A-F</td>
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<tr>
<td></td>
<td>P/NP</td>
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<td>NG</td>
</tr>
</tbody>
</table>

### 10. Grading Basis

- A-F
- P/NP
- NG

### 11. Implementation Date

- From: Fall/2015
- 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).

**Impacted Program/Course**

<table>
<thead>
<tr>
<th>Date of Coordination</th>
<th>Chair/Coordinator Contacted</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/17/2014</td>
<td>Minnie Yen</td>
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</tr>
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<td>1/17/2014</td>
<td>Minnie Yen</td>
</tr>
</tbody>
</table>

**Initiator Name (typed): Yoshito Kanamori**

**Initiator Signed Initials:** _________

**Date:** __________

### 13b. Coordination Email

Date: 02/07/2014

submitted to Faculty Listserv: [uae-faculty@lists.uaa.alaska.edu](mailto:uae-faculty@lists.uaa.alaska.edu)

### 13c. Coordination with Library Liaison

Date: 02/07/2014

### 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)

Introduces the rapidly changing environment of data communications over local area networks and over switched and private voice lines. Focuses on the control and management of data in a distributed environment, the technology issues associated with data communications, and current trends in the industry.

### 16a. Course Prerequisite(s)

(list prefix and number or test code and score)

CIS A110 with a minimum grade of C

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

N/A

### 16c. Automatic Restriction(s)

- College
- Major
- Class
- Level

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

College of Business and Public Policy majors must be admitted to upper-division standing.

### 17. Mark if course has fees

Standard CBPP computer lab fee

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

### 19. Justification for Action

Change of prerequisite. Update of outline, textbooks, and bibliography.

**Initiator (faculty only)**

**Yoshito Kanamori**

Initiator (TYPE NAME)

<table>
<thead>
<tr>
<th>Date</th>
<th>Disapproved</th>
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<td>Provost or Designee</td>
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20
I. Date Initiated
   January 17, 2014

II. Course Information
   College/School: College of Business and Public Policy
   Department: Computer Information Systems
   Program: Bachelor of Business Administration, Management
   Information Systems; Associate of Applied Science,
   Business Computer Information Systems
   Course Title: Managing Data Communications and Computer Networks
   Course Number: CIS A345
   Credits: 3
   Contact Hours: 3 per week x 15 weeks = 45 hours
   0 lab hours
   Approximately 6 to 10 hours outside of class per week x 15
   weeks = 90 to 150 hours
   Grading Basis: A-F
   Course Description: Introduces the rapidly changing environment of data
   communications over local area networks and over switched and private voice
   lines. Focuses on the control and management of data in a distributed
   environment, the technology issues associated with data communications, and
   current trends in the industry.
   Course Prerequisites: CIS A110 with a minimum grade of C
   Registration Restrictions: College of Business & Public Policy majors must be
   admitted to upper-division standing.
   Fees: Standard CBPP computer lab fee

III. Course Activities
   A. Lectures
   B. Lab assignments
   C. Project assignments

IV. Course Level Justification
   Students are expected to be familiar with computer concepts, including operating
   systems and computer hardware/software basics, and are expected to integrate this
   knowledge to understand how the computers exchange data.
V. Outline

A. Historical Perspective on Communications, Information Systems and Data Networks
B. TCP/IP Layer Model – Five Layers
C. Support Services for Local Area Networks
   1. DHCP
   2. NAT/NAPT
   3. ARP
   4. DNS
D. Subnetting
E. Routing
F. Wide Area Networks
G. Wireless Networks
H. Phone Networks
I. Network Security
J. Management Issues

VI. Instructional Goals and Student Learning Outcomes

A. Instructional Goals.
   The instructor will:

1. Present technical requirements and justification of telecommunications networks based upon their business requirements. Present an analysis of the business implications of each technical concept.
2. Describe communications protocols focusing on the roles of standards and layered models.
3. Explain the differences between analog and digital formats including signal modulation formats and flow control.
4. Describe the architecture and the protocols supporting data networks of local through wide area types for both wired and wireless technologies.
5. Present the need and the methods for securing access to networks.
6. Discuss purposes and implications of network design and management.
7. Engage students in understanding the business and technical implications of emerging topics.
### B. Student Learning Outcomes.

**Students will be able to:**

<table>
<thead>
<tr>
<th>Assessment Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exams</td>
</tr>
<tr>
<td>Quizzes</td>
</tr>
<tr>
<td>Lab assignments</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1. Evaluate technical requirements of telecommunications networks and be able to justify them based upon business requirements.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lab assignments</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2. Identify the need for communications protocols and identify standards and network layers where the protocols operate.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exams</td>
</tr>
<tr>
<td>Quizzes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3. Explain why and where analog and digital formats are used in existing communications systems.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exams</td>
</tr>
<tr>
<td>Quizzes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4. Describe the architecture and the protocols supporting data networks of local through wide area types, including both wired and wireless technologies. Be able to install, configure, and debug a small local area network.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exams</td>
</tr>
<tr>
<td>Quizzes</td>
</tr>
<tr>
<td>Lab assignments</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5. Identify the security needs of an organization and suggest the means for securing access to networks.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exams</td>
</tr>
<tr>
<td>Quizzes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6. Design a small local area network and be able to justify the architectural and technology choices.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exams</td>
</tr>
<tr>
<td>Quizzes</td>
</tr>
</tbody>
</table>

### VII. Suggested Text


### VIII. Bibliography


## Course Action Request

**University of Alaska Anchorage**

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

### 1. School or College
CW CBPP

### 2. Course Prefix
CIS

### 3. Course Number
A365

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

### 5. Credits/CEUs
3

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

### 6. Complete Course Title
Object-Oriented Programming

### 7. Type of Course
☑ Academic

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

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

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

### 11. Implementation Date
From: Fall/2015 To: /9999

### 12. Cross Listed with Stacked with

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

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<th>Chair/Coordinator Contacted</th>
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<tbody>
<tr>
<td>1. Management Information Systems, BBA</td>
<td>01/17/2014</td>
<td>Minnie Yen</td>
</tr>
<tr>
<td>2. Management Information Systems, Minor</td>
<td>01/17/2014</td>
<td>Minnie Yen</td>
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<tr>
<td>3. CIS A489</td>
<td>01/17/2014</td>
<td>Minnie Yen</td>
</tr>
</tbody>
</table>

Initiator Name (typed): Yoshito Kanamori Initiator Signed Initials: _________ Date: __________

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

Date: 02/07/2014

### 13c. Coordination with Library Liaison
Date: 02/07/2014

### 14. General Education Requirement

<table>
<thead>
<tr>
<th>Mark appropriate box:</th>
<th>Oral Communication</th>
<th>Written Communication</th>
<th>Quantitative Skills</th>
<th>Humanities</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Natural Sciences</td>
</tr>
</tbody>
</table>

### 15. Course Description (suggested length 20 to 50 words)
Covers basic concepts of Object-Oriented (OO) programming languages. Some of the recent relevant developments and applications will be discussed. The OO programming languages such as C++ or Java will be used as a vehicle for illustrating the concepts discussed in the course. OO programming design and programming development patterns will be covered. Students will analyze and solve business problems and practice writing programs for business applications using a chosen programming language.

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

| CIS A361 with a minimum grade of C |

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

### 16c. Automatic Restriction(s)

| College | Major | Class | Level |

### 16d. Registration Restriction(s) (non-codable)
College of Business and Public Policy majors must be admitted to upper-division standing.

### 17. Mark if course has fees

| Standard CBPP computer lab fee |

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

### 19. Justification for Action

Changed prerequisite and update textbooks and bibliography.
<table>
<thead>
<tr>
<th>Initiator (faculty only)</th>
<th>Date</th>
<th>Approved</th>
<th>Disapproved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yoshito Kanamori</td>
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<table>
<thead>
<tr>
<th>Initiator (TYPE NAME)</th>
<th>Date</th>
<th>Approved</th>
<th>Disapproved</th>
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<thead>
<tr>
<th>Dean/Director of School/College</th>
<th>Date</th>
<th>Approved</th>
<th>Disapproved</th>
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<table>
<thead>
<tr>
<th>Department Chair</th>
<th>Date</th>
<th>Approved</th>
<th>Disapproved</th>
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<table>
<thead>
<tr>
<th>College/School Curriculum Committee Chair</th>
<th>Date</th>
<th>Approved</th>
<th>Disapproved</th>
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<table>
<thead>
<tr>
<th>Undergraduate/Graduate Academic Board Chair</th>
<th>Date</th>
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<th>Disapproved</th>
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<tr>
<th>Provost or Designee</th>
<th>Date</th>
<th>Approved</th>
<th>Disapproved</th>
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</table>
COUSE CONTENT GUIDE
UNIVERSITY OF ALASKA ANCHORAGE
COLLEGE OF BUSINESS AND PUBLIC POLICY

I. Date Initiated
January 17, 2014

II. Course Information
College/School: College of Business and Public Policy
Department: Computer Information Systems
Program: Bachelor of Business Administration, Management Information Systems; Minor, Computer Information Systems
Course Title: Object-Oriented Programming
Course Number: CIS A365
Credits: 3
Contact Hours: 3 per week x 15 weeks = 45 hours
0 lab hours
6 hours outside of class per week x 15 weeks = 90 hours
Grading Basis: A-F

Course Description:
Covers basic concepts of Object-Oriented (OO) programming languages. Some of the recent relevant developments and applications will be discussed. The OO programming languages such as C++ or Java will be used as a vehicle for illustrating the concepts discussed in the course. OO programming design and programming development patterns will be covered. Students will analyze and solve business problems and practice writing programs for business applications using a chosen OO programming language.

Course Prerequisites: CIS A361 with a minimum grade of C
Registration Restrictions: College of Business and Public Policy majors must be admitted to upper-division standing.
Fees: Standard CBPP computer lab fee

III. Course Activities
A. Lectures
B. Discussions
C. Programming analysis exercises

IV. Course Level Justification
Course requires CIS A361 as a prerequisite. CIS A365 is a MIS major elective course that provides more depth than basic programming principles.
V. Outline
A. The Object-Oriented Paradigm
   1. Introduction
   2. Processing Modeling and the Unified Modeling Language (UML)
   3. OO program design patterns
B. Designing Object-Oriented Applications to Solve Organizational Problems
C. Developing Object-Oriented Applications in OO Programming Language
   1. Designing classes
   2. Using I/O streams
   3. Structured elements
   4. Arrays
   5. Strings
   6. Overloading
   7. Inheritance and polymorphism
D. Exploring Development Environment Available for OO Programming Languages
E. Object-Oriented Program Development in a Client/Server Environment with Database Connectivity

VI. Instructional Goals and Student Learning Outcomes

A. Instructional Goals.
The instructor will:

1. Explain the concepts of analysis, design and implementation for OO programs.
2. Provide additional in-depth information on new developments in the field of OO programming.
3. Provide an introduction to OO programming techniques and their development environment.
4. Demonstrate OO program development with database connectivity in a client/server environment.
5. Explain basic design patterns in OO programming by using the chosen OO programming language.
6. Guide students in individual projects and team projects that require the application of advanced business analysis tools to develop and test computer application programs to solve business problems.
### B. Student Learning Outcomes.

**Students will be able to:**

<table>
<thead>
<tr>
<th></th>
<th>Assessment Method</th>
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</thead>
<tbody>
<tr>
<td>1.</td>
<td>Articulate basic issues involved in object-oriented systems.</td>
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<td>2.</td>
<td>Develop an object-oriented model for a business system of medium complexity.</td>
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<td>3.</td>
<td>Build working object-oriented programs in an OO programming language.</td>
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<td>4.</td>
<td>Develop OO programs connected with database in a client/server environment.</td>
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<td>5.</td>
<td>Demonstrate understanding of basic design patterns used in OO programming.</td>
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</table>

### VII. Suggested Text


### VIII. Bibliography


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>CB CBPP</th>
<th>1b. Division</th>
<th>ADBP Division of Business Programs</th>
<th>1c. Department</th>
<th>CIS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Course Prefix</td>
<td>CIS</td>
<td>3. Course Number</td>
<td>A390</td>
<td>4. Previous Course Prefix &amp; Number</td>
<td>N/A</td>
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<tr>
<td>5a. Credits/CEUs</td>
<td>1-6</td>
<td>5b. Contact Hours</td>
<td>(Lecture + Lab)</td>
<td>1-6+0</td>
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<td>6. Complete Course Title</td>
<td>Selected Topics in Management Information Systems</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td>7. Type of Course</td>
<td>☑ Academic</td>
<td>☐ Preparatory/Development</td>
<td>☐ Non-credit</td>
<td>☐ CEU</td>
<td>☐ Professional Development</td>
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<td>8. Type of Action</td>
<td>☐ Add</td>
<td>☑ Change</td>
<td>☐ Delete</td>
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<td>9. Repeat Status</td>
<td>Yes</td>
<td># of Repeats</td>
<td>Max Credits</td>
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<td>10. Grading Basis</td>
<td>☑ A-F</td>
<td>☐ P/NP</td>
<td>☐ NG</td>
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<td>11. Implementation Date</td>
<td>From: Fall/2015</td>
<td>To: /9999</td>
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<tr>
<td>12. ☐ Cross Listed with</td>
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<tr>
<td>13a. Impacted Courses or Programs: List any programs or college requirements that require this course.</td>
<td></td>
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<tr>
<td>14. General Education Requirement</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>15. Course Description (suggested length 20 to 50 words)</td>
<td>Study of specific current issues, techniques, and trends in Management Information Systems (MIS)</td>
<td>Special note: May be repeated with change of subtitle/topic. Maximum of 9 elective credits may be used for the BBA MIS degree. Prerequisites vary with topic. Check course schedule for specific titles being offered.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>16a. Course Prerequisite(s) (list prefix and number or test code and score)</td>
<td>N/A</td>
<td>16b. Co-requisite(s) (concurrent enrollment required)</td>
<td>N/A</td>
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<tr>
<td>16c. Automatic Restriction(s)</td>
<td>☐ College</td>
<td>☐ Major</td>
<td>☐ Class</td>
<td>☐ Level</td>
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<tr>
<td>16d. Registration Restriction(s) (non-codable)</td>
<td>College of Business and Public Policy majors must be admitted to upper-division standing.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17. ☐ Mark if course has fees</td>
<td>Standard CBPP computer lab fee</td>
<td>18. ☑ Mark if course is a selected topic course</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Initiator Name (typed): Yoshito Kanamori  
Initiator Signed Initials: _________  
Date: __________

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

13c. Coordination with Library Liaison Date: _________

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

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

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

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

16d. Registration Restriction(s) (non-codable)  
College of Business and Public Policy majors must be admitted to upper-division standing.

17. ☐ Mark if course has fees | Standard CBPP computer lab fee

18. ☑ Mark if course is a selected topic course

19. Justification for Action  
Changed prerequisite. Updated textbooks and bibliography.

Initiator (faculty only)  
Yoshito Kanamori  
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  
Date
I. Date Initiated
January 17, 2014

II. Course Information
College/School: College of Business and Public Policy
Department: Computer Information Systems
Program: Bachelor of Business Administration in Management Information Systems
Course Title: Selected Topics in Management Information Systems
Course Number: CIS A390
Credits: 1-6
Contact Hours: 1 hour per week x 15 weeks = 15 hours for each lecture hour
0 lab hours
4 hours outside of class per week x 15 for each lecture hour
Grading Basis: A-F
Course Description:
Study of specific current issues, techniques, and trends in Management Information Systems (MIS)
Special note: May be repeated with change of subtitle/topic. Maximum of 9 elective credits may be used for the BBA MIS degree. Prerequisites vary with topic. Check course schedule for specific titles being offered.
Course Prerequisites: N/A
Registration Restrictions: College of Business and Public Policy majors must be admitted to upper-division standing.
Fees: Standard CBPP computer lab fee

III. Course Activities
A. Lectures
B. Discussions
C. Guest speakers
D. In-class exercises
E. Analysis of case studies
F. Simulations

IV. Course Level Justification
The course requires prerequisites that may vary with topic and the student is expected to have appropriate background in problem solving techniques related to business environment.
V. Course Outline
Course outline varies with topics.

Example from previously taught course (Information Security Assurance)
A. Introduction to Information Security
B. The Need for Security
C. Legal, Ethical, and Professional Issues in Information Security
D. Security Analysis
E. Planning for Continuity
F. Security Technology
G. Physical Security
H. Implementing Security
I. Information Security Maintenance

VI. Suggested Texts
Vary according to topic.

Example from previously taught course (Information Security Assurance)

VII. Bibliography
Vary according to topic.

Example from previously taught course (Information Security Assurance)

VIII. Instructional Goals and Student Learning Outcomes
Vary according to topic.

Example from previously taught course (Information Security Assurance)

<table>
<thead>
<tr>
<th>A. Instructional Goals. The instructor will:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Demonstrate the integration of security, software, people, data, and telecommunications components in Information Systems (IS).</td>
</tr>
<tr>
<td>2. Engage students in classroom debates on the implications of emerging global threats to IS data.</td>
</tr>
<tr>
<td>3. Empower students to be able to perform customer investigation of security faults and protection of IS resources.</td>
</tr>
</tbody>
</table>
4. Guide students in developing analysis and database tools to support quantitative decision making related to security risk assessment and use of forensic tools to solve security problems.

5. Challenge students in identifying societal and business implications of information systems security risks and protection policies.

### B. Student Learning Outcomes.

<table>
<thead>
<tr>
<th>Students will be able to:</th>
<th>Assessment Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Apply the ethical legislative and regulatory issues of information security, as well as the role of public policy in shaping a global digital economy.</td>
<td>Homework, Quizzes, Exams</td>
</tr>
<tr>
<td>2. Investigate the role of computer forensics.</td>
<td>Homework, Exams</td>
</tr>
<tr>
<td>3. Create suitable information assurance policies for a variety of systems.</td>
<td>Homework</td>
</tr>
<tr>
<td>4. Explain the basic theories, principles and concepts of computer security.</td>
<td>Homework, Quizzes, Exams</td>
</tr>
<tr>
<td>5. Analyze Information Security practices across a variety of business environments.</td>
<td>Homework, Quizzes</td>
</tr>
<tr>
<td>6. Describe the issues and tasks surrounding the implementation and operation of an Information Assurance program.</td>
<td>Homework, Quizzes</td>
</tr>
<tr>
<td>7. Define various information security processes and discuss their tangible and intangible benefits.</td>
<td>Homework, Quizzes, Exams</td>
</tr>
<tr>
<td>8. Describe the various security technologies including: firewalls, dial-up protection, access control.</td>
<td>Homework, Quizzes, Exams</td>
</tr>
<tr>
<td>9. Describe the various concepts of cryptography including types of ciphers, cryptographic algorithms.</td>
<td>In-class activities, Quizzes, Exams</td>
</tr>
<tr>
<td>10. Describe and design physical security measures.</td>
<td>Homework, Exams</td>
</tr>
<tr>
<td>11. Develop an Information Assurance plan.</td>
<td>Project</td>
</tr>
</tbody>
</table>
Data: September 4, 2014

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

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

Re: General University Requirement related to catalog year

Students may elect to graduate under the requirements of the catalog in effect at time of formal acceptance to a certificate or degree program or the catalog in effect at the time of graduation. (General University Requirement)

Issue:
In concurrence with best practice, the faculty at UAA engage in ongoing program improvements, including actively updating their curriculum in response to changes in their disciplines, results of their assessment processes, revised accreditation guidelines, and other factors. This is to be commended; however it calls into question the efficacy of the current policy related to a student's catalog year, quoted above.

Because students may choose only between the requirements at the time of declaring their major, i.e. the oldest set possible for them to choose or the requirements active at the time of graduation, i.e. the newest set, there are a whole set of issues that come about. Students who wish to utilize degree requirements that become effective after the student has been admitted find themselves unable to pick a catalog year or set of degree requirements that may fall somewhere in the middle of their time at UAA. Because students are given a new catalog year whenever they are formally admitted to a major, the current workaround for students is to “change their major” to something else (i.e. undeclared) and then change back to their original major- thereby putting themselves in the current catalog year. The other option is that the department and advisors submit numerous petitions to substitute current courses for previous degree requirements. This process is frustrating to students, staff, and faculty at minimum and creates an enormous amount of academic petitions and change of major forms.

Proposal
With the addition of DegreeWorks it is not difficult to perform audits and to advise students for any active catalog. Additionally DegreeWorks can be altered to reflect the student’s chosen catalog year so that an accurate audit is reflected without the need to use “what if”. Our proposal is to allow students to pick any catalog year within their five or seven year window for completion.

Proposed Catalog Change
Students may elect to graduate under the degree/certificate requirements of any catalog which was active during their completion period (5 years certificate/associate; 7 years baccalaureate/graduate). (General University Requirement)
MEMO:
TO: Lora Volden, UAA Registrar
FROM: Karl Pfeiffer, CAS Course and Curriculum Committee Chair
RE: JPC contact hour catalogue edits for

JPC A201, JPC A203, JPC A204, JPC A211, JPC A212, JPC A213, JPC A342, JPC A343, JPC A343, JPC A344, JPC A345, JPC A368, JPC A369, JPC A384, JPC A385, JPC A442, JPC A445, JPC A483,

DATE: October 8, 2014
CC: Patricia Linton, Francisco Miranda, Joy Mapaye

The CAS Course and Curriculum Committee met this afternoon to review the above noted courses for the purpose of correcting inconsistencies regarding contact hours. A recent audit of the proposed Spring 2015 course schedule, provided to the College of Arts & Sciences by the Registrar’s office and Academic Affairs, identified a number of JPC courses in which the scheduled contact hours do not match the approved contact hours in the CCGs on file in the Curriculum Office. It appears that for a number of years these courses have been taught in a manner that does not conform to the CCG (i.e. increased lecture and decreased lab time). Faculty in the Department of Journalism & Communication have reviewed all of their curriculum to determine which courses require an update of the CCGs to reflect the way courses are currently taught or alternatively alteration of the Spring 2015 schedule to reflect the correct contact time.

The Journalism & Public Communication degree is an externally accredited program. Changes in the way courses are delivered conform to the expectations of disciplinary accreditation.

JPC is currently conducting a full review of their course content which they expect to bring to UAB during this academic year; however, the contact hour problem is more urgent, since the Spring 2015 schedule must be corrected. The CAS Course & Curriculum Committee approved the contact hour changes as proposed, and only those changes, without additional review and revision of course content. The department and the committee request that UAB accept the contact hour corrections, with the provision that the curriculum will be brought forward for full review during this year, in order to expedite the more urgent corrections to the schedule.
Faculty Alliance

Motion 2014-01
Statewide Minimum Admissions Standards for Baccalaureate Programs

MOTION: Faculty Alliance approves the following motion and minimum standards for admission into baccalaureate degree programs for consideration by each university in the University of Alaska system. Faculty Senate presidents shall present it to their faculty senates for consideration and approval at the next regularly scheduled senate meeting.

Rationale: Faculty Alliance recognizes these are minimum standards and that individual programs and institutions may set baccalaureate admission standards higher than the minimums. Further, the establishment of minimum admissions standards should not prevent individual programs and institutions from establishing policies that allow for individual exceptions or admission on probationary basis.

Registrars at each university in the University of Alaska System will need to redirect students who do not meet the minimum standard for baccalaureate programs to pre-baccalaureate options and support programs, or appeals processes, where they exist. Each university will also need to assess and advise these students and provide academic support to help them identify and attain their educational goals. Each university will use best practices and the characteristics of their student body to tailor programs to needs of students who enroll but do not meet the minimum standards for admission into baccalaureate degree programs.

PROPOSED MOTION FOR APPROVAL BY THE FACULTY SENATES:

The _____ Faculty Senate approves the proposed UA common minimum baccalaureate admission standards for first-time, first-year students and transfer students with fewer than 30 college-level credits. This motion does not alter the admissions process for international students, homeschool students who did not complete a state-recognized program, or students who transfer 30 or more college-level credits from other institutions.

Option 1: have a high school diploma, pass either the 16-credit math & science or social studies & language high school core curriculum required for the Alaska Performance Scholarship with a GPA of at least 2.5, and have a cumulative GPA of 3.0. No minimum ACT or SAT score is required, OR

Option 2: have a high school diploma, have a cumulative high school GPA of 2.0, and submit results of the ACT with a minimum score of 18 or SAT with a minimum score of 1290 or approved scores necessary for placement into GER-level English and mathematics courses on approved placement test(s), OR
Option 3: have a high school diploma or GED and submit ACT, SAT, or approved placement test scores necessary for placement into GER-level ENGL and MATH or successfully complete college coursework necessary for placement into GER-level English and mathematics courses.

These standards, procedures, and support programs shall be implemented by fall 2016.

Voted (via e-mail) on October 20, 2014

Voting members’ results as attested by LaNora Tolman, Executive Officer, System Governance:

Yes: 8
No: 0
Abstain: 0
Absent: 1

David Valentine, Chair

October 20, 2014

For action by the President of the University of Alaska

Approved: _______________________________ Date:_____________________

Modified: _______________________________ Date:_____________________

Disapproved: _____________________________ Date:_____________________

Comments: