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. 2-4)

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 ANTH A464 Culture and Globalization (GER)(stacked with ANTH A664)
(3 cr)(3+0)(pg. 5-13)

VII. Program/Course Action Request- First Readings

VIII. Old Business

IX. New Business
A. UAB Goals for 2014-2015 Academic Year (pg. 20)
B. Motion: After reviewing the workflow for GER courses, the eCurriculum Workflow subcommittee proposes that all GER courses be reviewed by the General Education Committee (GERC) first, before being reviewed by the Undergraduate Academic Board (UAB). This changes the current process of having the courses be reviewed by UAB before and after going to the GERC.
Justification: This shift will allow for a more efficient workflow process in the eCurriculum software (CIM) and avoid unnecessary delays in approval.
C. GELO Outcomes motion reconsidered as catalog copy change (pg. 21)
D. General Course Requirements for AA and AAS written communication Skills English A111 (pg. 22)

X. Informational Items and Adjournment
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 (CAS) 
(x) Carrie King (CTC) 
( ) Vacant (CAS) 
 (x) Kevin Keating (LIB) 
 (x) Rick Adams (KPC) 
 (x) Sheri Denison (Mat-su) 
 (x) Jared Griffin (Kod) 
 (e) Christina Stuive (ADV)

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

II. Approval of the Agenda (pg. 1-3)
Approved

III. Approval of Meeting Summary (pg. 4-8)
Approved

IV. Administrative Report
A. Vice Provost for Undergraduate Academic Affairs Susan Kalina
Written report posted online

B. University Registrar Lora Volden
No report

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

B. GERC
Approved JUST A432 and ANTH A454
Did not approve ANTH A464, this course will come back for a second reading

VI. New Business
A. Catalog Copy for Repeatable, Variable-Credit Courses (pg. 8)
Motion to approve the memo
Unanimously Approved

B. Motion: After reviewing the workflow for GER courses, the eCurriculum Workflow subcommittee proposes that all GER courses be reviewed by the General Education Committee (GERC) first, before being reviewed by the Undergraduate Academic Board (UAB). This changes the current process of having the courses be reviewed by UAB before and after going to the GERC.

Justification: This shift will allow for a more efficient workflow process in the eCurriculum software (CIM) and avoid unnecessary delays in approval.

Motion will be postponed until GERC can review and approve it
VII. Program/Course Action Request- Second Readings
Add  JUST A432  Crime Analysis and Mapping (GER)(3 cr)(3+0)(pg. 9-14)
Unanimously Approved

Add  AAS, Veterinary Technology (pg. 15-22)
Unanimously Approved

Chg  ANTH A415  Applied Anthropology (Stacked with ANTH A615)
(3 cr)(3+0)(pg. 23-32)
Unanimously Approved

Chg  ANTH A454  Culture and Ecology (GER)(Stacked with ANTH A654)
(3 cr)(3+0)(pg. 33-49)
Unanimously Approved

Add  ANTH A464  Culture and Globalization (GER)(stacked with ANTH A664)
(3 cr)(3+0)(pg. 50-63)
GERC did not approve this course and it will return for a second reading

VIII. Program/Course Action Request- First Readings
Del  ANTH A338  Peoples and Cultures of Scandinavia (3 cr)(3+0)(pg. 64)
Waive first reading, approve for second

Accepted for first reading

Add  BIOL A108  Principles and Methods in Biology (GER)(6 cr)(3+9)(pg. 69-73)
Waive first reading, approve for second as GERC already approved in Spring 2014

Add  BIOL A442  Experiential Learning: Animal Behavior (3 cr)(1+4)(pg. 74-77)
Chg  BIOL A451  Microbial Biotechnology (3 cr)(3+0)(pg. 78-81)
Add  BIOL A453  Experiential Learning: Microbial Ecology (4 cr)(2+4)(pg. 82-86)
Add  BIOL A454  Experiential Learning: Microbial Biotechnology (4 cr)(2+4)(pg. 87-91)
Add  BIOL A455  Experiential Learning: Bioinformatics (4 cr)(2+4)(pg. 92-97)
Chg  BIOL A462  Virology (stacked with BIOL A662 (3 cr)(3+0)(pg. 98-109)
Add  BIOL A463  Molecular Biology of Cancer (3 cr)(3+0)(pg. 110-113)
Add  BIOL A464  Metals in Biology (3 cr)(3+0)(pg. 114-118)
Chg  BIOL A465  Experiential Learning: Molecular Biology (stacked with BIOL A665)
(4 cr)(2+4)(pg. 119-128)
Chg  BIOL A471  Immunology (Crosslisted with CHEM A471)(3 cr)(3+0)(pg. 129-134)
Chg  CHEM A471  Immunology (Crosslisted with BIOL A471)(3 cr)(3+0)(pg. 135-140)
Chg  BIOL A472  Biogeography (3 cr)(3+0)(pg. 141-144)
BIOL A442 to BIOL A472 - Waive first reading, approve for second

Chg  BIOL A473  Conservation Biology (GER)(3 cr)(3+0)(pg. 145-149)
Accepted for first reading

Add  BIOL A474  Ecotoxicology (3 cr)(3+0)(pg. 150-153)
Waive first, approve for second

Add  BIOL A475  Fish Ecology (3 cr)(3+0)(pg. 154-157)
Waive first, approve for second – number changed to A466 as A475 was not available

Add  BIOL A476  Wildlife Population Dynamics and Management (3 cr)(3+0)(pg. 158-162)
Waive first, approve for second - number changed to A467 as A476 was not available
Chg  BIOL A478  Biological Oceanography (stacked with BIOL A678)(3 cr)(3+0)(pg. 163-168)
Waive first, approve for second

Add  BIOL A480  Ecological and Conservation Genetics (3 cr)(3+0)(pg. 169-173)
Waive first, approve for second

Chg  BIOL A481  Marine Biology (GER)(3 cr)(3+0)(pg. 174-178)
Accepted for first reading

The following courses and programs are postponed until October 10th
Add  BIOL A482  Spatial Ecology (3 cr)(3+0)(pg. 179-183)
Add  BIOL A483  Exploration Ecology (2 cr)(2+0)(pg. 184-188)
Add  BIOL A484  Experiential Learning: Exploration Ecology Field Study
                (4 cr)(0+8)(pg. 189-193)
Add  BIOL A486  Evolutionary Ecology (3 cr)(3+0)(pg. 194-198)
Chg  BIOL A487  Comparative Anatomy of Vertebrates (3 cr)(3+0)(pg. 199-201)
Chg  BIOL A489  Population Genetics and Evolutionary Processes (GER)(3 cr)(3+0)(pg. 206-210)
Chg  BIOL A495  Instructional Practicum: Laboratory (1 cr)(0+3)(pg. 211-213)
Chg  Bachelor of Arts, Biological Sciences (pg. 214-)
Chg  Bachelor of Science, Biological Sciences (pg. 216-238)
Chg  Bachelor of Science, Natural Sciences (pg. 239-265)

IX.  Old Business

X.  Informational Items and Adjournment
### 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>ASSC Division of Social Science</td>
<td>Anthropology</td>
</tr>
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</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>ANTH</td>
<td>A464</td>
<td>N/A</td>
<td>3</td>
<td>(Lecture + Lab)</td>
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<table>
<thead>
<tr>
<th>6. Complete Course Title</th>
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<tbody>
<tr>
<td>Culture and Globalization</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Abbreviated Title for Transcript (30 character)</th>
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<table>
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<tr>
<th>7. Type of Course</th>
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<tr>
<td>Academic</td>
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<tr>
<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
- Title
- Grading Basis
- Course Description
- Test Score Prerequisites
- Other Restrictions
- Other

<table>
<thead>
<tr>
<th>9. Repeat Status Yes</th>
<th># of Repeats</th>
<th>Max Credits</th>
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<tbody>
<tr>
<td>Yes</td>
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<td>3</td>
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<thead>
<tr>
<th>10. Grading Basis</th>
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<tbody>
<tr>
<td>A-F</td>
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<table>
<thead>
<tr>
<th>11. Implementation Date</th>
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<tbody>
<tr>
<td>From: Spring/2015</td>
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<table>
<thead>
<tr>
<th>12. Cross Listed with</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH A664</td>
</tr>
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</table>

Cross-Listed Coordination

<table>
<thead>
<tr>
<th>13. Initiator Name:</th>
<th>Marie Lowe</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signed Initials:</td>
<td></td>
</tr>
<tr>
<td>Date:</td>
<td></td>
</tr>
</tbody>
</table>

Impacted Courses or Programs:

- **Anthropology BA/BS**: 10-31-12 — Steve Langdon
- **International Studies**: 02-12-13 — Dom Vandommelen
- **Others**: 10-31-12

<table>
<thead>
<tr>
<th>Impacted Program/Course</th>
<th>Date of Coordination</th>
<th>Chair/Coordinator Contacted</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Anthropology BA/BS</td>
<td>10-31-12</td>
<td>Steve Langdon</td>
</tr>
<tr>
<td>2. International Studies</td>
<td>02-12-13</td>
<td>Dom Vandommelen</td>
</tr>
<tr>
<td>3. Others</td>
<td>10-31-12</td>
<td></td>
</tr>
</tbody>
</table>

Initiator Name (typed): **Marie Lowe**

<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. A template is available at <a href="http://www.uaa.alaska.edu/governance">www.uaa.alaska.edu/governance</a>.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>13b. Coordination Email</th>
<th>Date: 04-02-13</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>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>13c. Coordination with Library Liaison</th>
<th>Date: 04-02-13</th>
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<table>
<thead>
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<th>14. General Education Requirement</th>
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<tr>
<td>Mark appropriate box:</td>
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</table>

<table>
<thead>
<tr>
<th>15. Course Description (suggested length 20 to 50 words)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exploration of the relationship between culture and globalization through an examination of global capitalism and ethnographic experiences in the workplace, in the context of transnational migration and diasporas, and through the influence of new information technologies and media on values, beliefs, and practices.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>16a. Course Prerequisite(s) (list prefix and number or test code and score)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH A101 or ANTH A202 or ANTH A250 completed with a minimum grade of C.</td>
</tr>
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</table>

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

<table>
<thead>
<tr>
<th>16c. Other Restriction(s)</th>
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</thead>
<tbody>
<tr>
<td>College</td>
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<tr>
<td>Major</td>
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<tr>
<td>Class</td>
</tr>
<tr>
<td>Level</td>
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<thead>
<tr>
<th>16d. Registration Restriction(s) (non-codable)</th>
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<tbody>
<tr>
<td>Junior or Senior Standing</td>
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<table>
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<tr>
<th>17. Mark if course has fees</th>
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<tr>
<th>18. Mark if course is a selected topic course</th>
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<thead>
<tr>
<th>19. Justification for Action</th>
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</thead>
<tbody>
<tr>
<td>The class has been taught three times as a selected topics course. A permanent upper division anthropology course is needed to expose students to contemporary ethnographic studies about the relationship between globalization and sociocultural change. It would fill an ethnography course requirement for dept majors and it is also proposed as a capstone option for ANTH and IS majors.</td>
</tr>
<tr>
<td>Initiator (faculty only)</td>
</tr>
<tr>
<td>--------------------------</td>
</tr>
<tr>
<td>Dr. Marie E. Lowe</td>
</tr>
</tbody>
</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>Initiator (faculty only)</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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<thead>
<tr>
<th>Department 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>
<th>Approved</th>
<th>Disapproved</th>
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<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>
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<table>
<thead>
<tr>
<th>Provost or Designee</th>
<th>Date</th>
<th>Approved</th>
<th>Disapproved</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>


I. **Initiation Date:** October 2013

II. **Curriculum Action Request**

   A. **School:** College of Arts and Sciences
   B. **Course Prefix:** ANTH
   C. **Course Number:** A464
   D. **Number of Credits:** 3
   E. **Contact Hours:** 3+0
   F. **Course Program:** BA/BS Anthropology
   G. **Course Title:** Culture and Globalization
   H. **Grading Basis:** A-F
   I. **Implementation Date:** Spring/2015
   J. **Cross-listed/Stacked:** Stacked with ANTH A664
   K. **Course Description:** Exploration of the relationship between culture and globalization through an examination of global capitalism and ethnographic experiences in the workplace, in the context of transnational migration and diasporas, and through the influence of new information technologies and media on values, beliefs, and practices.
   L. **Course Prerequisites:** ANTH A101 or ANTH A202 or ANTH A250 with a minimum grade of a C.
   M. **Course Co-requisites:** N/A
   N. **Other Restrictions:** Class
   O. **Registration Restrictions:** Completion of all GER Tier 1 (Basic College-Level Skills) courses; Junior or Senior standing
   P. **Course Fees:** N/A
   Q. **Course Attributes:** General Education Requirement, Integrative Capstone

III. **Instructional Goals and Student Learning Outcomes**

   A. The instructor will do the following in class:
      1. Discuss course readings with use of discussion guide and with an emphasis on rhetorical argument skills and Socratic reasoning.
      2. Facilitate student familiarity with cultural dimensions of globalization and modernity through readings and discussion.
3. Explain and guide students through the research process via step-by-step and semester-long review of the literature, outlining assignments, and writing by way of drafts.
4. Facilitate the production of a formal piece of academic writing.

B. Student Learning Outcomes and Assessment

Students will be able to:

<table>
<thead>
<tr>
<th>Student Learning Outcomes</th>
<th>Assessment Procedures</th>
<th>Integrative Capstone Goals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effectively communicate using rhetorical argument and Socratic reasoning skills.</td>
<td>Graded class discussions.</td>
<td>Effective Communication, knowledge integration, critical thinking.</td>
</tr>
<tr>
<td>Apply critical thinking and informed understandings to positions on the history and effects of large drivers of sociocultural change like globalization, what culture is, and the logic of cultural relativism.</td>
<td>Graded class discussions.</td>
<td>Critical thinking, knowledge integration.</td>
</tr>
<tr>
<td>Construct a literature review, formulate a research question and argument, locate references, build a bibliography, and write by way of drafts.</td>
<td>Assignments devoted to a step-by-step process for constructing a formal research paper.</td>
<td>Information literacy, knowledge integration, critical thinking.</td>
</tr>
<tr>
<td>Build academic writing skills.</td>
<td>Midterm paper with bibliography expanded to final term paper.</td>
<td>Information literacy, knowledge integration, critical thinking.</td>
</tr>
</tbody>
</table>
IV. Course Level Justification

This course will build on and refine student understanding of historical processes, cultural diversity, and human adaptation to change introduced in lower division anthropology courses. As an Integrative Capstone requirement, the course advances the analysis, writing, and presentation skills previously acquired in Tier 1 GER courses and other anthropology courses.

V. Topical Course Outline

A. Introductions: definitions of globalization and culture

1. Overview of course subtopics: Development, Mobility, Media.
2. Globalization as Neoliberalism, Cosmopolitanism and Consumption, the Rise of Fundamentalisms and Nationalisms, and Identity Politics.
3. Argumentation and Reasoning Skills.
4. Literature Review and Library Research Fundamentals.
5. Selection of a research topic.

B. Development, Devolution, Discourse

1. Development theory.
2. Empirical/Ethnographic treatment of capitalism and the modern workplace.
3. Formulation of a research topic thesis statement, bibliography, research paper outline and exposition.

C. Mobility: Migration, Transnationalism, Diasporas

1. Migration theory.
2. Empirical/Ethnographic treatment of migration.
3. Writing by way of drafts.

D. Media, Technology, and Identity

1. Identity Theory.
4. Presentation and Articulation of research topic.

E. Conclusions

Cultural Homogenization vs. Cultural Adaptation
VI. Suggested Texts

A. Theoretical Foundations:


B. Ethnographies/Ethnographic Writings (Instructor will update periodically and choose three main works per semester):


C. Videos:

Black, Stephanie. 2001. *Life and Debt.* *

Flaherty, Robert J. 1922. *Nanook of the North.* *

Kunuk, Zacharias. 2002. *The Fast Runner.* (Excerpts in class; full-length on reserve) *

VII. Bibliography and Resources


Miller, Mark Crispin. 2002. “What’s Wrong With This Picture”. The Nation, January 7-14:333-336.*


*Denotes classic/seminal work
# 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>Mathematics &amp; Statistics</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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<td>STAT</td>
<td>A253</td>
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<td>4</td>
<td>(4+0)</td>
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### 6. Complete Course Title
Applied Statistics for the Sciences
Applied Stats for Sciences
Abbreviated Title for Transcript (30 character)

### 7. Type of Course
- [ ] Academic
- [x] 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
- [ ] Contact Hours
- [ ] Repeat Status
- [x] Cross-Listed/Stacked
- [ ] Course Prerequisites
- [ ] Registration Restrictions
- [ ] General Education Requirement
- [ ] Other CCG (please specify)

### 9. Repeat Status
- [ ] No
- [ ] # of Repeats: n/a

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

### 11. Implementation Date
- From: Spring/2015
- To: 99/9999

### 12. Cross Listed 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](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>Geography and Environmental Science</td>
<td>08/07/14</td>
<td>Dorn VanDommelen</td>
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<tr>
<td>2.</td>
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<td>3.</td>
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</table>

Initiator Name (typed): **Kanapathi Thiru**
Initiator Signed Initials: ________ Date: __________

### 13b. Coordination Email
- Date: 08/11/14
- Submitted to Faculty Listserv: [uaa-faculty@lists.uaa.alaska.edu](mailto:uaa-faculty@lists.uaa.alaska.edu)

### 13c. Coordination with Library Liaison
- Date: 08/13/14

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

### 15. Course Description (suggested length 20 to 50 words)
Intensive survey course with applications for the sciences. Topics include descriptive statistics, probability, random variables, binomial, Poisson and normal distributions, estimation and hypothesis testing of common parameters, analysis of variance for single factor and two factors, correlation, and simple linear regression. A major statistical software package will be utilized.

### 16a. Course Prerequisite(s) (list prefix and number or test code and score)
- MATH A107 or MATH A109 or MATH A172 with 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)
If prerequisite is not satisfied, appropriate SAT, ACT or AP scores or approved UAA placement test required.

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

### 18. Justification for Action
MATH A172 is more applied than MATH A107; but essentially covers similar topics and hence a suitable prerequisite for STAT A253.

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14
<table>
<thead>
<tr>
<th>Initator (faculty only)</th>
<th>Date</th>
<th>Dean/Director of School/College</th>
<th>Date</th>
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<tbody>
<tr>
<td>Kanapathi Thiru</td>
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</table>

- Approved
- Disapproved

<table>
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<tr>
<th>Department Chair</th>
<th>Date</th>
<th>Undergraduate/Graduate Academic Board Chair</th>
<th>Date</th>
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</table>

- Approved
- Disapproved

<table>
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<tr>
<th>College/School Curriculum Committee Chair</th>
<th>Date</th>
<th>Provost or Designee</th>
<th>Date</th>
</tr>
</thead>
</table>

- Approved
- Disapproved
I. **Initiation Date:** Fall 2014

II. **Course Information**
   A. **College:** College of Arts and Sciences
   B. **Course Subject/Number:** STAT A253
   C. **Credits:** 4
   D. **Contact Hours:** 4+0
   E. **Course Title:** Applied Statistics for the Sciences
   F. **Repeat Status:** No
   G. **Grading Basis:** A-F
   H. **Course Description:** Intensive survey course with applications for the sciences. Topics include descriptive statistics, probability, random variables, binomial, Poisson and normal distributions, estimation and hypothesis testing of common parameters, analysis of variance for single factor and two factors, correlation, and simple linear regression. A major statistical software package will be utilized.
   I. **Course Prerequisites:** (MATH A107 or MATH A109 or MATH A172) with minimum grade of C
   J. **Course Attributes:** UAA GER Quantitative Skill Requirement
   K. **Fees:** Yes
   L. **Stacked:** No

III. **Course Level Justification**
The course requires knowledge of topics typically covered in the prerequisite courses of MATH A107 - College Algebra or MATH A109 – Precalculus or MATH A172 – Applied Finite Mathematics.

IV. **Quantitative Skill Requirement Justification**
This is an excellent course for undergraduates to foster the analytical and mathematical abilities necessary for success in their study and professional life. The probability and statistics problems in the course challenge the students’ critical thinking and quantitative problem solving skills as well as skills in the manipulation and/or exploration of quantitative data.

V. **Instructional Goals and Student Learning Outcomes**

<table>
<thead>
<tr>
<th>A.</th>
<th><strong>Instructional Goals.</strong> The instructor will:</th>
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<tbody>
<tr>
<td>1.</td>
<td>Introduce descriptive statistics, probability and more widely used parametric statistical methods.</td>
</tr>
<tr>
<td>2.</td>
<td>Utilize real-world data sets from the sciences and introduce one major statistical package to aid statistical analyses.</td>
</tr>
<tr>
<td>3.</td>
<td>Guide with writing reports effectively communicating the statistical results.</td>
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</table>
### 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>Solve thought provoking problems and critically evaluate statistical information from real life scenarios.</td>
</tr>
<tr>
<td>2.</td>
<td>Collect data either by running an appropriate randomized experiment or from a reliable source.</td>
</tr>
<tr>
<td>3.</td>
<td>Use a major statistical software package to conduct analysis of data, being sure to validate all assumptions relevant to the selected statistical method.</td>
</tr>
<tr>
<td>4.</td>
<td>Draw conclusions and write a report effectively communicating the results.</td>
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</tbody>
</table>

### VI. Topical Course Outline

1. Descriptive Statistics
   a. Tabular and Graphical Methods
   b. Measures of Central Tendency and Dispersion
   c. Correlation
2. Probability Concepts
   a. Chance Experiments, Sample Space and Events
   b. The Definition and Postulates of Probability
   c. Counting Rules
   d. Rules of Probability
   e. Conditional Probability and Independent Events
   f. Bayes’ Rule
3. Random Variables and Probability Distributions
   a. Probability Distributions, Expected Value and Variance of Discrete Random Variables
   b. Binomial and Poisson Distributions
   c. Probability Distributions of Continuous Random Variables
   d. The Normal Distribution
   e. The Normal Approximation to the Binomial Distribution
4. Sampling Distributions
   a. Central Limit Theorem
   b. Sampling Distribution of Sample Mean
   c. Sampling Distribution of Sample Proportion
5. Estimation
   a. Point Estimators and Unbiasedness of Estimators
   b. Confidence Interval of Common Parameters
   c. Sample Size Determination
6. Inferences based on Single Sample
   a. Type I Error, Type II Error and Power of a Test
   b. Tests Concerning a Population Mean
   c. Tests Concerning a Population Proportion
7. Inferences Based on Two samples
a. Tests Concerning the Difference between Two Population Means using Independent Samples
b. Tests Concerning the Difference between Two Population Means using Paired Samples
c. Tests Concerning the Difference between Two Population Proportions using Independent Samples
d. Test for Comparing Two Population Variances using Independent samples

8. Analysis of Variance
   a. One-Way Analysis of Variance
   b. Analysis of variance of a Randomized Block Design
   c. Two-Way Analysis of Variance
   d. Post-Hoc Pair-wise Comparisons

9. Simple Linear Regression and Correlation
   a. The regression Model
   b. Estimation of Model Parameters and Statistical Inference in Simple Linear Regression
   c. Confidence Interval of the Mean Value of Y for a specified value of X
   d. Prediction Interval for the Value of Y for a specified value of X
   e. Correlation Analysis

10. Analysis of Categorical Data *
    a. Contingency Tables
    b. Chi-Squared Test of Independence

* Optional Topic

VII. Suggested Texts


VIII. Bibliography


edition. Pearson

*classic books
DRAFT—DRAFT

UAB Goals 2014-2015

Goal 1: Improve the efficiency and maintain the quality of curriculum review by adopting new procedures and by promoting the use of new technologies.

Goal 2: Work with the Office of Academic Affairs and the Office of the Registrar on academic policies and procedures.

Goal 3: Work with the Office of Academic Affairs and the Office of the Registrar on the implementation of the Course Inventory Management System.

Goal 4: Coordinate curriculum update plans with the Vice Provost for Undergraduate Academic Affairs, the Graduate Academic Board Chair, and the Academic Assessment Chair.

Goal 5: Continue the coordination of curricular affairs with college/school committee chairs, department chairs, and faculty initiators.

Goal 6: Update the Curriculum Handbook as needed.
GER Student Learning Outcomes
After completing the GERs, UAA students shall be able to:

- Communicate effectively in a variety of contexts and formats;
- Reason mathematically and analyze quantitative and qualitative data competently to reach sound conclusions;
- Relate knowledge to the historical context in which it developed and the human problems it addresses;
- Interpret different systems of aesthetic representation and understand their historical and cultural contexts;
- Investigate the complexity of human institutions and behavior to better understand interpersonal, group and cultural dynamics;
- Identify ways in which science has advanced the understanding of important natural processes;
- Locate and use relevant information to make appropriate personal and professional decisions;
- Adopt critical perspectives for understanding the forces of globalization and diversity; and
- Integrate knowledge and employ skills gained to synthesize creative thinking, critical judgment and personal experience in a meaningful and coherent manner.

- Build Knowledge of Human Institutions, Socio-Cultural Processes, and the Physical and Natural World through study of the natural and social sciences, mathematics, humanities, and the arts.
- Develop Intellectual and Practical Skills across the curriculum, including inquiry and analysis, quantitative literacy, critical and creative thinking, problem solving, written and oral communication, information literacy, and collaborative learning.
- Acquire Tools for Effective Civic Engagement in local through global contexts, including ethical reasoning and intercultural competence, with particular emphasis on Alaska and the circumpolar north.
- Integrate and Apply Learning, including ability to synthesize knowledge and skills across general and specialized studies, adapting them to new settings, questions, and responsibilities, and forming a foundation for lifelong learning.

- See more at: http://catalog.uaa.alaska.edu/undergraduateprograms/baccalaureaterequirements/gers/#sthash.0UBOo71s.dpuf
July 30, 2014

To: Sandra Pence, GER Chair  
CC: Francisco Miranda, UAB Chair  
From: Lora Volden, University Registrar

Re: General Course Requirements English A111

Issue:
Current catalog language for the general course requirements for AA and AAS degrees requires all students earning these degrees to complete English A111 as one of the Written Communication Skills courses. If a student places higher than ENGL A111, they need to file a petition, and these petitions must route all the way to the provost’s office.

Proposal:
Rather than require the specific course ENGL A111 and then a choice of one more course from a list, require 6 credits from one list. Since the other courses all require ENGL A111 as a pre-requisite, there is no reason to separate out ENGL A111. This will be more accurate and more student-friendly.

Please see the suggested catalog track changes below.

Catalog Change

Writeen Communication Skills

| ENGL A111 | 6 |
| Introduction to Composition and one of the following: |
| CIOS A260A |
| Business Communications |
| ENGL A211 |
| Academic Writing About Literature |
| ENGL A212 |
| Technical Writing |
| ENGL A213 |
| Writing in the Social and Natural Sciences |
| ENGL A214 |
| Persuasive Writing |