Submit original with signatures + 1 copy + electronic copy to UAF Governance. See http://www.uaf.edu/ufagov/faculty/cd for a complete description of the rules governing curriculum & course changes.

TRIAL COURSE OR NEW COURSE PROPOSAL

<table>
<thead>
<tr>
<th>Department</th>
<th>Mathematics &amp; Statistics</th>
<th>College/School</th>
<th>CNSM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prepared by</td>
<td>Dana Thomas &amp; Julie McIntyre</td>
<td>Phone</td>
<td>474-6253</td>
</tr>
<tr>
<td>Email Contact</td>
<td><a href="mailto:jpmcintyre@alaska.edu">jpmcintyre@alaska.edu</a></td>
<td>Faculty Contact</td>
<td>Julie McIntyre</td>
</tr>
</tbody>
</table>

1. ACTION DESIRED
(CHECK ONE):
- Trial Course
- New Course
- XXX

2. COURSE IDENTIFICATION:
- Dept: STAT
- Course #: F454
- No. of Credits: 1

Justify upper/lower division status & number of credits:

This is a capstone statistical consulting course for seniors to practice and demonstrate statistical skills they have acquired in upper division coursework.

3. PROPOSED COURSE TITLE:
Statistical Consulting Seminar

4. CROSS LISTED?
- YES/NO
- (Requires approval of both departments and deans involved. Add lines at end of form for such signatures.)

5. STACKED?
- YES/NO
- If yes, Dept: STAT
- Course #: 654

6. FREQUENCY OF OFFERING:
- Spring
- (Every or Alternate) Fall, Spring, Summer – or As Demand Warrants

7. SEMESTER & YEAR OF FIRST OFFERING (if approved):
- Spring 2011

8. COURSE FORMAT:
NOTE: Course hours may not be compressed into fewer than three days per credit. Any course compressed into fewer than six weeks must be approved by the college or school’s curriculum council. Furthermore, any core course compressed to less than six weeks must be approved by the core review committee.

COURSE FORMAT:
(check one)

OTHER FORMAT
(specific)
Mode of delivery
(specific lecture, field trips, labs, etc)

9. CONTACT HOURS PER WEEK:

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>LECTURE hours/week</td>
<td>LAB hours/week</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: # of credits are based on contact hours. 800 minutes of lecture=1 credit. 1600 minutes of lab in a science course=1 credit. 2400 minutes of practicum=1 credit. 2400-8000 minutes of internship=1 credit. This must match with the syllabus. See http://www.uaf.edu/ufagov/faculty/cd/credits.html for more information on number of credits.

OTHER HOURS (specify type)

10. COMPLETE CATALOG DESCRIPTION including dept., number, title and credits (50 words or less, if possible):

STAT F454 Statistical Consulting Seminar

Received
MAR 17 2010
Dean’s Office
College of Natural Science & Mathematics
11. COURSE CLASSIFICATIONS: (undergraduate courses only. Use approved criteria found on Page 10 & 17 of the manual. If justification is needed, attach on separate sheet.)

H = Humanities □  N = Natural Science □  S = Social Sciences □

Will this course be used to fulfill a requirement for the baccalaureate core? YES XXX NO

IF YES, check which core requirements it could be used to fulfill:
0 = Oral Intensive, Format 6 □  W = Writing Intensive, Format 7 □
Natural Science, Format 8 □

12. COURSE REPEATABILITY:

Is this course repeatable for credit? XXX YES □  NO □

Justification: Indicate why the course can be repeated (for example, the course follows a different theme each time).

How many times may the course be repeated for credit? 3 TIMES

If the course can be repeated with variable credit, what is the maximum number of credit hours that may be earned for this course? CREDITS □

13. GRADING SYSTEM:

LETTER: □  PASS/FAIL: XXX

14. PREREQUISITES

Completion of STAT F260X or F300, STAT 401 and completion or concurrent enrollment in MATH 408.

These will be required before the student is allowed to enroll in the course.

RECOMMENDED Classes, etc. that student is strongly encouraged to complete prior to this course.

15. SPECIAL RESTRICTIONS, CONDITIONS

16. PROPOSED COURSE FEES $ □

Has a memo been submitted through your dean to the Provost & VCAS for fee approval? Yes/No □

17. PREVIOUS HISTORY

Has the course been offered as special topics or trial course previously? Yes/No □

If yes, give semester, year, course #, etc.: □

18. ESTIMATED IMPACT

WHAT IMPACT, IF ANY, WILL THIS HAVE ON BUDGET, FACILITIES/SPACE, FACULTY, ETC.

The B.S. in Statistics is being eliminated in a related proposal and a new Statistics option in the Mathematics B.S. program created. The old B.S. in statistics required a senior project. This proposal for a senior level statistical consulting seminar will replace that senior project requirement and will be stacked with an existing graduate course. This change will allow undergraduate seniors to work with graduate students on consulting and help build a better learning community in statistics.
19. LIBRARY COLLECTIONS

Have you contacted the library collection development officer (ffklj@uaf.edu, 474-6695) with regard to the adequacy of library/media collections, equipment, and services available for the proposed course? If so, give date of contact and resolution. If not, explain why not.

No XXX Yes □ Adequate collections are in place for existing graduate course and new proposed stacked undergraduate course.

20. IMPACTS ON PROGRAMS/DEPTS

What programs/departments will be affected by this proposed action?
Include information on the Programs/Departments contacted (e.g., email, memo)

None

21. POSITIVE AND NEGATIVE IMPACTS

Please specify positive and negative impacts on other courses, programs and departments resulting from the proposed action.

Additional statistical consulting for UAF faculty and students.

JUSTIFICATION FOR ACTION REQUESTED

The purpose of the department and campus-wide curriculum committees is to scrutinize course change and new course applications to make sure that the quality of UAF education is not lowered as a result of the proposed change. Please address this in your response. This section needs to be self-explanatory. Use as much space as needed to fully justify the proposed course.

The B.S. in Statistics is being eliminated in a related proposal and a new Statistics option in the Mathematics B.S. program created. The old B.S. in statistics required a senior project. This proposal for a senior level statistical consulting seminar will replace that senior project requirement and will be stacked with an existing graduate course. This change will allow undergraduate seniors to work with graduate students on consulting and help build a better learning community in statistics.

APPROVALS:

Signature, Chair, Program/Department of: Mathematics & Statistics
Date 3/14/2010

Signature, Chair, College/School Curricular Council for: CNSM
Date 3/16/2010

Signature, Dean, College/School of: CNSM
Date 3/17/10

Signature of Provost (if applicable)
Offerings above the level of approved programs must be approved in advance by the Provost.

ALL SIGNATURES MUST BE OBTAINED PRIOR TO SUBMISSION TO THE GOVERNANCE OFFICE

Signature, Chair, UAF Faculty Senate Curriculum Review Committee
Date
STAT 454/654 Statistical Consulting Seminar
Spring 2010 1 Credit
Wednesday 2:15 – 3:15 308 Gruening

Instructor: Dr. Julie McIntyre, 306B Chapman Hall

Contact: phone: 474-7772, email: jpmcintyre@alaska.edu, mailbox: Chapman 101

Office Hours: MW 10:30 – 11:30; or by appointment

Text: None

Prerequisites STAT 454: STAT 200X or STAT 300; STAT 401; permission of instructor

Prerequisites STAT 654: STAT 200X or STAT 300; STAT 401; completion or concurrent enrollment in STAT 651, STAT 652 or STAT 653; permission of instructor.

Course Description: This course is an introduction to the practice of statistical consulting and data analysis. Emphasis will be on interaction with researchers and identification of scientific and statistical issues relevant to the research problem. Regular class meeting will be combined with supervised meetings with researchers. Concepts in mathematical statistics will be combined with applications from a variety of fields.

Course Goals: To give students real experience as statistical consultants for researchers. Students will participate in consulting sessions and be encouraged to identify statistical problems and suggest solutions. Students will become experienced in other areas related to the practice of statistics. These include literature searches using statistical databases, typesetting mathematical formulas using the software \LaTeX, and setting fees and rates for private consulting.

Student Learning Outcomes: Students will learn how to conduct a statistical consulting session with a researcher or client.

Instructional Methods: The course will consist of presentations by outside researchers, and small class discussion.

Evaluation: This course is graded as Pass/Fail. All students must participate in consulting sessions and class discussion to receive a passing grade. More than three unexcused absences will result in automatic failure of the course. In addition, students enrolled in STAT 654 will be required to meet with class presenters for follow-up at least one time during the semester, and provide a short presentation to the class the following week.

Disability Services: UAF’s Office of Disability Services implements the Americans with Disabilities Act. I will work with this office to provide reasonable accommodation to students with disabilities. Please see me if this applies to you.
Other Policies: The Department of Mathematical Sciences has policies on early finals and incomplete grades (see http://www.dms.uaf.edu/dms/Policies.html). See also the UAF Student Code of Conduct (http://www.uaf.edu/catalog/current/academics/regs3.html).

Course Calendar STAT 454/654: The following schedule is subject to change

<table>
<thead>
<tr>
<th>Day</th>
<th>Date</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>W</td>
<td>1/27</td>
<td>Introduction and Syllabus</td>
</tr>
<tr>
<td>W</td>
<td>2/3</td>
<td>Consulting Session (Biology)</td>
</tr>
<tr>
<td>W</td>
<td>2/10</td>
<td>Discussion and Follow-Up</td>
</tr>
<tr>
<td>W</td>
<td>2/17</td>
<td>Literature Searches</td>
</tr>
<tr>
<td>W</td>
<td>2/24</td>
<td>Consulting Session (Soil Science)</td>
</tr>
<tr>
<td>W</td>
<td>3/3</td>
<td>Discussion and Follow-Up</td>
</tr>
<tr>
<td>MWF</td>
<td>3/8 – 3/12</td>
<td><strong>Spring Break</strong></td>
</tr>
<tr>
<td>W</td>
<td>3/17</td>
<td>Consulting Session (Biology)</td>
</tr>
<tr>
<td>W</td>
<td>3/24</td>
<td>Discussion and Follow-Up</td>
</tr>
<tr>
<td>W</td>
<td>3/31</td>
<td>Introduction to \LaTeX\</td>
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<tr>
<td>W</td>
<td>4/7</td>
<td>Tentative Consulting Session (Psychology)</td>
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<tr>
<td>W</td>
<td>4/14</td>
<td>Consulting Practice: Fees, Ethics and More</td>
</tr>
<tr>
<td>W</td>
<td>4/21</td>
<td>Consulting Session (IAB)</td>
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<tr>
<td>W</td>
<td>4/28</td>
<td>Discussion and Follow-Up</td>
</tr>
<tr>
<td>W</td>
<td>5/5</td>
<td>Semester Wrap-Up</td>
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</tbody>
</table>