Proposal Form For Addition And Revision Of Courses

1. Proposing College / School: College of Human Sciences
   Department: Human Development and Family Studies

2. Course Prefix and Number: STAT 2010
3. Effective Term: Fall 2011

4. Course Title:
   Statistics for Social and Behavioral Sciences
   Abbreviated Title (30 characters or less):

5. Requested Action:  
   - [ ] Renumber a Course
   - [ ] Add a Course
   - [ ] Revise a Course
   - [ ] Proposed Course Number:
   - [ ] Type of Revision:
   - [ ] Chg Prereq

6. Course Credit:
<table>
<thead>
<tr>
<th>Contact/Group Hours</th>
<th>Scheduled Type (e.g.: Lab, Lecture, Practicum, Directed Study)</th>
<th>Weekly or Per Term?</th>
<th>Credit Hours</th>
<th>Anticipated Enrollment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Hours (Repeatability): 4</td>
<td>3</td>
<td>Lecture</td>
<td>weekly</td>
<td>3</td>
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<tr>
<td>2</td>
<td>Lab</td>
<td>weekly</td>
<td>1</td>
<td>40</td>
</tr>
</tbody>
</table>
   Total Credit Hours: 4

7. Grading Type:  
   - [ ] Regular (ABCDF)
   - [ ] Satisfactory/Unsatisfactory (S/U)
   - [ ] Audit

8. Prerequisites/Corequisites:
   MATH 1100 or MATH 1120 or MATH 1130 or MATH 1150

9. Restrictions: List specific restriction in space above.
   - [ ] College
   - [ ] Major
   - [ ] Standing
   - [ ] Degree

10. Course Description:
    (20 Words or Less; exactly as it should appear in the Bulletin)
    Introduction to basic principles of statistical reasoning and statistical procedures used in data analysis in the social and behavioral sciences.

11. May Count Either:
    (Indicate if this particular course cannot be counted for credit in addition to another)

12. Affected Program(s):
    (Respond "N/A" if not included in any program; attach memorandum if more space is required)
    | Program Type (e.g.: minor, major, etc.) | Program Title (e.g.: MS in Chemistry, Performance Option, Minor in Art) | Requirement or Elective? (required or optional?) |
    |---------------------------------------|-------------------------------------------------|------------------------------------------------|
    | Majors | Many majors in CLA and CHS | required |

13. Overlapping or Duplication of Other Units' Offerings:
    (If course is included in any other degree program, is used as an elective frequently by other unit(s), or is in an area similar to that covered by another college/school, attach correspondence with relevant unit)
   - [ ] Applicable
   - [ ] Not Applicable

Date: 07/20/2011 (MM/DD/YYYY)
14. Justification:

Current pre-requisites are Math 1100 (Finite Math and Applications) or Math 1120 (Pre-Calculus Algebra) but not Math 1130 (Pre-Calculus Trigonometry) or Math 1150 (Pre-Calculus Algebra and Trigonometry). CHS students do not receive credit for MATH 1100 or 1120 but do take MATH 1130 or 1150 (depending on major). Since these latter courses are also precalculus, like the acceptable pre-req MATH 1120, we request their addition to the list of acceptable pre-reqs.

(Includes a concise, yet adequate rationale for the addition/revision of the course, citing accreditation, assessments (faculty, graduate, and/or external) where applicable)

15. Resources:

The revisions do not require new resources.

(Indicate whether existing resources such as library materials, classroom/laboratory space, and faculty appointments are adequate to support the proposed addition/revision; if additional resources are required, indicate how such needs will be met, referencing the appropriate level of authorization – i.e.: Dean -- where necessary; if no additional resources or shifting of resources will be necessary, respond "Not Applicable")

16. Student Learning Outcomes:

Students will learn the basic steps of data analysis and the presentation of results. They will learn to evaluate analysis and statistics used in published reports. They will conduct analyses and arrange numeric results in tables and graphs and explain in words what the results mean.

(State in measurable terms (reflective of course level) what students should be able to do when they have completed this course)

17. Course Content Outline:

<table>
<thead>
<tr>
<th>COURSE SCHEDULE</th>
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<tbody>
<tr>
<td>Day</td>
</tr>
<tr>
<td>18 Aug</td>
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<td>22 Aug</td>
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<td>29 Sep</td>
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<td>03 Oct</td>
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</tbody>
</table>
04 Oct Single and Paired T-Tests (Nolan Chapter 9)  
05 Oct SPSS Chapter 7  
06 Oct Single and Paired T-Tests (Nolan Chapter 9; last day to withdraw without grade penalty)  
10 Oct SPSS Chapter 7  
11 Oct Single and Paired T-Tests (Nolan Chapter 9)  
12 Oct SPSS Chapter 7  
13 Oct Independent T-Tests (Nolan Chapter 10)  
17 Oct SPSS Chapter 7; lab assignment due  
   Homework for Nolan chapters 9-10 due  
18 Oct Independent T-Tests (Nolan Chapter 10)  
19 Oct Examination 3  
20 Oct One-way ANOVA (Nolan Chapter 11)  
24 Oct SPSS Chapter 8  
25 Oct One-way ANOVA (Nolan Chapter 11)  
26 Oct SPSS Chapter 8 and 10; lab assignment due  
27 Oct One-way ANOVA (Nolan Chapter 11)  
31 Oct SPSS Chapter 9; lab assignment due  
01 Nov Two-way ANOVA (Nolan Chapter 12)  
02 Nov SPSS Chapter 9 and 10; lab assignment due  
   Homework for Nolan chapters 11-12 due  
03 Nov Two-way ANOVA (Nolan Chapter 12)  
07 Nov Examination 4  
08 Nov Correlation (Nolan Chapter 13)  
09 Nov SPSS Chapter 11  
10 Nov Correlation (Nolan Chapter 13)  
14 Nov SPSS Chapter 11; lab assignment due  
15 Nov Regression (Nolan Chapter 14)  
16 Nov SPSS Chapter 11 and 12; lab assignment due  
17 Nov Regression (Nolan Chapter 14)  
22 Nov No Class—Thanksgiving Break  
28 Nov SPSS Chapter 13  
29 Nov Chi-Square (Nolan Chapter 15)  
30 Nov SPSS Chapter 13; lab assignment due  
   Homework for Nolan chapters 13-15 due  
01 Dec Chi-Square (Nolan Chapter 15)  
XX Dec Final Exam in Spidle 136 at XX

(Provide a comprehensive, week-by-week breakdown of course content, including assignment due dates)

18. Assignments / Projects:

**COURSE REQUIREMENTS**

Required Readings: It is imperative that you read and study the assigned chapters. Although you may not understand all that you read, reading the text will give you familiarity with the concepts that will be discussed. It is highly encouraged after lecture or lab that you go back to your textbook and review the concepts covered. Repetition will help you retain the material learned. We will cover all 15 chapters in your textbook.

Attendance: Attendance for lectures and labs will not be recorded. However, it is highly suggested that you attend each and every lecture and lab. Missing class will result in missing important information that will help
you in the course.

Homework: There will be homework assigned for each chapter. Each homework assignment will be worth 10 points. Your lowest chapter homework score will be dropped. Homework will be due on the lab date prior to each exam. Once you turn in your homework, you will be given the answers to the problems. You may use the answers in concordance with the questions to help you study for the exam.

Lab Work: There will be 13 lab assignments (one for each SPSS chapter) over the semester. Each lab assignment will be worth 5 points and will be administered during your lab time. You may use any resource available to you to complete the lab exercise including the textbook, notes, internet, classmates, and GTA.

Examinations: There will be five examinations in this course. Each exam will be worth 50 points and will be taken during your lab time. The examinations will not be cumulative. Each exam will contain 20 multiple choice questions worth 1 point each. The remainder of the exam will be computational. You may use the statistical package SPSS for some of the questions. Partial credit may be given if you show your work. If you use SPSS, you may want to double check your work by hand if you have time.

(List all quizzes, projects, reports, activities and other components of the course grade -- including a brief description of each assignment that clarifies its contribution to the course’s learning objectives)

19. Rubric and Grading Scale:

<table>
<thead>
<tr>
<th>COURSE GRADING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework</td>
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<tr>
<td>Lab work</td>
</tr>
<tr>
<td>Examinations</td>
</tr>
<tr>
<td>Total Points</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>GRADE</th>
<th>POINTS NEEDED</th>
</tr>
</thead>
<tbody>
<tr>
<td>A (90%)</td>
<td>405</td>
</tr>
<tr>
<td>B (80%)</td>
<td>360</td>
</tr>
<tr>
<td>C (70%)</td>
<td>315</td>
</tr>
<tr>
<td>D (60%)</td>
<td>270</td>
</tr>
<tr>
<td>F (below 60%)</td>
<td>below 270</td>
</tr>
</tbody>
</table>

(List all components of the course grade -- including attendance and/or participation if relevant -- with point totals for each; indicate point totals and ranges or percentages for grading scale; for S/U grading, detail performance expectations for a passing grade)

20. Justification for Graduate Credit: NA

(Include a brief statement explaining how the course meets graduate educational standards (i.e.: rigorous standards for evaluation, development of critical thinking and analytical skills, etc.))

(Included below are standard statements regarding course policies. If necessary, a statement may be altered to reflect the academic policies of individual faculty members and/or the academic unit or department, provided that there is no conflict with the Tiger Cub. Faculty Handbook, or any existing university policy.)

POLICY STATEMENTS

Attendance: Although attendance is not required, students are expected to attend all classes, and will be held responsible for any content covered in the event of an absence.

Excused Absences: Students are granted excused absences from class for the following reasons: illness of the student or serious illness of a member of the student’s immediate family, the death of a member of the student’s immediate family, trips for student organizations sponsored by an academic unit, trips for university classes, trips for participation in intercollegiate athletic events, subpoena for a court appearance, and religious holidays. Students who wish to have an excused absence from class for any other reason must contact the instructor in advance of the absence to request permission. The instructor will weigh the merits of the request, and render a decision. When feasible, the student must notify the instructor prior to the occurrence of any excused absences, but in no case shall such notification occur more than one week after the absence. Appropriate documentation for all excused absences is required. Please see the Tiger Cub for more information on excused absences.)
Joe Pittman - Re: Stat 2010

From: Susan Hubbard
To: Larocque, Daniel; Pittman, Joe
Date: 7/20/2011 9:27 AM
Subject: Re: Stat 2010
CC: Svyantek, Daniel

I agree. Joe and I will work together to create the required paperwork for the curriculum committee and will obtain the appropriate approvals to make the prerequisite change. Hopefully, this change will decrease the amount of time spent registering students individually for the course. I will be in touch if we need additional signatures for the request.

Susan

Dr. Susan Hubbard
Associate Dean for Academic Affairs and Professor
College of Human Sciences
266 Spidle Hall
Auburn University, AL 36849
334 844-4790 Phone
334 844-3749 Fax

>>> Dan Larocque <larocdj@auburn.edu> 7/19/2011 3:58 PM >>>

Hi Joe,

I'm in agreement with Dan and see no problems in adding those courses to the list of prereqs.

Best,
Dan LaRocque
On Jul 19, 2011, at 3:40 PM, Joe Pittman wrote:

Hi Dan,

FYI, we now have STAT 2010 classes available, so you can announce to students in your Fall STAT 2010 class that if they are CHS students and would rather take the class in their own college, they can register at their convenience. But this brings be to a question.

Stat 2010 has an odd pre-requisite situation I wanted your thoughts about.

The pre-reqs are Math 1100 (Finite Math and Applications) or Math 1120 (Pre-Calculus Algebra) but not Math 1130 (Pre-Calculus Trigonometry) or Math 1150 (Pre-Calculus Algebra and Trigonometry). In CHS, neither 1100 nor 1120 can count for credit, but depending on the department and major, students take either 1130 or 1150. Since they are all pre-calculus, would you have an objection if we requested that these two classes were added to the list of acceptable pre-requisites?

I've copied our associate deans for Academic Affairs on this message in case they have ideas.

Joe