Term Information

Effective Term: Summer 2014
Previous Value: Summer 2013

Course Change Information

What change is being proposed? (If more than one, what changes are being proposed?)
Update course objectives and topics. Remove Lima as a campus of offering.

What is the rationale for the proposed change(s)?
The updated course objectives and topics reflect the actual implementation of the semester curriculum. The Consumer and Family Financial Management major is being discontinued on the OSU-Lima campus effective May 31, 2014. Official letters from the Associate Dean at OSU-Lima and the Curriculum Chair in Human Sciences are attached.

What are the programmatic implications of the proposed change(s)?
(e.g. program requirements to be added or removed, changes to be made in available resources, effect on other programs that use the course)?
The updated course objectives and topics do not result in any programmatic implications.

Is approval of the request contingent upon the approval of other course or curricular program request? No
Is this a request to withdraw the course? No

General Information

Course Bulletin Listing/Subject Area: Consumer Sci: Con&Fam Fin Serv
Fiscal Unit/Academic Org: Human Development & Family Sci - D1251
College/Academic Group: Education & Human Ecology
Level/Career: Undergraduate
Course Number/Catalog: 4150
Course Title: Quantitative Methods in Consumer Sciences
Transcript Abbreviation: Quant Meth in CS
Course Description: Application of data analysis to facilitate decision making with respect to consumer sciences.
Semester Credit Hours/Units: Fixed: 3

Offering Information

Length Of Course: 14 Week, 7 Week, 4 Week (May Session)
Flexible Scheduled Course: Never
Does any section of this course have a distance education component? No
Grading Basis: Letter Grade
Repeatable: No
Course Components: Laboratory, Lecture, Recitation
Grade Roster Component: Lecture
Credit Available by Exam: No
Admission Condition Course: No
Off Campus: Never
Campus of Offering: Columbus
Previous Value: Columbus, Lima
Prerequisites and Exclusions

Prerequisites/Corequisites
Prereq: ConSci 3940 (340), and Stat 1430 (133), 1350 (135), or 1450 (145), and CSE 1111 (101), 2111 (200), or 1223 (201).

Exclusions
Not open to students with credit for CSCFmFnS 644.

Cross-Listings

Cross-Listings

Subject/CIP Code

Subject/CIP Code 19.0201
Subsidy Level Baccalaureate Course
Intended Rank Junior, Senior

Requirement/Elective Designation

Required for this unit's degrees, majors, and/or minors

Course Details

Course goals or learning objectives/outcomes
• Conduct appropriate inferential statistical tests for given purposes.
• Interpret the results of statistical tests and draw appropriate conclusions.
• Incorporate appropriate data into simple decision making templates.
• Design and assess the effectiveness of research methods.
• Present research results

Previous Value
• Conduct appropriate inferential statistical tests for given purposes.
• Interpret the results of statistical tests and draw appropriate conclusions.
• Quantify uncertainty at least two ways.
• Incorporate appropriate data into simple decision making templates.

Content Topic List
• Sampling
• Means tests
• Equality of variance tests
• Independence tests
• Relationship estimation (correlation and regression)
• Forecasting techniques
Previous Value

- Sampling
- Means tests
- Equality of variance tests
- Independence tests
- Relationship estimation (correlation and regression)
- Forecasting techniques
- Quality control
- Risk analysis and Monte Carlo simulations
- Queues and process simulation modeling
- Linear optimization
- Non-linear optimization

Attachments

- Upload Syllabus CSCFFS 4150.pdf: CSCFFS 4150
  (Syllabus. Owner: Montalto,Catherine P)
- Upload CFSS Lima Campus discontinuation approval.pdf: Letter from OSU-Lima
  (Other Supporting Documentation. Owner: Montalto,Catherine P)
- Upload CFFS discontinuation letter.pdf: Letter from Human Sciences
  (Other Supporting Documentation. Owner: Montalto,Catherine P)

Comments

Workflow Information

<table>
<thead>
<tr>
<th>Status</th>
<th>User(s)</th>
<th>Date/Time</th>
<th>Step</th>
</tr>
</thead>
<tbody>
<tr>
<td>Submitted</td>
<td>Montalto,Catherine P</td>
<td>12/18/2013 12:56 PM</td>
<td>Submitted for Approval</td>
</tr>
<tr>
<td>Approved</td>
<td>Buckworth,Janet</td>
<td>12/18/2013 02:23 PM</td>
<td>Unit Approval</td>
</tr>
<tr>
<td>Pending Approval</td>
<td>Achterberg,Cheryl L, Warnick,Bryan R., Odum,Sarah A., Zircher,Andrew Paul</td>
<td>12/18/2013 02:23 PM</td>
<td>College Approval</td>
</tr>
</tbody>
</table>
CSCFFS 4150 Quantitative Methods in Consumer Sciences (3 cr.)

Course Description
Application of data analysis to facilitate decision-making with respect to consumer sciences.

Course Prerequisites
CON SCI 3940 (340) and STAT 1430 (133), 1350 (135), or 1450 (145) and CSE 1111 (101), 2111 (200) or 1223 (201). Not open to students with credit for CSCF/MFNS 644.

Course Objectives
Following successful completion of this course, the student should be able to:
1. Design and assess the effectiveness of research methods.
2. Conduct appropriate inferential statistical tests for given purposes.
3. Interpret the results of statistical tests and draw appropriate conclusions.
4. Incorporate appropriate data into simple decision making templates.
5. Present research findings.

Course Requirements

<table>
<thead>
<tr>
<th>Course Requirement</th>
<th>Percent of final grade</th>
<th>Points possible</th>
</tr>
</thead>
<tbody>
<tr>
<td>Problem Sets (10 @ 25 points)</td>
<td>42%</td>
<td>250 points</td>
</tr>
<tr>
<td>Final Problem Set</td>
<td>8%</td>
<td>50 points</td>
</tr>
<tr>
<td>Three Examinations @ 100 points each</td>
<td>50%</td>
<td>300 points</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
<td><strong>600 points</strong></td>
</tr>
</tbody>
</table>

Course Grade
The course final grade will be determined according to the following scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Points</th>
<th>Grade</th>
<th>Points</th>
<th>Grade</th>
<th>Points</th>
<th>Grade</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>93-100%</td>
<td>B+</td>
<td>87-89%</td>
<td>C+</td>
<td>77-79%</td>
<td>D+</td>
<td>67-69%</td>
</tr>
<tr>
<td>A-</td>
<td>90-92%</td>
<td>B</td>
<td>83-86%</td>
<td>C</td>
<td>73-76%</td>
<td>D</td>
<td>60-66%</td>
</tr>
<tr>
<td></td>
<td>540-557.9</td>
<td></td>
<td>498-521.9</td>
<td></td>
<td>438-461.9</td>
<td></td>
<td>360-401.9</td>
</tr>
<tr>
<td>B-</td>
<td>80-82%</td>
<td>C-</td>
<td>70-72%</td>
<td>E</td>
<td>below 60%</td>
<td></td>
<td>Below 360</td>
</tr>
<tr>
<td></td>
<td>480-497.9</td>
<td></td>
<td>420-437.9</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Textbook (Required)

Data Files
Data files used throughout the text in examples and that will be needed to complete the problem sets are available at: http://wps.prenhall.com/bp_evans_stats_5/220/56508/14466179.cw/index.html
Problem Sets
Thirteen (13) problem sets (25 points each) will be posted on the Carmen course website throughout the semester. The three lowest of these thirteen problem set grades will be dropped leaving the ten highest problem set grades counting toward the course grade. The final problem set (50 points) will be posted on the Carmen course website toward the end of the semester and this problem set counts toward the course grade (i.e. The final problem set cannot be one of the grades that is dropped). Problem sets are due before 5:00 p.m. on the due date and must be submitted to the Carmen Dropbox. Problem sets should NOT be emailed to the instructor. All grading and feedback for problem sets is done on Carmen. You are encouraged to begin these problem sets early so that questions can be raised and discussed in class.

Problem sets will include questions from the textbook and questions prepared by the instructor and will use the data files available at http://wps.prenhall.com/bp_evans_stats_5/220/56508/14466179.cw/index.html. Your work and answers to each assigned problem should be on a separate sheet in an Excel 2010 workbook and the sheets and problems should be in ascending order. Each sheet tab should be labeled with the problem number (i.e. Q1, Q2, etc.). The name of the file should always be your last name followed by the letters “ps” and the number of the problem set (i.e. lastnameps1).

Each student is to do her/his own work. You may confer with classmates about the problem sets, but you must create your own spreadsheets and prepare your own answers. There are no group assignments. All relevant calculations are to be included with the problem set answers. Substantial points will be deducted if calculations and formulas are not included. Late problem sets will not be accepted. Planned absences are handled by doing problem sets early. In extenuating circumstances, appropriate original documentation must be submitted to the instructor. The discretion of the instructor is the sole determinant of acceptable extenuating circumstances.

Examinations
Three in-class examinations will be given (two in-class exams during the semester and one exam during the scheduled final examination period). The exam format will be multiple choice and each examination will be worth 16.7% of the final course grade. The questions will test recall and application of course content from the readings, class content, and the problem sets.
Examination procedure: During the exam students should NOT ask questions of the persons proctoring the examination. Problems or concerns with any of the examination questions should be documented in writing on the examination booklet. Dr. Montalto will read all comments before finalizing examination grades.
Make-up examinations: Prior approval to miss an examination will be given in the event of extenuating circumstances. In extenuating circumstances, appropriate original documentation must be submitted to the instructor. The discretion of the instructor is the sole determinant of acceptable extenuating circumstances. All make-up examinations will be timed, closed book, short answer/essay examinations. Make-up examinations will be scheduled at the convenience of the instructor.

POLICIES RELATED TO ALL COURSE WORK

Academic integrity: You are expected to complete all course work with fairness and integrity. You are encouraged to review “Ten Suggestions for Preserving Academic Integrity” http://oaa.osu.edu/coamtensuggestions.html. In particular, avoid suspicious behavior, do not fabricate information, do your own work, protect your work and the work of others, and read the course syllabus. If you have any questions, please ask!

Extra credit: None is given.

Important dates: Due dates for all problem sets and dates for course exams are listed in the course syllabus and on the Carmen course website. Any necessary changes in due dates will be announced in class and each student is responsible for receiving such information. Late problem sets will not be accepted. Problem sets are due before 5:00
p.m. on the assigned due dates via the Carmen Dropbox.

**Grade posting and feedback on assignments:** All grades will be posted to the Carmen course website. Feedback on problem sets will be provided via the Comment function on the Carmen course website. Students wishing to review course examinations should schedule an appointment with Dr. Montalto.

**Questions about grades:** Students wishing to appeal the grading of any course work, including examinations, must make the appeal in writing to Dr. Montalto within seven calendar days after the grade is posted to the Carmen course website. The request must include a clear description of why the student believes the work was incorrectly graded.

**E-mailing the Instructor:** When sending e-mail to the course instructor, put “CSCFFS 4150” in the subject line.

**EXPECTATIONS FOR STUDENT CONDUCT AND PARTICIPATION**

- **Attendance**  Students are expected to attend class, to arrive on time, and to remain for the entire class period. While it may be tempting to miss this class when other commitments become pressing, a great deal of additional explanation and application will be missed. If a student misses a class, it is his/her responsibility to acquire any missed information, handouts, or announcements.

- **Class preparation**  Students are expected to complete all assigned reading prior to the date assigned and to be prepared to apply the statistical techniques obtained from the reading to problems during class.

- **CSCFFS 4150 Carmen course website** ([http://carmen.osu.edu](http://carmen.osu.edu)) Course information, including the course syllabus, assigned readings, problem sets, dropboxes for problem sets, and instructional power point slides are available on the Carmen course website. Any necessary announcements will be posted to the homepage on the Carmen course website. As a student enrolled in CSCFFS 4150 you are responsible for all course information posted on the Carmen course website.

- **Student grades/Carmen** Each student is responsible for reviewing her/his individual grades posted to the Carmen course website and for notifying the instructor of any errors or problems with this information before 5:00 p.m. on the last day of the semester.

**Academic Misconduct** The Ohio State University’s *Code of Student Conduct* (Section 3335-23-04) defines academic misconduct as: “Any activity that tends to compromise the academic integrity of the University, or subvert the educational process.” Examples of academic misconduct include (but are not limited to) plagiarism, collusion (unauthorized collaboration), copying the work of another student, and possession of unauthorized materials during an examination. Ignorance of the University’s *Code of Student Conduct* is never considered an “excuse” for academic misconduct, so I recommend that you review the *Code of Student Conduct* and, specifically, the sections dealing with academic misconduct. If I suspect that a student has committed academic misconduct in this course, I am obligated by University Rules to report my suspicions to the Committee on Academic Misconduct. If COAM determines that you have violated the University’s *Code of Student Conduct* (i.e., committed academic misconduct), the sanctions for the misconduct could include a failing grade in this course and suspension or dismissal from the University. For additional information, see the Code of Student Conduct ([http://studentlife.osu.edu/pdfs/csc.pdf](http://studentlife.osu.edu/pdfs/csc.pdf)).

**Course Accommodations** Any student who thinks s/he may need an accommodation based on the impact of a disability should contact the instructor privately to discuss specific needs. The Office of Disability Services is relied upon for assistance in verifying the need for accommodations and developing accommodation strategies. Please contact the Office for Disability Services at 614-292-3307 (V) or 614-292-0901 (TDD) in room 150 Pomerene Hall to coordinate reasonable accommodations ([http://www.ods.ohio-state.edu/](http://www.ods.ohio-state.edu/)).

**Grievances and Solving Problems** According to University Policies available from the Office of Student Life, if you have a problem with this class, “You should seek to resolve a grievance concerning a grade or academic practice by
speaking first with the instructor or professor, then, if necessary, with the department chairperson, college dean, and provost, in that order.” Specific procedures are outlined in Faculty Rule 3335-7-23, which states “Grievances against graduate, research, and teaching assistants should be submitted first to the supervising instructor, then to the chairperson of the assistant's department.”

Statement on Diversity The Department of Human Sciences affirms the importance and value of diversity in the student body. Our programs and curricula reflect our multicultural society and global economy and seek to provide opportunities for students to learn more about persons who are different from them. Discrimination against any individual based upon protected status, which is defined as age, color, disability, gender identity or expression, national origin, race, religion, sex, sexual orientation, or veteran status, is prohibited.

SCHEDULE FOR COURSE TOPICS, TEXTBOOK READINGS, AND PROBLEM SETS
- Reading is to be completed before the class period for which they are assigned; plan wisely to stay on schedule
- Problem sets must be submitted to the Carmen Dropbox before 5:00 p.m. on the due date

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Reading</th>
<th>Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 1</td>
<td>Course Introduction Excel Overview</td>
<td></td>
<td>Survey completed in class</td>
</tr>
<tr>
<td>Week 2</td>
<td>Data and Business Decisions</td>
<td>Ch 1</td>
<td>PS1 due date</td>
</tr>
<tr>
<td>Week 3</td>
<td>Descriptive Statistics and Data Analysis</td>
<td>Ch 2</td>
<td>PS2 due date</td>
</tr>
<tr>
<td>Week 4</td>
<td>Descriptive Statistics and Data Analysis</td>
<td>Ch 2</td>
<td>PS3 due date</td>
</tr>
<tr>
<td>Week 5</td>
<td>Probability Concepts and Distributions</td>
<td>Ch 3</td>
<td>PS4 due date</td>
</tr>
<tr>
<td>Week 6</td>
<td>Probability Concepts and Distributions</td>
<td>Ch 3</td>
<td>PS5 due date</td>
</tr>
<tr>
<td>Week 7</td>
<td>Examination 1 Sampling and Estimation</td>
<td>Ch 4</td>
<td>PS6 due date</td>
</tr>
<tr>
<td>Week 8</td>
<td>Sampling and Estimation</td>
<td>Ch 4</td>
<td>PS7 due date</td>
</tr>
<tr>
<td>Week 9</td>
<td>Sampling and Estimation</td>
<td>Ch 4</td>
<td>PS8 due date</td>
</tr>
<tr>
<td>Week 10</td>
<td>Hypothesis Testing and Statistical Inference</td>
<td>Ch 5</td>
<td>PS9 due date</td>
</tr>
<tr>
<td>Week 11</td>
<td>Hypothesis Testing and Statistical Inference</td>
<td>Ch 5</td>
<td>PS10 due date</td>
</tr>
<tr>
<td>---------</td>
<td>---------------------------------------------</td>
<td>------</td>
<td>--------------</td>
</tr>
<tr>
<td>Week 12</td>
<td>Examination 2 Hypothesis Testing: and Statistical Inference</td>
<td>Ch 5</td>
<td>PS11 due date</td>
</tr>
<tr>
<td>Week 13</td>
<td>Regression Analysis</td>
<td>Ch 6</td>
<td>PS12 due date</td>
</tr>
<tr>
<td>Week 14</td>
<td>Regression Analysis</td>
<td>Ch 6</td>
<td>PS13 due date Final PS due date</td>
</tr>
</tbody>
</table>

**Weekday, Month, Date, Final Examination, Time, Building and Room**
December 16, 2013

Dr. Janet Buckworth  
Associate Chair, Curriculum, Department of Human Sciences  
Associate Professor, Kinesiology  
College of Education and Human Ecology  
The Ohio State University  
PAES Building, A44  
305 West 17th Avenue  
Columbus, OH 43210-1224

Dear Dr. Buckworth:

I am writing to request your approval to discontinue the Consumer and Family Financial Services major and course offerings on the Lima campus effective May 31, 2014. This change has been approved by the Ohio State Lima interim Dean and Director, the Associate Dean, the Assistant Dean, the faculty Academic Planning Committee, and the interim program coordinator for CFFS on the Lima campus. This decision was made on August 12, 2013.

Justification:
New student enrollment in the Consumer and Family Financial Services major on our campus has been in a steady decline over the last 5 years, with recent course enrollments being at their lowest levels in several classes. During Spring 2013, CONSCI 2990 had 6 students, CSCFFS 4150 had 2, CSCFFS 4260 had 3, CSCFFS 4270 had 4, and CSCFFS 5130 had only 2 enrolled students. Graduate numbers for the program have fluctuated as well, dating back to 2008-2009 with 11 students and currently for 2013-2014 a best possible graduate scenario is 7 students.

Current Enrollment:
There are currently 18 students listed as Consumer and Family Financial Services majors on the Lima campus. Two of those students are graduating Autumn 2013, and 5 more intend to graduate upon completing classes in Spring 2014. The remaining students have significant required course work remaining to complete the program, and have not had a good track record of communicating plans with the Academic Advisor and have not responded to our communication efforts regarding the program changes on our campus.

Impact:
Discontinuing the Consumer and Family Financial Services major and course offerings on our campus will have very little impact on the Lima campus due to the program’s declining enrollments and graduation rates. With several other degree programs on our campus, including a general business major, and with the Consumer and Family Financial Services course offerings available to students on the Columbus campus, our students have other avenues to pursue successful degree completion at The Ohio State University.

Please let me know if you have any questions or need any additional information regarding this proposed program discontinuation.

Sincerely,

[Signature]

Allison B. Gilmore, PhD  
Associate Dean  
The Ohio State University at Lima
December 16, 2013

Allison B. Gilmore, PhD
Associate Dean
The Ohio State University at Lima
208 Public Service
4240 Campus Drive
Lima, OH 45804

Dear Dean Gilmore:

We support and agree with your request to discontinue the Consumer and Family Financial Services major and course offerings on the Lima campus effective May 31, 2014. I have consulted with the Human Sciences Interim Department Chair, Consumer Sciences faculty, and Undergraduate Studies Committee, and all are in concurrence.

Sincerely,

Janet Buckworth, PhD
Associate Chair, Curriculum
Department of Human Sciences
College of Education and Human Ecology
The Ohio State University