

OZARKA COLLEGE CURRICULUM PROPOSAL

Course Title	Business Statistics
CIP Code	
Contact Person(s)	Kathryn Langston
Effective date of proposal	Spring 2011
Proposal Summary	<i>(Provide a general description of the proposed curriculum change or development)</i> Develop Business Statistics 1 Course to fulfill requirements for ASB degree plan at Ozarka College.
Need for the proposal	<i>(Provide data on student interest, job availability, corporate demands, and employment projections. Focus on need in North Central Arkansas: is there sufficient demand, etc.)</i> This course is a required course for the ASB Degree plan. Associate Science in Business.
Curriculum outline	<i>(Include prerequisites, course description, syllabus, suggested textbook, etc.)</i> See Below
Faculty needed for proposal	Business Instructor
Description of resources	<i>(Present library resources including relevant holdings; current instructional facilities including classrooms, instructional equipment and technology, and laboratories, etc.)</i> This course will probably be taught online.
Costs associated with the activity	<i>(New administrative costs; cost, if any, of additional faculty; new library resources and cost; new facilities and costs; distance delivery costs, if applicable; and any other costs associated with the proposal. If no new costs, explain.)</i> Adjunct pay or overload pay or new instructor.
Source of funding (if needed)	

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Similar activities in colleges within a 50 mile range	Statewide.
APPROVAL	
Initial Committee	Date: _____ Chairperson Signature: _____
Faculty Council	Date: _____ Chairperson Signature: _____
Administrative Council	Date: _____ Chairperson Signature: _____
Board of Trustees (If required)	Date
SIGNED COPY SHOWING ALL REQUIRED APPROVALS MUST BE SENT BACK TO CURRICULUM COMMITTEE FOR FILING.	
ADHE Submission	Date:
ADHE Letter of Notification	Date:
AFTER ALL REQUIRED APPROVALS HAVE BEEN COMPLETED, PROPOSED ITEM MAY BE ADDED TO CATALOG.	
Assessment Methods	
Implementation Date	Date: <i>(Add to Curriculum Committee Calendar)</i>
Report back to Curriculum Committee	Date: <i>(Based on assessment measurements including course evaluation of instructions following the first offering of the curriculum.) (Add to Curriculum Committee Calendar)</i>
Recommended Revisions	Date:
<u>Curriculum Proposal Approval Process</u> <ol style="list-style-type: none"> 1. Proposal is initiated in the Curriculum Committee for approval. 2. Faculty Council 3. Administrative Council 4. Board of Trustees, if necessary 5. Internal Process Completed—signed form back to Curriculum Committee 6. **ADHE notification or Approval—Curriculum Committee sent copy. 7. **Program may be legitimately entered in Ozarka College Catalog 8. Follow up review prepared 1 semester after courses offered and reported back to Curriculum Committee to complete Assessment Loop on Courses Offered. 	

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Form Revised: Wednesday, April 28, 2010

ORIGINAL

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**Business Technology Division
OZARKA COLLEGE
BUS 2XXX Business Statistics 1
Course Syllabus**

INSTRUCTOR:
PHONE: (870) 368-7371 (or Toll free 800-821-4335)
OZARKA'S FAX: (870) 368-4733
E-MAIL:
WEB PAGE:
OFFICE HOURS:

I. Prerequisites: **MATH 1023 (College Algebra).
Microcomputer Applications**

II. Course Description:
Statistical methods used in studying business and economic data, averages and dispersions, probability, sampling, statistical inference, estimation, tests of hypotheses, index numbers, linear regression and correlation. Prerequisite, MATH 1023 (College Algebra) and (Microcomputer Applications).

III. Rationale

IV. Outcomes/Learning Objectives

Objectives are: (1) To gain an understanding of descriptive statistics, probability, sampling, interval estimation, hypothesis testing, and linear regression; and (2) to perform applications of statistical methods to business problems using the spreadsheet software *Excel*.

V. Text and Required Materials

**Anderson, David, Sweeny, Dennis and Thomas Williams.
Essentials of Modern Business Statistics, 5th edition. Mason, OH:
Thomson South-Western Publishing,**

VI. Instructional Methods:

VII. Evaluation Procedures

Your grade will be determined on the basis of your performance on four (4) quizzes, three (3) examinations, and eight (8) Aplia assignments. The exams and homework assignments have the

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following percentage values:

Item	Percent
Aplia	25
Exam 1	15
Exam 2	20
Exam 3	15
Final	25
Exam	
Total	100

VIII. Grade Scale

90-100 = A Excellent
80-89 = B Above Average
70-79 = C Average
60-69 = D Conditional
Below 60 = F Failing
I = Incomplete
W = Withdrew from Course.

IX. Academic Integrity

Academic Honesty is expected of all students. Dishonesty includes claiming credit for work others completed for you, lying, plagiarism, and copying off other students' assignments. All assignments and all tests are to be completely your own work. Even one incidence of violating academic standards of honesty may result in expulsion. Plagiarism is a very serious offense and including copying from other students, purchasing completed assignments, copying from textbooks or other sources, claiming as your work the ideas belonging to someone else, and not giving credit to a source when quoting directly from that source.

X. Make Up Policy

XI. Attendance

Students are expected to attend all scheduled meetings of class. After the student has missed the equivalent of two weeks of classes (6 in MWF classes, 4 in TTH classes, 3 summer classes, or 2 night classes) the instructor may assign a grade of "F" for the course.

XII. Disclosure

Disruptive or non-professional behavior, including lack of participation in class may result in reduction of final grade and up to expulsion from the class.

Flexibility rights are reserved by the instructor to make modifications and changes to this course at any time at his/her discretion due to differing makeup of each class, variances in levels of scholarship and because of various interests in the direction and pursuit of scholarship and academic excellence.

XIII. Special needs

Situations covered by the American's with Disabilities Act should be discussed with the instructor as soon as possible. Any student with special needs that may require any adaptation or modification of classroom, lab, or clinical work is responsible for informing the faculty of those needs and possible modifications/adaptations.

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Schedule of Lecture Topics, Reading Assignments, and Exams

Date(s)	Topic(s)	Reading Assignment
Aug 24-28	Statistical applications in business; Data; Statistical inference	Ch. 1
Aug 31- Sept 4	Summarizing qualitative and quantitative data The stem and leaf display; Cross-tabulations and scatter diagrams	Ch. 2
Sept 11- 13	Measures of location and variability; Measures of relative location and detecting outliers	Ch. 3, pp. 80-103
Sept 14- 18	Exploratory data analysis; Measures of association between variables	Ch. 3, pp. 104-134
Sept 21	EXAM 1	
Sept 23- 25	Experiments, counting rules, and assigning probabilities	Ch. 4, pp. 140-151
Sept 28- 30	Events and their probabilities; conditional probability	Ch. 4, pp. 151-170
Oct 2-5	Random variables; Discrete probability distributions; Expected value and variance	Ch. 5, pp. 185-198
Oct 7-9	Binomial, Poisson, Hypergeometric distributions	Ch. 5, pp. 198-223
Oct 12-14	The Normal probability distribution; The Standard Normal distribution	Ch. 6, pp. 224-237
Oct 16-19	Computing probabilities; The Exponential distribution	Ch. 6, pp. 237-255
Oct 21	Exam 2	
Oct 23-28	Simple random sampling; point estimation; Sampling distributions; Sampling methods	Ch. 7
Oct 30- Nov 2	Interval estimation of a population mean; Determining sample size	Ch. 8
Nov 4-6	Null and alternative hypotheses; Type I and II errors; The one-tailed test	Ch. 9, pp. 333-345
Nov 9-11	The two-tailed test; Tests about a population proportion	Ch. 9, pp. 345-376
Nov 13	Exam 3	
Nov 16	Comparisons involving means means of 2 populations	Ch. 10, pp. 378-400
Nov 18-20	Inferences about differences between 2 population proportions	Ch. 11, pp. 431-445
Nov 23-27	<i>Fall Break/Thanksgiving</i>	
Nov 30- Dec 5	Simple linear regression; Least squares method; the Coefficient of determination (R^2)	Ch. 12, pp. 465-487
Dec 9	Final Exam ¹	

¹ The Final Exam will be administered online using the Blackboard 8 course management system.