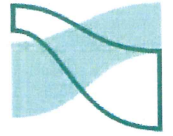


Alabama Transfers
COURSE PROPOSAL FORM

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Alabama
Transfers

SECTION 1 - To be completed by the institution submitting course for approval

Name of institution University of South Alabama

Course prefix & number ST210 Course title Statistical Reasoning and Application

Semester credit hours 3 Does course have a laboratory? Yes No Lab contact hours _____

In what general academic area is this course being offered at your institution? (Select one of the following)

- Written Composition Humanities & Fine Arts Math & Science Social Science Other Area _____

Check all that apply:

Course description (including prerequisites) as it appears in official catalog.

- Initial submission
 Re-submission
 Course title/number change
 Course content change

An introduction to modern statistics designed to provide the student with a solid foundation in statistical concepts, reasoning and applications. Emphasis given to problem identification, methodology selection and interpretation of results. Analysis of data accomplished

NOTE: YOU MUST ALSO ATTACH OR PROVIDE A HARD COPY OF A "REPRESENTATIVE COURSE SYLLABUS TO THIS FORM.

Contact information of person submitting this proposal (name position, mailing address, telephone number and email address required)

Dr. Madhuri Mulekar, Chair, Department of Mathematics and Statistics, University of South Alabama,
411 University Blvd North, Mobile, AL 36688-0002

Signature of person submitting this proposal: Cornelius Pillen Digitally signed by Cornelius Pillen
Date: 2022.12.01 11:12:59 -06'00' Date 12/01/2022

SECTION 2 - To be completed by the AGSC/STARS Office and/or Area Academic Committee Chair

Reviewed and voted on by the following committee: AREA I&II AREA III AREA IV

Committee recommendation: Recommended for approval Not Recommended for approval

Selected area of approval:

If NOT recommended, please give explanation:

- Area I – Written Composition
 Area II – Humanities & Fine Arts
 Area III – Math & Science
 Area IV – History & Social Science

Signature of Committee Chair (or Executive Director): _____ Date _____

SECTION 3 - To be completed by the AGSC Chair or Executive Director

AGSC APPROVAL:

- Approved
 Not Approved
 Tabled -- If tabled provide reasoning: _____

AGSC APPROVAL STAMP

AGSC Chair: _____ Date _____

For more information visit... www.alabamatransfers.com

AFTER SECTION 1 (ABOVE) IS COMPLETE,
MAIL FORM AND COURSE SYLLABUS TO:



ALABAMA TRANSFERS
1101 SOUTH BRUNDIDGE ST.
ELC BUILDING – SUITE 107F
TROY, AL 36081

THE ALABAMA TRANSFERS OFFICE STAFF WILL
SEND OUT THE PROPOSAL TO THE
APPROPRIATE COMMITTEE AND, IF
RECOMMENDED FOR APPROVAL, WILL THEN
BRING THE COURSE BEFORE THE AGSC FOR A
FINAL VOTE.

Stat 210 syllabus

Statistical Reasoning and Applications

Course Description: An introduction to modern statistics designed to provide the student with a solid foundation in statistical concepts, reasoning and applications. Emphasis given to problem identification, methodology selection and interpretation of results. Analysis of data accomplished by extensive use of statistical computer software, thereby minimizing manual computation. Coverage includes descriptive statistics, probability models, estimation, and hypothesis testing. High School level algebra is recommended. Computer Lab fee. NOTE: ST 210 is intended for students in all disciplines except Engineering and Computer Science. Credit for both ST 210 and ST 315 not allowed. May be offered for Honors Credit.

Prerequisites: High School level algebra or equivalent

Textbook: Interactive Statistics: Informed Decisions Using Data, by Michael Sullivan, III and George Woodbury, First Edition, Pearson. There is no physical copy of this text. It will only be available as an eText in MyLabsPlus (<http://usouthal.mylabsplus.com>)

Coverage: Chapter 1 (1.1-1.3, 1.5, 1.6), Chapter 2 (2.1, 2.2, 2.4), Chapter 3 (3.1, 3.2, 3.4, 3.5), Chapter 4 (4.1, 4.2), Chapter 5 (5.1-5.4), Chapter 6 (6.1, 6.2), Chapter 7 (7.1-7.3), Chapter 8 (8.1, 8.2), Chapter 9 (9.1-9.3), Chapter 10 (10.1-10.4), Chapter 11 (11.1-11.4)

Learning outcomes: The emphasis of this course is to understand statistical terminology, procedures, and interpretation of results. Skill with formulas, graphs, tables, interpretation of numeric results, and use of software are all needed for success in this course. Upon the successful completion of the course a student will:

- Organize, display, and summarize data.
- Understand probability distributions and applications.
- Understand sampling distributions and applications.
- Understand inferential statistics including confidence intervals and hypothesis testing.
- Evaluate and explain the results of quantitative analysis of data.
- Evaluate important assumptions in estimation, modeling, and data analysis.