Academic Policies and Curriculum Changes Form—East Georgia State College
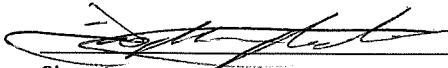## Signature Page

NAME OF PROPOSAL:___Name Change + Course Number Change for MATH 1121___

In order to track the location of curriculum changes, this form will be signed at every point in the approval process. Copies of appropriate documentation should be attached to the form at each step and should be kept at each level in order to determine where changes are made in the proposal. EFFECTIVE DATE OF CHANGE___Spring 2019___

☐ Check if change of curriculum will have to be approved by the USG General Education Council.

Initiated and Submitted By:

_____   ___10/2/2018___
Signature   Date

Division Chair Approval:

_____   _____
Signature   Date

Academic Policies & Curriculum Committee Action: Approved ___ Denied ___ Returned ___ Tabled ___

_____   _____
Signature   Date
Comments:_____

_____

Faculty Senate Action: Approved ___ Denied ___ Returned ___ Tabled ___

_____   _____
Signature   Date
Comments:_____

_____

President's (or designee's) Action: Approved ___ Denied ___ Returned ___ Tabled ___

_____   _____
Signature   Date
Comments: _____

_____

Distribution By:

_____   _____
Signature   Date

Distribution To:
Faculty Senate--President
Academic Policies & Curriculum Committee--Chair_____   _____

_____   _____

_____   _____

APPLICATION FOR PROPOSED NEW COURSE

Submitted by: _____ Date: _____

Full Title of Proposed Course: _____

Abbreviated Course title if applicable (cannot exceed 30 characters including spaces Do not use the '&' or '/' symbols when creating titles, hyphens are OK): _____

Course will be added to the EGC Course Schedule effective (Term/Year): _____

Suggested Course Number: _____ Course Level: _____ Area(s) For Course Use: _____

Hours Per Week Lecture: _____ Hours Per Week Laboratory: _____ Total Credit Hours: _____

Prerequisites: _____ Estimated Enrollment (Headcount) Per Term Offered: _____

Available Texts:

Approximate Cost of Text: _____

Divisions Chairman's Signature: _____

JUSTIFICATION FOR THE NEED FOR THE COURSE: (narrative)

COURSE DESCRIPTION:

ESTIMATED BUDGET TO SUPPORT THIS COURSE:

  A) OPERATING COSTS: _____
  B) CAPTIAL OUTLAY: _____
  C) ADDITIONAL LIBRARY RESOURCES:

INSTITUTIONS IN THE UNIVERSITY SYSTEM OFFERING SIMILAR COURSES (include course titles and numbers)

COURSE SYLLABUS ATTACHED: (a reasonably complete outline of the main points of the course)

MAJOR TOPICS TO BE COVERED (BY WEEKS)

OBJECTIVE OF THE COURSE:

Will the course replace another, or is this an additional course?

What effect will this course have on the enrollment in other courses?

INSTITUTIONAL RESOURCES WHICH MAKE THE OFFERING DESIRABLE (including qualification of available instructors):

EAST GEORGIA STATE COLLEGE
A Unit of the University System of Georgia
131 College Circle
Swainsboro, Georgia 30401-2699
478-289-2000

Spring 2019
Math 1401 – Elementary Statistics

I. Course Description:
    MATH 1401 – Elementary Statistics
    This is a non-calculus based introduction to statistics. Course content includes descriptive statistics, probability theory, confidence intervals, hypothesis testing, and other selected statistical topics.

II. Prerequisite:

    C or higher in an Area A mathematics course

III. Textbook:

    Beginning Statistics, 2nd Edition by Warren, Denley and Atchley – Hawkes Learning Systems

    ISBN-13: 9781932628685 (paperback bundled with access code)

    The textbook is *optional*. The Hawkes Learning Systems software is *required* to do the homework. If you are using the installed version, the CourseID is EastGeorgiaSTAT.

    You may purchase a new Hawkes access code at the EGSC bookstore or online from Hawkes. You may sign up for temporary access from Hawkes. Please note that once the temporary access ends, you will not be able to complete your homework assignments until you purchase an access code!

IV. Course Learning Outcomes:

    These outcomes are linked to General Education Learning Outcomes 2 and 3 listed in Section XVIII. of this syllabus.

    1. Students will be able to describe data graphically and numerically.
    2. Students will be able to apply fundamental principles of probability and probability distributions.
    3. Students will be able to construct and interpret confidence intervals for populations.
    4. Students will be able to perform fundamental hypothesis testing techniques.
    5. Students will be able to create, analyze and interpret models using regression techniques.
    6. Students will be able to analyze sample data and draw statistical inferences about populations under study.

V. Evaluation:

    Students will be evaluated through four announced in-class tests, graded homework in Hawkes Learning Systems and a comprehensive final examination.

VI. Grading: Homework: 19%, Attendance: 10%; Tests: 51%; Final Exam: 20%

VII. Attendance Policy:

Each student is expected to attend each class period. More than three absences may adversely affect your grade. It is your responsibility to inform your instructor of the reasons for your absence, and your instructor expects you to do so. The instructor has the right to determine whether an absence is excused or unexcused. You are responsible for all missed assignments and announcements. You must inform the instructor ahead of time if there is an extraordinary circumstance that would cause you to miss a quiz, test, or assignment. The student is responsible for academic consequences of all absences.

VIII. Make-up Work Policy:

You are expected to be present each day, including days of the announced in-class tests. Make-up tests are not given (see Section XVII i. in this syllabus for the lowest in-class test grade policy). Due dates in Hawkes Learning Systems for homework will not be extended unless there is an extenuating circumstance and proper written documentation can be provided. If there is an extenuating circumstance, such as an accident or medical situation, you should notify the instructor as soon as possible. The make-up work will be at the sole discretion of the instructor. The instructor reserves the right to determine if a make-up test will be given as well as the time, place, format, and material to be covered on the make-up test. If a make-up test is given, the test must be taken before the next scheduled class meeting, unless the instructor approves otherwise. Proper written documentation is *required* for the instructor to make a decision.

IX. Plagiarism and Academic Dishonesty:

Help, except by the instructor, on any graded work is academic dishonesty and will result in failure in the course. The Dean of the School of Mathematics and Science will be notified. The Director of Student Conduct will also be notified. More information can be found in the EGSC Student Handbook. Please read the Academic Honesty Policy.

X. ADA Statement:

In compliance with the Americans with Disabilities Act (ADA), East Georgia State College will honor requests for reasonable accommodations made by individuals with disabilities. Students must self-disclose their disability to the College and the Counselor/Disability Service Provider before academic accommodations can be implemented.

XI. Course Withdrawal Policy Statement:

Students are responsible for their own academic progress. Decisions regarding withdrawal from courses should only be made after consultation with an academic advisor. Before withdrawing from a course, students must meet with a Financial Aid representative to discuss their personal financial aid situation. More information regarding withdrawal from courses can be found in the EGSC Catalog.

XII. Campus Emergency Policy:

   a In the event the fire alarm is sounded, everyone must evacuate the building at once

and in a calm and orderly fashion, using the nearest exit. In the event of a severe weather warning everyone must proceed immediately to the nearest designated shelter area which are marked by a small tornado symbol. All severe weather shelter locations are posted on the EGSC website. Each student should, on the first day of class, determine the location of the nearest exit and the nearest designated shelter area for each of his or her classrooms. If you have difficulties locating either, ask your instructor to assist you.

b. The ConnectED system is a communication service that enables East Georgia State College administrators and security personnel to quickly contact all East Georgia State College students, faculty and staff with personalized voice and text messages that contain emergency-related campus information (e.g., campus closing, campus threat, health scare, etc.) With ConnectED, East Georgia State College students can be reached and provided with vital instructions anywhere, anytime, through their cell phones, home phones, e-mail, TTY/TDD receiving devices, or other text-receiving devices.

c. EGSC Statesboro students should make themselves familiar with Georgia Southern University's Emergency Response Plan. In the event of an emergency, EGSC Statesboro students should follow the instructions of EGSC Statesboro faculty and staff members and GSU campus officials.

d. EGSC Augusta students should make themselves familiar with Augusta University's Emergency Response Plan. In the event of an emergency, EGSC Augusta students should follow the instructions of EGSC Augusta faculty and staff members and AU campus officials.

XIII.   Additional Course Requirements:

The TI 83/83 Plus or TI 84/84 Plus graphing calculator is required.

XIV.   Weekly Course Schedule: Attached Below

XV.   Additional Policies:

a. Policy regarding taping of classes:
Students who would like to take a photo during class or audio or video tape a class must receive permission from the instructor. You may be referred to the Student Conduct Office for any violation of Section XVII a. of the course syllabus.

b. Respect
Please conduct yourselves in a manner that reflects positively on your upbringing. Some examples of behavior that should not be engaged in during class include doing work for other classes, reading newspapers, sleeping, holding private conversations, or any other behavior which distracts the class. Cell phones should be turned off or placed on silent before class begins, and they should not be used during class time, unless permitted by the instructor.

XVI.   Campus Carry:

Please review specific Campus Carry information on the College's website to determine the impact

this new legislation may have on you, the student. Violation of the Campus Carry law is also a violation of the EGSC Student Code of Conduct.

<p style="text-align: center;">*Math 1121 Introduction to Statistics Weekly Schedule*</p>

Week 1 (Aug 13 – Aug 17)

- Introduction to the course; Syllabus; Pre-Test
- 1.1   Getting Started
- 1.2   Data Classification
- 1.3   The Process of a Statistical Study
- 1.4   How to Critique a Published Study

Week 2 (Aug 20 – Aug 24)

- 2.1   Frequency Distributions
- 2.2   Graphical Displays of Data
- 2.3   Analyzing Graphs

Week 3 (Aug 27 – Aug 31)

- 3.1   Measures of Center
- 3.2   Measures of Dispersion
- 3.3   Measures of Relative Position

Week 4 (Sep 03 – Sep 07)

- Test 1

Week 5 (Sep 10 – Sep 14)

- 4.1   Introduction to Probability
- 4.2   Addition Rules for Probability
- 4.3   Multiplication Rules for Probability

Week 6 (Sep 17 – Sep 21)

- 4.4   Combinations and Permutations
- 4.5   Combining Probability and Counting Techniques
- 5.1   Discrete Random Variables
- 5.2   Binomial Distribution

Week 7 (Sep 24 – Sep 28)

- 5.3   Poisson Distribution
- 5.4   Hypergeometric Distribution
- Test 2

Week 8 (Oct 01 – Oct 05)*

- 6.1   Introduction to the Normal Distribution
- 6.2   Finding Area under a Normal Distribution
- 6.3   Finding Probability Using a Normal Distribution
- 6.4   Finding Values of a Normally Distributed Random Variable

Week 9 (Oct 08 – Oct 12)

- 7.1   Introduction to the Central Limit Theorem
- 7.2   Central Limit Theorem with Means
- 7.3   Central Limit Theorem with Proportions

Week 10 (Oct 15 – Oct 19)

- Test 3
- 8.1   Estimating Population Means with Sigma Known

Week 11 (Oct 22 – Oct 26)

- 8.2   Student's t-Distribution
- 8.3   Estimating Population Means with Sigma Unknown
- 8.4   Estimating Population Proportions

Week 12 (Oct 29 – Nov 02)

- 12.1 Scatter Plots and Correlation
- 12.2 Linear Regression

Week 13 (Nov 05 – Nov 09)

- Test 4
- 10.1 Fundamentals of Hypothesis Testing
- 10.2 Hypothesis Testing for Population Means with Sigma Known

Week 14 (Nov 12 – Nov 16)

- 10.3 Hypothesis Testing for Population Means with Sigma Unknown
- 10.4 Hypothesis Testing for Population Proportions

Week 15 (Nov 26 – Nov 30)   (If Time Allows)
- 9.1   Comparing Two Population Means with Sigma Known
- 9.2   Comparing Two Population Means with Sigma Unknown
- 9.3   Comparing Two Population Means with Sigma Unknown and Dependent Samples
- 9.4   Comparing Two Population Proportions

- 11.1 Hypothesis Testing: Two Population Means with Sigma Known
- 11.2 Hypothesis Testing: Two Population Means with Sigma Unknown
- 11.3 Hypothesis Testing: Two Population Means with Sigma Unknown and Dependent Samples
- 11.4 Hypothesis Testing: Two Population Proportions

Final Exams Week (Dec 03 – Dec 06)

- Comprehensive Final Exam – Time to be Announced

**This schedule is subject to change at any time by the instructor Holidays
*Monday, September 3rd
*Monday, November 19th – Friday, November 23rd