



EDUR 8131 Educational Statistics I
Spring 2026
Bryan W. Griffin

Office Information

Contact Hours

Varies for on-line courses, therefore it is best to contact me electronically to arrange an appointment.

E-Mail

Use Folio mail to contact me. If Folio is not working, my regular e-mail address is bwgriffin@GeorgiaSouthern.edu, but please use Folio for course-related communications.

Mail

Department of Curriculum, Foundations, and Reading
P.O. Box 8144
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Catalogue Description of EDUR 8131

Topics covered in this course include central tendency, variability, distributions, correlation, significance testing, t-tests, linear regression and chi-square analysis. Emphasis is placed on application of statistics in educational research situations. Prerequisite: EDUR 7130 or equivalent or permission of instructor.

Course Material

Supplemental Text

Moore, D., McCabe, G., & Craig, B.A. (2006, 2009, 2012, 2015). Introduction to the practice of statistics (5th, 6th, 7th ed. or 8th acceptable). New York: Freeman.

There is little difference among the 5th, 6th, 7th and 8th editions, so select whichever edition you find as the best bargain. Note that 5th through 7th editions may be found on-line for less than \$10, maybe even near \$0. Try searching online by title, or for ISBN 0716764008 on google.com shopping, www.amazon.com, or www.alibris.com, for example.

Much of the content taught in this course can be found on the course web site, linked below.

Course Web Site

The course web site contains detailed topic notes, activities, supplemental reading, video and static tutorials, example statistical presentations, and course announcements. The site may be found at the following address (select the relevant semester link):

<http://www.bwgriffin.com/gsu/courses/edur8131>

Software

Two options, SPSS (rent for about \$45) or JASP (free). SPSS has been used at Georgia Southern for decades and is the version I use in instructional videos. JASP is relatively new, and I have recently added supplemental videos showing how to use it in this course. Select whichever option seems best for you.

(a) SPSS Version 10.0 or higher

The latest version IBM/SPSS Statistics Base for Windows can be rented for 6 months for about \$35 from this site (cost is higher for MAC version).

<http://www.onthehub.com/spss>

Other sources to rent SPSS may be found linked below.

<https://www.ibm.com/products/spss-statistics-gradpack>

Many students who purchase MAC versions of SPSS have complained of installation and run issues. I recommend buying only the Windows version and using a Windows computer for data analysis.

Buy the version highlighted in the screen capture below.

The screenshot shows the OnTheHub website interface. At the top, there is a navigation bar with links for SHOP, STUDENTS, FACULTY, VENDORS, and HELP. The main content area displays the product 'IBM® SPSS® Statistics 28 GradPacks'. The price is prominently shown as \$37.90, with a red badge indicating a savings of \$1,172.11 from the original price of \$1,210.00. The product is categorized as 'Available For: Students'. A disclaimer states: 'Disclaimer: It is possible that, at checkout, one or more of the prices offered for customer groups will not be available to you, based on your demonstrated eligibility.' The product type is specified as 'IBM® SPSS® Statistics Base GradPack 28 for Windows and Mac (6-Months Rental) - Download(\$3...'. At the bottom of the product listing, there are two buttons: 'Add to Cart' and 'Request a Bulk Order'. Below the main product image, there are two smaller thumbnail images of the product packaging.

(b) JASP

JASP can be downloaded from this site.

<https://jasp-stats.org>

Versions are available for Windows, MAC, Linux, and browser online.

If you experience difficulties with installation, I cannot help. You may be able to identify solutions via online searches or JASP support page.

Course Content and Objectives

Content Covered (see Course Index and Course Calendar on the course web site for assigned readings, supplemental readings, and date topics are covered: <http://www.bwgriffin.com/gsu/courses/edur8131>)

1. Measurement (scales, variables)
2. Hypotheses: Written & Symbolic
3. Descriptive Statistics: Central Tendency & Variability
4. Displaying Data
5. Normal Curve
6. Percentile Ranks & Standard Scores
7. Logic of Statistical Inference & Hypothesis Testing
8. t-test: One Sample, Independent Samples, Correlated Samples
9. Pearson's Correlation
10. Chi-square: Goodness of fit, Test of Association
11. Regression: Simple and Multiple with Quantitative Predictors
12. One-way ANOVA & Multiple Comparisons

Following presentation of the above content, students should be able to analyze simple and some complex data using, as appropriate, the various statistical modeling procedures covered; perform these analyses in relevant statistical software (e.g., SPSS); read and interpret results based upon statistical modeling procedures examined; and produce APA (American Psychological Association) styled output for reports with corresponding written inference and interpretation.

Course Learning Outcomes (copied from COE EDUR 8131 course outline)

1. Learn basic statistical terms and concepts as commonly employed in educational settings.
2. Gain knowledge of basic statistical computations.
3. Interpret and report data analysis results.
4. Use computer statistical analysis programs.
5. Learn appropriate statistics for particular educational research situations.

Course Calendar

Given that the course calendar may change weekly subject to the pace of content coverage, the course calendar is not listed here, however a detailed and current calendar can be found at the Course Web Site, linked below:

<http://www.bwgriffin.com/gsu/courses/edur8131>

Content Delivery

This course is taught by a combination of recorded instructional video presentations, content notes, chat notes, and other on-line content. Optional live chats may be offered for those interested. A forum discussion board will be used to enable questions and answer sessions, and to post announcements.

Grading, Assessments, and Course Activities

There are five grading opportunities during the term based upon three tests. For Tests 1 and 2, there will be two versions, the original and an alternate. Everyone may complete both versions, or may complete only one version, the original or alternate. I recommend everyone complete the original test, then use the graded original and answer key as a study guide to complete the alternate version. This allows folks the possibility of increasing their test grade. The table below illustrates the grading opportunities.

Original Test	Alternate Test	Course Grade Determination
Test 1	Alternate Test 1	The higher score of Test 1 or Alt Test 1 will be used.
Test 2	Alternate Test 2	The higher score of Test 2 or Alt Test 2 will be used.
Test 3	Not available	The score of Test 3 will be used.

Each test will focus on conceptual components of statistical analysis, computer applications, choice of statistical procedures, and written results and interpretations. Tests will be posted early in the semester so plenty of time is available for completion.

Each test will be weighted equally at 1/3 of the final grade. Final course grades will be the mean score for Tests 1, 2, or 3 (or alternate test score if those are higher). Final grades will be assigned based on the following table.

90 and above	= A
80 to less than 89.999	= B
70 to less than 79.999	= C
60 to less than 69.999	= D
59.999 and below	= F

Should you not provide responses to a missed test before the end of the term, a score of 0 will be used for that test grade.

In addition to the graded tests, other non-graded activities will be available. These activities include analysis of data and reporting of statistical results, numerous computer replications of examples from assigned readings and course notes, and out-of-class exercises. These activities are designed to facilitate learning of course content.

University Attendance Policy

University policy requires students to attend the first class meeting of all classes in which they are registered. Attendance reporting is conducted through the Attendance Verification quiz or course instructor. Students who are verified as “Not Attending” a course will be dropped. This policy applies to all levels of courses and includes on campus, off campus, distance learning, two-way interactive video, and internet (online) classes. Students who have verifiable extenuating circumstances which prohibit them from attending the first day of classes must contact their instructor to avoid being dropped from the course. Students who have been recorded as “Not Attending” may not receive financial aid. Attendance will be officially verified before financial aid will be disbursed. Students are expected to attend all classes.

Attendance Policy for This Course

This is an online course with asynchronous instruction, therefore there are no required instructional meetings. There are, however, optional weekly instructional chats available for those interested in live question and answer sessions with the instructor.

Withdrawing from Class

The university sets a specific date in which you may withdraw from a course without an academic penalty. On rare occasions students wish to withdraw after the university deadline. This may be possible - contact the registrar’s office to learn which forms are needed to petition for a withdraw after the university deadline has passed.

University Academic Dishonesty Policy

Georgia Southern University is committed to academic excellence and expects academic honesty from all members of the University community. Academic honesty includes adherence to guidelines established by the institution. It prohibits representing the work of others to be one’s own (plagiarism); receiving unauthorized aid on an assignment (cheating); and using similar papers or other work product to fulfill the obligations of different classes without the instructor’s permission. (From the Georgia Southern University Academic Dishonesty Policy)

See Chapter XII of the Code of Student Conduct for more extensive definitions of cheating, classroom copyright infringement, facilitation, and plagiarism, as well as the institutional procedures for resolving violations of this policy.

How This Course Supports the College’s Conceptual Framework

The College of Education’s conceptual framework advances the theme of reflective educators for diverse learners. This includes, for example, commitments to technology and to knowledge and dispositions of the profession. In this course information will be learned that should make each student educator a more knowledgeable and critical consumer of educational research, thus enabling educators to evaluate better current and recommended practices when analyzed empirically. In addition, the statistical and data analytic skills presented in this course will able student educators to become producers of educational research and this will enable educators to employ empirical means to study their own classroom and school practices through action research.

ADA Accommodations

In compliance with the Americans with Disabilities Act (ADA), this course will honor requests for reasonable accommodations made by individuals with disabilities or demonstrating appropriate need for learning environment adjustments. Students must self-disclose their disability to the Student Accessibility Resource Center (SARC) before academic accommodations can be implemented. Students requesting alternative educational arrangements must submit a completed COVID-19 Alternative Educational Arrangement Request Form to [the SARC office](#). For additional information, please call the SARC office at (912) 478-1566 on the Statesboro campus, or at (912) 344-2572 on the Armstrong and Liberty campuses.

Artificial Intelligence Usage

GSU stance on use of AI in courses: “I expect you to generate your own work in this class. Any work submitted infers the assertion that you have generated and written the text, unless stated otherwise by proper quotation and attribution methods. Submitting content that was generated by someone else, or that was created or assisted by a computer application or tool, including artificial intelligence (AI) tools such as ChatGPT, is cheating and constitutes a violation of the Student Conduct Code. You may use simple word processing tools to update grammar in your work, but you may not use AI tools to draft your assignments, even if you edit, revise, or paraphrase it. There may be opportunities for you to use AI tools in this class, but I will clearly specify when and in what capacity if the opportunity presents itself.”