Note: I want to see each of you succeed in this course, so don’t hesitate to come to me if you have any questions or concerns.

**Required Text:**

Note: If you would prefer to rent your textbook, you may be able to get it at a discounted price at [www.chegg.com](http://www.chegg.com) or [http://www.amazon.com/b?ie=UTF8&node=5657188011](http://www.amazon.com/b?ie=UTF8&node=5657188011).

**Optional Supplemental Text:**

**Software:**
Students must have access to SPSS. Campus lab computers should have it installed, or you can purchase a copy through the WKU IT department ([http://www.wku.edu/it/sms/](http://www.wku.edu/it/sms/)).

**Course Description:**
Principles of experimental design including single factor and multiple factor between- and within-subjects designs, mixed designs, and statistical methods with an emphasis on analysis of variance.

**Course Objectives:**
Upon completion of this course, you will have a theoretical understanding of (i.e., be able to clearly explain) and know how to conduct and interpret findings from each of the following data analytic techniques:
- Descriptives analysis (e.g., central tendency, variability)
- Data screening (e.g., outlier analysis)
- t-tests
- One-way & factorial ANOVA (analysis of variance)
- Repeated measures analysis
- ANCOVA (analysis of covariance)
- Mixed designs

Before proceeding with the rules/grading for the course, let me warmly thank the many students who are conscientious and courteous while endeavoring to meet course obligations. Your efforts are noticed. Thank you.

**Grading Format:**
- Exam 1 = 15%
- Exam 2 = 15%
- Exam 3 = 15%
- Final Exam = 25%
- Homework Assignments = 15%
- Data Analysis Project = 15%

**Grading Scale:**
Your final grade in this course will be determined using the following grading scale:
- A = 89.5% - 100%
- B = 79.5% - 89.4%
- C = 69.5% - 79.4%
- D = 59.5% - 69.4%
- F = 0% - 59.4%

Note that I will not provide nor discuss grades over email. Rather, all grade concerns should be addressed in person during my office hours or by appointment.
Exams:
Exam content will be based on required class readings and lectures. Specifically, three noncumulative exams and a cumulative final exam will be given on the dates listed in the course schedule below. Each exam will be open-note, open-book and may consist of a variety of question formats, including multiple-choice, problem solving, short answer, fill-in-the-blank, and/or true-false questions.

You are expected to be on time for exams. If you are late to class on an exam day you will not be given additional time to complete the exam after the class period is over. Make-up exams will be given only when absences are due to a legitimate reason, and I receive the appropriate documentation within a week of the missed exam (see Attendance Policy). Note: All foreseeable absences must be communicated to me in advance. Penalties for cheating will be severe and consistent with University policies (see the Student Handbook).

Homework Assignments:
The purpose of the homework assignments is to give you a chance to apply your statistical knowledge to analyze data. As such, homework will be assigned throughout the semester. Student files for each homework assignment should be uploaded through Blackboard before the corresponding deadline. Deadlines will be noted in class. Homework assignments will be graded using the following scale:

• 4 = excellent (little to no errors)
• 3 = good (small number of errors)
• 2 = fair (moderate number of errors)
• 1 = poor (substantial number of errors)
• 0 = did not submit

Data Analysis Project:
Whereas the homework assignments will give students an opportunity to practice running various analyses after they are covered in class, in “real world” contexts students often have trouble knowing which analyses are the most appropriate for analyzing their data. As such, the purpose of the data analysis project is to provide students with a data set for which they will have to determine which analyses are the most appropriate in order to report their results. The requested files for the data analysis project are due on Tuesday, May 6th by 5:00pm.

Assignment Submission Policy:
Unless otherwise noted, all assignments must be turned in through Blackboard by the designated deadline. If the deadline is nearing and the Blackboard system is down or you experience any type of technical difficulty when submitting your work, your assignment should be emailed to amber.schroeder@wku.edu to prevent a loss of points.

Late Work Policy:
Any work submitted after the stated deadline will receive a 10-point per day point deduction. No late work will be accepted 48 hours after the deadline without the expressed consent of the instructor (which will only be provided in the case of extreme circumstances).

Attendance Policy:
You are expected to attend all class meetings. Classes will not consist entirely of lecture; therefore, missing a class will impair your ability to learn the material (and you’ll miss out on all of the fun!).

If you miss a class meeting during which an exam is administered, make-ups will only be allowed in the case that written documentation of a legitimate excuse (e.g., illness) is given prior to the absence or upon the day of your return. Excuses due to other reasons (e.g., sports, school clubs) must be provided and approved in writing prior to the planned date(s) of absence. If no notice has been provided within 48 hours after an exam, the grade for that exam will become a zero (pending extreme circumstances). Make-up exams must be taken within one week of the date of the original exam. Excused absences that can be foreseen (e.g., sports, school clubs) do not exempt one from paper/project deadlines. Rather, all work should be turned in in advance.

Being late for class is disruptive for both professors and students. Please do your best to arrive on time or early to each class.
Academic Integrity:
As members of the Western Kentucky University community, students are bound to abide by the Code of Conduct (see http://www.wku.edu/judicialaffairs/student-code-of-conduct.php), which prohibits the following types of behaviors:

“Dishonesty: Such as cheating, plagiarism, misrepresenting of oneself or an organization, knowingly furnishing false information to the University, or omitting relevant or necessary information to gain a benefit, to injure, or to defraud is prohibited.

(Lack of) Academic Integrity: The maintenance of academic integrity is of fundamental importance to the University. Thus it should be clearly understood that acts of plagiarism or any other form of cheating will not be tolerated and that anyone committing such acts risks punishment of a serious nature.

Academic Dishonesty: Students who commit any act of academic dishonesty may receive from the instructor a failing grade in that portion of the course work in which the act is detected or a failing grade in a course without possibility of withdrawal. The faculty member may also present the case to the Office of Judicial Affairs for disciplinary sanctions. A student who believes a faculty member has dealt unfairly with him/her in a course involving academic dishonesty may seek relief through the Student Complaint Procedure.

Plagiarism: To represent written work taken from another source as one’s own is plagiarism. Plagiarism is a serious offense. The academic work of a student must be his/her own. One must give any author credit for source material borrowed from him/her. To lift content directly from a source without giving credit is a flagrant act. To present a borrowed passage without reference to the source after having changed a few words is also plagiarism.

Cheating: No student shall receive or give assistance not authorized by the instructor in taking an examination or in the preparation of an essay, laboratory report, problem assignment or other project which is submitted for purposes of grade determination.

Other Types of Academic Dishonesty: Other types of academic offenses, such as the theft or sale of tests, electronic transmission of test, test sharing, etc. will be reported to the Office of Judicial Affairs for disciplinary action.” (http://wku.edu/judicialaffairs/process-for-academic-dishonesty.php)

All students should maintain appropriate standards of academic and professional behavior. A student who commits a single act of academic dishonesty in this course will receive a grade of “0” on the assignment or exam in question and will be turned in to the Office of Judicial Affairs. Any further incident will result in a failing grade for the entire course.

Students with Disabilities:
In compliance with university policy, students with disabilities who require accommodations (academic adjustments, and/or auxiliary aids or services) for this course must contact the Office for Student Disability Services in Downing University Center A-200. The phone number is 270-745-5004; TTY is 270-745-3030. Per university policy, please DO NOT request accommodations directly from the professor or instructor without a letter of accommodation from the OFSDS.

Electronic Devices:
Laptops are allowed for taking notes in class, but are not allowed for non-class related activities. If I find you using your laptop for disruptive activities during class (e.g., checking email, chatting, playing games), you will be asked to turn off/close your laptop. If the behavior persists, you will be asked to not bring your laptop to class in the future.

There will be no cell phone usage of any kind during class. (This includes texting.) If your cell phone rings during class, it will be subject to confiscation. Therefore, all cell phones must be turned off or placed on silent before class begins.

Late Instructor Policy:
If I haven’t shown up 15 minutes after the class start time, you may leave class with my apologies. However, in the case that I will be unable to attend class, I will make every effort to notify you in advance.
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<thead>
<tr>
<th>Date</th>
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<tr>
<td>January 28 – February 18</td>
<td>Central Tendency &amp; Variability</td>
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<td>Standardized Scores &amp; the Normal Distribution</td>
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<td>Data Screening &amp; Descriptives</td>
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<td>Null Hypothesis Testing &amp; Power</td>
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<td>February 20</td>
<td>Exam 1</td>
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<td>February 25 – March 25</td>
<td>Effect Sizes</td>
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<td>$t$- &amp; $F$-tests</td>
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<td>One-way ANOVA</td>
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<td>Post-hocs &amp; Planned Comparisons</td>
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<td>March 27</td>
<td>Exam 2</td>
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<td>April 1 – April 22</td>
<td>Factorial ANOVA</td>
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<td>Main Effects &amp; Interactions</td>
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<td>ANCOVA</td>
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<td>Dependent $t$-test</td>
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<td>Within-subjects ANOVA</td>
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<td>April 24</td>
<td>Exam 3</td>
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<td>April 29 – May 8</td>
<td>Mixed Designs</td>
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<td>May 12 (1-3pm)</td>
<td>Final Exam</td>
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*Note that all dates are approximate and may change based on speed of content coverage or other unforeseen reasons.
*I have made a best faith effort to make this syllabus as accurate as possible, but all information is subject to change.
*This syllabus was last updated on 1/16/14.