Instructor: Demetris Athienitis
Office: Griffin Floyd 116B
E-mail: athienis@ufl.edu

Teaching Assistant: Jerome Taylor
Office: See office hours in e-Learning under “Pages”
E-mail: jt34872@mfl.edu

Course Website: e-Learning
Course Notes: Written on board.

Course Communication:

• Piazza Q&A discussion forum. (Link available “Pages”)

• Office hours (posted under “Pages”).

• E-mail for questions regarding course policies. (Ensure that 4502 or 5507 is in the subject line. Failure to do so may result in a non-response.

All members of the class are expected to follow rules of common courtesy in all email messages, threaded discussion and chats. Please refer to expected class netiquette.

The instructor reserves the right to update any parts of this syllabus as necessary.
Students will promptly be notified of any changes.

Required Text(s): Nonparametric Statistical Methods, 3rd Edition (Companion R site)
Course Description: Introduction to nonparametric statistics, including one- and two-sample testing and estimation methods, one- and two-way layout models and correlation and regression models.

Prerequisite(s): STA 3024 or STA 3032 or STA 4210 or STA 4322.
Credit Hours: 3
Software: You will need a computer for the homework assignments and practice. There will not be any lessons on how to use software, but questions are welcomed especially in office hours. The main software used in class will be R. You can use other software if you wish as long as you yield similar results: Minitab is a user-friendly alternative, SPSS, SAS, JMP, Matlab etc. For more help visit http://www.stat.ufl.edu/~athienit/software.html

Purpose of Course: To comprehend the value of nonparametric methods which have wide applicability and in particular much more applicability than procedures that are developed based on normal/parametric assumptions.

Course Goals and Objectives:

1. Comprehend the difference between parametric and nonparametric methods
2. Learn how nonparametric methods provide exact. P-values for tests, exact, coverage probabilities for confidence intervals, exact, experiment-wise error rates for multiple comparison procedures, and exact, coverage probabilities for confidence bands.
3. Develop a facility for deciding which nonparametric techniques are applicable in various situations
4. Get a sense for the advantages of nonparametrics such as relative insensitivity to outlying observations
5. Become familiar with the use of the software R to apply various nonparametric methods to data sets.

Course Policies

Assignments

- Students are expected to work independently, unless otherwise specified in writing. Offering and accepting solutions from others is an act of plagiarism, which is a serious offense and all involved parties will be penalized according to the Academic Honesty Policy. Discussion amongst, students is encouraged, but. when in doubt., direct, your questions to the instructor or teaching assistant.

- No late assignments will be accepted under any circumstances.

- Students are expected to show and explain how the answers were obtained. When asked to submit, textbook problems/exercises, simply copying the solution manual without, performing, showing and explaining your work is not sufficient, for a grade and may be considered an act of plagiarism. (There are software to test, for plagiarism).

- All electronically submitted work must be in pdf format or a standard file format such as doc, jpeg, etc.
Homework/Quizzes

There will be homework assigned on a regular basis as suggested homework (not to be turned in) containing data analysis problems and/or book exercises. Suggested homework will be posted under “Assignments”. A timed quiz assignment (based on the suggested homework) will be administered either as

- In-class (closed notes).
- Online (Only 1 attempt. It is highly encouraged to use a reliable device with a reliable wired ethernet internet connection. As soon as work is submitted a grade of 0 will show up as a placeholder until the assignment is graded.)

but which format will not be announced prior. For the best preparation students are encouraged to complete the full suggested homework set by the deadline posted on the suggested homework, indicating when you should ready to take the quiz.

Solutions to suggested homework will not be posted, but solutions to the quizzes will be.

Exams

With every completion of 2 modules, exams will be administered that will comprise of multiple choice questions and possibly open-ended questions. Exams will emphasise more on conceptual questions while HW/Quizzes will be more computational (not always).

Important dates:

- Exam #1 ......................... September 28, 2017
- Exam #2 ......................... October 26, 2017
- Exam #3 ......................... December 12, at 08:30

Allowed material:

- Formula sheet (Students create own 1 page, double sided formula sheet that is submitted)
- Scientific/Graphing Calculator.

Grading

Change of grade: Grades will be changed only when an error has been made by the instructor.

Grade distribution:

Exams 1, 2 and 3 75% (15% lowest, 30% second best 30% highest)
Homework/Quizzes 25% (lowest score will be dropped)

Letter grade distribution:

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<td>87 to &lt; 91</td>
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Final grades shown on Canvas are not accurate because they do not account for the conditional weighing of exams and quizzes.

Final grade can be calculated with exams as a % (out of 100) and quizzes out of 10 points

\[ 0.15(\text{worst.}) + 0.30(\text{second best}) + 0.30(\text{best.}) + 0.25(100) \]

There will be no rounding up of scores. Students who actively participate in the discussion forum will be awarded extra credit (to the discretion of the instructor). To view the result of the letter grades to your GPA please visit http://www.registrar.ufl.edu/catalog/OI1/policies/regulationgrades.html

Make-up policy: Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at: https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx

(Additional) Make-up policy requirements:

- Every effort should be made to complete the assignment/exam during the open period. Only extreme situations will warrant a makeup. Contact the instructor prior to the exam - as soon as you realize you will be unable to take the assignment/exam at the scheduled time. Each case will be reviewed individually. Valid and detailed documentation is a prerequisite for scheduling a makeup under such extenuating circumstances.

- If you have an emergency on the day of the assignment/exam, the instructor must be contacted by midnight of the day of the assignment/exam.

- Make-ups need to be scheduled within a week from the assignment deadline. Student is responsible for scheduling.

- Additional Note: Being on vacation or booking a trip prior to the completion of the semester is not a valid reason to request a makeup. Please reference the Academic Calendar

Incomplete: An incomplete grade may be assigned at the discretion of the instructor as an interim grade for a course in which the student has completed a major portion of the course with a passing grade, been unable to complete course requirements before the end of the term because of extenuating circumstances, and obtained agreement from the instructor and arranged for resolution of the incomplete grade in the next term. Instructors are not required to assign incomplete grades. For complete details please visit the registrar’s course policies.

Getting help

For issues with technical difficulties for e-learning in Canvas, please contact the UF Help desk at:

- https://iss.at.ufl.edu/help.shtml or http://helpdesk.ufl.edu/

- 352-392-4357 - select option 2

- e-mail at helpdeskSufl.edu.

Any requests for make-ups due to technical issues MUST be accompanied by the ticket number received from e-Learning when the problem is reported to them. The ticket number will document.
the time and date of the problem. You MUST contact your instructor within 24 hours of the technical difficulty if you wish to request a make-up.

**Complaints/Praises:** Should you have any complaints/praises with your experience in this course you can always address them to the instructor at athienit@ufl.edu, or you may contact the Department of Statistics to submit a complaint. You may submit anonymous e-mail.

For complaints that are not satisfactorily resolved at the department level or which seem to be broader than one department, students are encouraged to review the UF Complaints Policy.

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**UF Policies**

**Accommodating Students with Disabilities:** Students requesting accommodation for disabilities must first register with the Dean of Students Office. The Dean of Students will provide documentation to the students who must then provide this documentation to the instructor when requesting information. You must submit this documentation prior to submitting any assignments for which you are requesting accommodation.

**Academic Misconduct:** Students are held accountable to the UF Honor Code.

**Evaluations:** Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at [https://evaluations.ufl.edu](https://evaluations.ufl.edu). Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at [https://evaluations.ufl.edu/results/](https://evaluations.ufl.edu/results/).
## Tentative Course Outline

* Additional topics included

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Content</th>
<th>Textbook</th>
<th>HW/Quiz</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Introduction: Advantages of Nonparametric Methods</td>
<td>1.1-1.5</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>The Dichotomous Data Problem</td>
<td>2.1-2.3</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>The One-Sample Location Problem</td>
<td>3.1-3.8, 3.11</td>
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<tr>
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<td><strong>Exam 1</strong></td>
<td></td>
<td></td>
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<tr>
<td>4</td>
<td>The Two-Sample Location Problem</td>
<td>4.1-4.5</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>The Two-Sample Dispersion Problem and Other Two-Sample Problems</td>
<td>5.2-5.5</td>
<td>5</td>
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<td>6</td>
<td>The One-Way Layout</td>
<td>6.1-6.2, 6.4-6.5, 6.8-6.10</td>
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<tr>
<td>7</td>
<td>The Two-Way Layout</td>
<td>7.1-7.3, 7.5, 7.9, 7.16</td>
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<tr>
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<td><strong>Exam 2</strong></td>
<td></td>
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<tr>
<td>8</td>
<td>The Independence Problem</td>
<td>8.1-8.3, 8.7</td>
<td>8</td>
</tr>
<tr>
<td>9</td>
<td>Regression Problems</td>
<td>9.1-9.3, 9.6-9.8</td>
<td>9</td>
</tr>
<tr>
<td>10</td>
<td>Comparing Two Success Probabilities</td>
<td>10.1-10.5</td>
<td>10</td>
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<tr>
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<td><strong>Exam 3</strong></td>
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