MATH 512—PROBABILITY AND STATISTICS—SUMMER 2010 FULL TERM—WWW SECTION

INSTRUCTOR: Michael Gray, Ph.D.
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LINK TO BLACKBOARD: http://blackboard.nicholls.edu

OFFICE HOURS: MTWR 10:30-11:50. Your instructor will be available for consultation via phone or e-mail during these times, or by appointment. Your instructor will also check e-mail and Blackboard periodically throughout the day on every day Monday through Friday.

COURSE DESCRIPTION: Discrete and continuous probability distributions, measures of variability, estimation, hypothesis testing, prediction, introduction to stochastic modeling and operations research, simple and multiple linear regressions, measures of association and correlation, analysis of variance and its relationship regression analysis.

PREREQUISITES: Grade of C or better in MATH 360 and MATH 402.

REQUIRED MATERIALS:
- A graphical computing facility—graphics calculators such as TI-83, TI-84, TI-89, and TI-Inspire are good choices.
- Modern word processing software with equation capabilities. Microsoft Word documents are acceptable. Adobe PDF files are preferred.

STUDENT OUTCOME OBJECTIVES: Upon completion of this course, students will be able to:
- Solve problems in elementary probability, discrete probability distributions, continuous probability distributions, estimation, correlation, and regression;
- Communicate mathematical thinking coherently and clearly;
- Prove various theorems of mathematical statistics;
- Evaluate and analyze means and variances;
- Apply probability and statistics to various problems in the mathematical sciences.

COURSE CONTENT AND EVALUATION METHODS: The course will be conducted via the internet using Blackboard and email, and has zero on-campus meeting requirements. The URL for the university’s distance learning website is http://www.nicholls.edu/distance/. Frequently asked questions about internet courses can be viewed at http://www.nicholls.edu/distance/faqs/. A download for minimum computer requirements for taking a course on Blackboard can be found in the last question on the frequently asked questions site given above. A Blackboard tutorial can be viewed at http://www.nicholls.edu/distance/blackboard-tutorial/.

Grades are based on the average of 8 homework assignments. The standard grading scale applies. All graded materials must be typeset into a format readable by standard word processor software, such as Microsoft Word or Adobe Acrobat, and e-mailed to your instructor as an attachment. Lecture notes and homework assignments will be posted on Blackboard. Homework will be assigned and collected according to the following schedule:

<table>
<thead>
<tr>
<th>Item</th>
<th>Date Assigned</th>
<th>Due Date</th>
<th>Grade Scale</th>
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<tbody>
<tr>
<td>HW 1</td>
<td>Wednesday, June 2</td>
<td>Tuesday, June 8</td>
<td>A 90 - 100</td>
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<tr>
<td>HW 2</td>
<td>Wednesday, June 9</td>
<td>Tuesday, June 15</td>
<td>B 80 - 89</td>
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<tr>
<td>HW 3</td>
<td>Wednesday, June 16</td>
<td>Tuesday, June 22</td>
<td>C 70 - 79</td>
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<td>HW 4</td>
<td>Wednesday, June 23</td>
<td>Tuesday, June 29</td>
<td>D 60 - 69</td>
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<tr>
<td>HW 5</td>
<td>Wednesday, June 30</td>
<td>Tuesday, July 6</td>
<td>F below 60</td>
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<td>HW 6</td>
<td>Wednesday, July 7</td>
<td>Tuesday, July 13</td>
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<td>HW 7</td>
<td>Wednesday, July 14</td>
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<td>HW 8</td>
<td>Wednesday, July 21</td>
<td>Tuesday, July 27</td>
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All assignments are due by 11:59 p.m. (Nicholls State local time, Central Time Zone) on the specified date. Assignments turned in late will be docked 10 points per day for the first three days and 70 points on the fourth day, unless special arrangements are made in advance of the due date.

Students may discuss homework problems with other students and with their instructor, but each student is expected to turn in his or her own work. Plagiarism will not be tolerated.
MAKE-UP POLICY
Homework assignments cannot be made up, except in extreme circumstances at the instructor’s discretion.

AMERICANS WITH DISABILITIES ACT
If you have a documented disability that requires assistance, you will need to register with the Office of Disability Services for coordination of your academic accommodations. The Office of Disability Services is located in Peltier Hall, Room 100-A. The phone number is (985) 448-4430 (TDD 449-7002).

ACADEMIC HONESTY POLICY
Nicholls State expects all students to maintain absolute integrity and a high standard of individual honor in all academic work. Students caught cheating will be disciplined according to the process described in Section 1.9 of the Code of Student Conduct.

Section Five of the Code of Student Conduct: Academic Dishonesty and Disruptive Behavior has been revised and includes a requirement that faculty file a charge complaint statement with the dean whenever a student is confronted and/or disciplined for cheating. The Office of Academic Affairs will maintain these records and any student confronted and/or disciplined for multiple offenses (more than one) of academic dishonesty will be brought before the Academic Affairs Integrity Committee for further review and/or sanctions. Please read the Code of Student Conduct for further details regarding this policy.

ACADEMIC GRIEVANCES
The proper procedure for filing grade appeals or grievances related to academic matters is listed in Section 5 of the Code of Student Conduct and at the following link:

BEHAVIORAL POLICY
Students must behave in a professional manner at all times. Inappropriate behavior exhibited through any means (phone, email, message boards, etc.) will not be tolerated.

DROP DATE
The last day to drop a course with a “W” is Wednesday, July 7, 2010.

OTHER IMPORTANT 2010 SUMMER FULL TERM DATES
Thursday, June 3 Late registration and drop/add ends.
Monday, July 5 Independence Day Holiday—University Closed—Let Freedom Ring!
Monday, August 2 Final grades due at 9:00 a.m.

CONTINUED LEARNING FOLLOWING AN EXTREME EMERGENCY
To make continued learning possible following an extreme emergency, students are responsible for:
- reading regular emergency notifications on the NSU website;
- knowing how to use and access Blackboard;
- being familiar with emergency guidelines;
- evacuating textbooks and other course materials;
- knowing their Blackboard student login and password;
- contacting faculty regarding their intentions for completing the course.

Faculty are responsible for:
- their development in the use of the Blackboard;
- having a plan for continuing their courses using only Blackboard and email;
- continuing their course in whatever way suits the completion of the course best, and being creative in the continuation of these courses;
- making adjustments or compensations to a student’s progress in special programs with labs, clinical sequences or the like only in the immediate semester following the emergency.