STA 3032: Applied Statistics for Engineers and Scientists
Tu/Th 11:00AM — 12:15PM, Room: OSB 108

Instructor: Dr. Antonio Linero, OSB 201E.
Office Hours: 12:30PM — 2:00PM Tu/Th, or by appointment.
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Teaching Assistant: Roumen Varbanov, OSB 104F.
Office Hours: 2:00PM–4:00PM Tu, or by appointment.
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Prerequisites: Students should have a basic understanding of algebra, arithmetic, and calculus at the level of MAC2312 (Calculus 2).

Course Website: Course website is available through Blackboard: `campus.fsu.edu`.

Textbook: *Statistics for Engineers and Scientists*, either 3rd or 4th edition. This text will be used to supplement the lecture and provide practice problems.

Course Objectives: Students should be able to

- Describe basic statistical analysis methods and their assumptions.
- Conduct basic descriptive and inferential statistical procedures.
- Formulate scientific research questions and translate them into statistical questions.
- Interpret statistical results in the context of the subject matter.
- Understand the capabilities and limitations of statistics in answering scientific questions.

Homework: Homework will be posted on the Blackboard website in the Course Library, along with the readings of the textbook. Unless otherwise noted, homework will be collected each Thursday at the beginning of class and a random subset of the assigned problems will be graded. Students may work together to discuss homework, but each student must write up their own solution in their own words. Solutions copied verbatim from another students homework will constitute an honor code violation and will not receive credit.

Quizzes: Weekly quizzes will be administered each Thursday unless otherwise noted, and will cover material similar to the homework assigned each week. At the end of the semester, the lowest quiz grade will be dropped.

Exams: There will be three exams. You will be permitted to bring a single page formula sheet. The formula sheet **must be handwritten and easily readable to the naked eye**, and may

contain formulae, facts, definitions, and theorems, **but may not include any worked examples**. Students are also permitted the use of a scientific calculator. The material covered and general exam policies will be discussed in class. The **tentative** dates are

Exam 1 ..... Thursday, February 11th
Exam 2 ..... Tuesday, March 22nd
Exam 3 ..... 5:30–7:30pm Monday, April 25th

Grading: Your final grade will be calculate from a total of 1000 possible points as follows:

- 200 points for homework (25 points per assignment after dropping the lowest).
- 200 points for quizzes (25 points per quiz after dropping the lowest).
- 600 points for exams (200 points per exam).

Grade cutoffs will be established at the end of the course, but will not be stricter than the following cutoffs.

- ≥ 940: A;
- ≥ 900: A-;
- ≥ 870: B+;
- ≥ 830: B;
- ≥ 800: B-;
- ≥ 770: C+;
- ≥ 730: C;
- ≥ 700: C-;
- ≥ 670: D+;
- ≥ 630: D;
- ≥ 600: D-;
- < 600: F;

Attendance Policy: Attendance is required, but will not be graded. Excused absences include *documented* illness, deaths in the family, and other documented crises, call to active military duty or jury duty, religious holidays, and official University activities.

Make-ups may be given to students whose absence have either been OK'd by the instructor in advance, or be the result of unforeseeable circumstances; if the instructor determines that the student did not do their best to inform the instructor in advance of a missed assignment, the student will be assigned a 0% regardless of the merit of their absence. In either case, the student must provide documentation which demonstrates that the student was unable to attend class for a valid reason.

Students with Disabilities: Students with disabilities needing academic accommodations should (1) register with and provide documentation to the Student Disability Resource Center (SDRC); and (2) bring a letter to the instructor from the SDRC indicating your need for academic accommodations. This should be done as promptly as possible.

For more information about services available to FSU students with disabilities, contact the Student Disability Resource Center.

Academic Honesty: Violation of the academic honor system of the Florida State University will not be tolerated in this class.

> *The Academic Honor System of Florida State University is based on the premise that each student has the responsibility*
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> 1. *to uphold the highest standards of academic integrity in the student's own work;*
> 2. *to refuse to tolerate violations of academic integrity in the University community; and*
> 3. *to foster a high sense of integrity and social responsibility on the part of the University community.*