

ET-202
Probability and Statistics

ET-202 - 02 (3620)

Friday 2:00PM- 5:45PM

Room: ET-113

Instructor: William E. Lopez

William.Lopez@csulb.edu

Personal webpage: www.welopez.com

Mode of delivery: In person

Textbook: Elementary Statistics 10th Edition

Mario F. Triola

ISBN: 0-321-46092-8

Software: Excel

Grades are based on attendance, homework and tests as follows:

Attendance	33%
Homework	33%
Tests (2)	33%

pg. 147 prob. 5-31 odd skip 15, 23, 27
pg. 156 prob. 5-19 odd
pg. 165 prob. 5-19 odd
pg. 172 prob. 11-23 odd skip 19
pg. 186 prob. 5-35 odd skip 21, 23, 31, 33

Letter grades are as follows:

90-100%	A
80-89%	B
70-79%	C
60-69%	D
50-59%	F

Ch. 5 Probability Distribution

pg. 210 prob. 5-13 skip 9
pg. 212 prob. 21
pg. 221 prob. 5-33 odd skip 13, 25, 27
pg. 227 prob. 5-17 odd
pg. 234 prob. 5-13 odd

Homework assignments:

Ch. 1 Introduction to Statistics
(Read only, no homework assignments)

Ch. 2 Summarizing and Graphing Data
pg. 48 prob. 5-23 odd
pg. 55 prob. 5-15 odd
pg. 66 prob. 5-19 odd

Ch. 3 Statistics for Describing, Exploring and Comparing Data
pg. 87 prob. 5-19 odd
pg. 105 prob. 5-17 odd skip 7,13,15
pg. 108 prob. 29, 31,33,35
pg. 117 prob. 5-19 odd skip 13
pg. 126 prob. 1-5 odd

Ch. 4 Probability

Ch. 6 Normal Probability Distribution

pg. 257 prob. 9-39 odd, skip 35
pg. 266 prob. 5-21 odd
pg. 278 prob. 7, 11
pg. 287 prob. 5-13 odd, skip 11
pg. 299 prob. 5,7,9,17,21,23,25,27

Ch. 7 Estimates and Sample Sizes

pg. 333 prob. 5-33 odd (skip 31), 41,43
pg. 346 prob. 9-19 odd, 25,27,33,35
pg. 359 prob. 5-17 odd, 21,23,25
pg. 372 prob. 5-15 odd

Ch. 8 Hypothesis Testing

pg. 403 prob. 5-19 odd, 25-39 odd, skip 37
pg. 415 prob. 9-19 odd, skip 13
pg. 422 prob. 11-17 odd

ABET Student Outcomes

The course satisfies following [ABET](#) student outcomes:

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. an ability to communicate effectively with a range of audiences
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

Course Objectives:

This course is an introduction to classical statistics and probability but as applied to engineering and technical applications. ET-202 is the lecture portion and will focus on the theory of statistics and probability, while ET-202L is the lab portion and will employ software to solve practical applications of the theory. The course will employ readings from the textbook, tests and homework problems.

Course Structure and Delivery mode: The class is in person. Contact the instructor by e-mail or text. All class materials are contained in my personal webpage: www.welopez.com I will send e-mails with assignments and other information.

Office hours:

Fall Semester:

Monday	4:30-5:00 PM; 9:45-10:15 PM	Room ET-113
Tuesday	4:30-5:00 PM; 9:45-10:15 PM	Room ET-113
Wednesday	4:30-5:00 PM; 9:45-10:15 PM	Room ET-113
Friday	2:00-2:30 PM; 4:45-5:30 PM	Room ET-113

Spring Semester:

Monday	4:30-5:00 PM; 9:45-10:15 PM	Room ET-113
Tuesday	4:30-5:00 PM; 9:45-10:15 PM	Room ET-113
Wednesday	4:30-5:00 PM; 9:45-10:15 PM	Room ET-113
Friday	4:30-5:00 PM; 9:45-10:15 PM	Room ET-113

Plagiarism/Academic Integrity Policy

*There is **zero tolerance** for cheating, plagiarism, or any other act of violation of Academic Integrity policy. Work that you submit is assumed to be original unless your source material is documented appropriately, using proper citation. Using the ideas or words of another person, even a peer, or a web site, as if it were your own, is plagiarism. Any individual or group caught cheating on homework, lab assignments, or any exam/quiz will be subjected to full extent of academic actions allowed under University regulations. At a minimum, any student caught violating Academic Integrity Policy will receive no credit for the work concerned and one grade lower letter grade. To learn more about the University policy on Cheating and Plagiarism, visit:*

[Academic Information and Regulations-Cheating and Plagiarism](#)

University Withdrawal Policy

Class withdrawals during the final 3 weeks of instruction are not permitted except for a very serious and compelling reason such as accident or serious injury that is clearly beyond the student's control and the assignment of an Incomplete grade is inappropriate (see [Grades](#)). Application for withdrawal from CSULB or from a class must be filed by the student [online](#) whether the student has ever attended the class or not; otherwise, the student will receive a grade of "WU" (unauthorized withdrawal) in the course. More information regarding the University guidelines on Dropping and Withdrawing at:

[Dropping and Withdrawal](#)

Student Grievance Policy

Please check CSULB grievance policy and procedure at:

[Student Grievance Procedures](#)

Special Needs Accommodations

Online courses are required to meet ADA accessibility guidelines. Students with a disability or medical restriction who are requesting a classroom accommodation should contact the [Bob Murphy Access Center \(BMAC\) and also notify the instructor](#). BMAC personnel will work with the student to identify a reasonable accommodation in partnership with appropriate academic offices and medical providers. Only approved BMAC petitions will be accommodated.

Any student who is facing academic or personal challenges due to difficulty in affording groceries/food and/or lacking a safe and stable living environment is urged to contact the [CSULB Student Emergency Intervention & Wellness Program](#). Additional resources are available via [Basic Needs Program](#). The students can also email supportingstudents@csulb.edu, call (562)985-2038, or if comfortable, reach out to the instructors as they may be able to identify additional resources. For mental health assistance please check out [CSULB Counseling and Psychological Services \(CAPS\)](#).

Emergency Preparedness

Students are strongly encouraged to familiarize themselves with the [Personal Preparedness Instructions](#) and other resources under "Emergency Preparedness" link on [CSULB University Police web site](#).

Disclaimer

In the event of extraordinary circumstances beyond the University's control, the content and/or evaluation scheme in this course is subject to change.

Additional Information

Technology Requirements

Please contact the department if you need support with access to the Internet, electronic devices, or any other issues related to remotely accessing your course.

Tutoring

Take advantage of free peer tutoring (virtual) provided by Engineering Student Success Center (ESSC): [Engineering Tutoring](#)

Additional Resources

There are many services on campus to help you achieve success in your courses. Links to the following services are also available in BeachBoard course homepage under “CSULB Student Resources”:

- [Counseling and Psychological \(CAPS\)](#)
- [Disabled Student Services](#)
- [Enrollment Services](#)
- [Financial Aid](#)
- [Learning Assistance Center](#)
- [Student Health Services](#)
- [Tutoring at CSULB](#)
- [University Library](#)
- [Writers Resource Lab](#)

Student Feedback about the Course

*Student Feedback is highly encouraged. Please feel free to contact the instructor to share any concern or opinion about the course throughout the semester and participate in the **anonymous survey**. Early Feedback will provide the instructor the opportunity to address your concern and implement required modifications in a timely manner.*

Personal Assistance

Any student who is facing academic or personal challenges due to difficulty in affording groceries/food and/or lacking a safe and stable living environment is urged to contact the [CSULB Student Emergency Intervention & Wellness Program](#). Additional resources are available via [Basic Needs Program](#). The students can also email supportingstudents@csulb.edu, call (562)985-2038, or if comfortable, reach out to the instructors as they may be able to identify additional resources