

GENERAL INFORMATION

PROFESSOR INFORMATION



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COURSE DESCRIPTION AND PURPOSE

The course's main objective is to provide the student with a solid basic knowledge in inferential statistics, simple regression, and the analysis of variance (ANOVA). It will start by providing a review of the topics covered by STA 2023 (or a similar course). It will then lay the foundation for inferential statistics by discussing the normal distribution and the central limit theorem, before covering confidence intervals and hypothesis testing. Equipped with these tools, the student is then introduced to basic regression analysis and the analysis of variance.

COURSE OBJECTIVES

The course's objective are twofold. First, to equip the student with the tools necessary to critically think about statistical problems. This not only entails understanding the potential caveats or outright misinformation inherent to much statistic information encountered in everyday life; but also the acquisition of the technical skills to produce meaningful statistical figures from primary data. The second objective is to provide the student with solid foundation for more advanced courses in statistics, econometrics and data analysis.

COURSE AWARDS

IMPORTANT INFORMATION

POLICIES

Please review the [FIU's Policies](#) webpage. The policies webpage contains essential information regarding guidelines relevant to all courses at FIU, as well as additional information about acceptable netiquette for online courses.

As a member of the FIU community you are expected to be knowledgeable about the behavioral expectations set forth in the [FIU Student Code of Conduct](#).

TECHNICAL REQUIREMENTS AND SKILLS

One of the greatest barriers to taking an online course is a lack of basic computer literacy. By computer literacy we mean being able to manage and organize computer files efficiently, and learning to use your computer's operating system and software quickly and easily. Keep in mind that this is not a computer literacy course; but students enrolled in online courses are expected to have moderate proficiency using a computer. Please go to the "[What's Required](#)" webpage to find out more information on this subject.

Please visit our [Technical Requirements](#) webpage for additional information.

ACCESSIBILITY AND ACCOMMODATION

The Disability Resource Center collaborates with students, faculty, staff, and community members to create diverse learning environments that are usable, equitable, inclusive and sustainable. The DRC provides FIU students with disabilities the necessary support to successfully complete their education and participate in activities available to all students. If you have a diagnosed disability and plan to utilize academic accommodations, please contact the Center at 305-348-3532 or visit them at the Graham Center GC 190.

Please visit our [ADA Compliance](#) webpage for information about accessibility involving the tools used in this course.

Please visit the LMS Accessibility webpage for more information:

- [Blackboard](#)
- [Canvas](#)

For additional assistance please contact FIU's [Disability Resource Center](#).

ACADEMIC MISCONDUCT STATEMENT

Florida International University is a community dedicated to generating and imparting knowledge through excellent teaching and research, the rigorous and respectful exchange of ideas and community service. All students should respect the right of others to have an equitable opportunity to learn and honestly to demonstrate the quality of their learning. Therefore, all students are expected to adhere to a standard of academic conduct, which demonstrates respect for themselves, their fellow students, and the educational mission of the University. All students are deemed by the University to understand that if they are found responsible for academic misconduct, they will be subject to the Academic Misconduct procedures and sanctions, as outlined in the Student Handbook.

Academic Misconduct includes: **Cheating** – The unauthorized use of books, notes, aids, electronic sources; or assistance from another person with respect to examinations, course assignments, field service reports, class recitations; or the unauthorized possession of examination papers or course materials, whether originally authorized or not. **Plagiarism** – The use and appropriation of another's work without any indication of the source and the representation of such work as the student's own. Any student who fails to give credit for ideas, expressions or materials taken from another source, including internet sources, is responsible for plagiarism.

Learn more about the [academic integrity policies and procedures](#) as well as [student resources](#) that can help you prepare for a successful semester.

COURSE PREREQUISITES

STA 2023 or equivalent course.

PROCTORED EXAM POLICY

Proctored Exam Policy

TEXTBOOK & ONLINE COURSEWARE



Introductory Statistics

Illowsky, Barbara and Dean, Susan

OpenStax, Sep. 28, 2016

ISBN-10: 1938168208

ISBN-13: 978-1-938168-20-8

You may purchase your textbook online at the [FIU Bookstore](#).

Good news: your textbook for this class is available for free online! If you prefer, you can also get a print version at a very low cost. Your book is available in web view and PDF for free. You can also choose to purchase on iBooks or get a print version via the campus bookstore or from OpenStax on Amazon.com.

You can use whichever formats you want. Web view is recommended -- the responsive design works seamlessly on any device. If you buy on Amazon, make sure you use the link on your book page on openstax.org so you get the official OpenStax print version. (Simple printouts sold by third parties on Amazon are not verifiable and not as high-quality.)

Moreover, the course will use the **Knewton alta** adaptive learning software, which will be fully integrated into FIU's Canvas. You will need to purchase access to the course for the months of June and July (which will be a modest \$9.95/month). Each week, several assessments will be posted that will also provide links to additional learning material. Though not part of your final grade, you are required to finish these assessments by their due date. The quizzes, which your final grade will be based on, will also be posted on Knewton. The courseware also allows you to practice your skills outside these assignments.

To familiarize yourself with the courseware, follow this link:

<https://intercom.help/knewton-support/answers-for-students/getting-started/knerd-tips-for-students-using-an-lms>

EXPECTATIONS OF THIS COURSE

This is an online course, which means most (if not all) of the course work will be conducted online. Expectations for performance in an online course are the same for a traditional course. In fact, online courses require a degree of self-motivation, self-discipline, and technology skills which can make these courses more demanding for some students.

Remember that the course builds up on the material covered in STA 2023 or a similar course. In case you feel a bit rusty, **it is your responsibility to review the prerequisite material**. A good way to do this would be to review chapter 1-5 in the textbook. The courseware, Knewton alta, will also allow you go over a number of problem set style questions to assess your mastery of the material.

To get the best learning outcome, I strongly recommend you follow these steps each week:

- 1) **Read the assigned chapter(s) in the textbook:** This will give you a broad understanding of the material.

 - 2) **Work through the week's assessments:** They will allow you to test your learning. There will be several for each chapter (corresponding roughly to the different sections), and up to six per week. You will have to answer questions on the material covered, and, if you give a wrong answer, the adaptive learning system will guide you to additional and/or more focused material to review. It will allow you (and me!) to assess your learning and identify the areas where you are having problems.

 - 3) **Schedule a meeting with me:** If you aced the assigned material in the previous step: Congratulations, and enjoy the rest of your week! However, if you are stuck on something, you should get in touch with me and schedule a meeting.
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COURSE DETAIL

COURSE COMMUNICATION

Communication with the instructor should be directly by email or through Canvas.

DISCUSSION FORUMS

Keep in mind that your discussion forum postings will likely be seen by other members of the course. Care should be taken when determining what to post.

ASSESSMENTS

In order to mitigate any issues with your computer and online assessments, it is very important that you take the "Practice Quiz" from each computer you will be using to take your graded quizzes and exams. It is your responsibility to make sure your computer meets the minimum [hardware requirements](#).

Assessments in this course are not compatible with mobile devices and should not be taken through a mobile phone or a tablet. If you need further assistance please contact [FIU Online Support Services](#).

ASSIGNMENTS

You will be required to submit an ungraded weekly problem set. The only other assignments are the three quizzes discussed below. The material for each week will be posted Mondays and the deadline for the problem set is usually Sunday. For weeks that cover a lot of material, some problem sets will have a Monday deadline. That said, I want to strongly encourage you to do the problems sets as early in the week as your schedule permits. This will give you more time to prepare for the exam.

In order to give you time to reach out and discuss problems you might have with the material, the quizzes have a Tuesday deadline. Please note that quizzes have a strict **time limit**, and they need to be solved in **one single session**, and you will need to use **Honor Lock** to prevent any cheating.

ADOBE CONNECT PRO MEETING

Adobe Connect Pro Meeting

GRADING

You will be graded on three quizzes, due after weeks 2, 4 and 6, respectively. These quizzes are cumulative. That is, each one will be based on all the material covered in the course thus far. They will also get longer as we move along, and their weight in your grade will increase accordingly. Quizzes will have to be finished in one single sitting and you will be required to use Honor Lock to prevent cheating.

Course Requirements	Number of Questions	Time Limit	Number of Items	Points for Each	Weight
Quiz 1	20	1h	1	20	20%
Quiz 2	30	1h 30m	1	30	30%
Quiz 3	50	2h 30m	1	50	50%
Total			3	100	100%

Letter	Range (%)	Letter	Range (%)	Letter	Range (%)
A	95 or above	B	83 - 86	C	70 - 76
A-	90 - 94	B-	80 - 82	D	60 - 69
B+	87 - 89	C+	77 - 79	F	59 or less

COURSE CALENDAR

WEEKLY SCHEDULE

Summer B 2018	Tasks
Week 1 June 18 - 24	The Normal Distribution and the Central Limit Theorem (CLT). Chapters 6 & 7.
Week 2 June 25 - July 1	Confidence Intervals. Chapter 8
June 25 Add/Drop Deadline	QUIZ 1
Week 3 July 2 - 8	Hypothesis Testing with One Sample. Chapter 9.
July 4 - Independence Day University Closed	
Week 4 July 9 - 15	Hypothesis Testing with Two Samples and the Chi-Square Distribution. Chapters 10 & 11.
July 16 Deadline to drop with DR/WI	QUIZ 2
Week 5 July 16 - 22	Linear Regression and Correlation Chapter 12.
	F-Distribution and One-Way ANOVA
Week 6 July 23 - 27	Chapter 13. QUIZ 3

