Course Information

Name: Introduction to Applied Statistics
Course Code: STA 2122  Sections: 0022, 0023
Credit-hours: 3
Format: F2F

Class Meeting Days, Times, Locations:
Section 0022 will meet MWF from 8:00-8:50 AM in OSB 110
Section 0023 will meet MWF from 9:20-10:10 AM in OSB 110

Students will need to follow the University’s current health and safety guidelines when they attend class.

Final exam time assigned by the University: Tuesday Dec 6th at 3:00-5:00 PM. We will not have a cumulative final exam, but our last open and timed quiz will be given during final exams week, and will be available for a period of time that includes the final exam time assigned by the University.

Prerequisites: A grade of “C-“ or better in MAC 1105 College Algebra (or equivalent).
Special Note: Subsequent credit for STA 5126 is not permitted. No credit given for STA 2122 if a grade of “C-“ or better is earned in STA 2171, STA 3032 or QMB 3200.

Please note that, for each class period, if no students show up within the first 15 minutes, or if there is a 15-minute stretch of time when no students show up after the last student has left, then the rest of the period will be cancelled. The next lecture will begin where the cancelled lecture would have left off, and the next assessment will include the material that would have been taught in the cancelled lecture.

Course website: https://canvas.fsu.edu

Canvas Support
- Email: canvas@fsu.edu
- Phone: 850-644-8004
- Website: https://support.canvas.fsu.edu/home/
- Hours: 8am-5pm, Mon-Fri

Please turn on the course notifications in Canvas by going to Account/Notifications and selecting the Notify immediately option for all of the items under Course Activities.
Please check your FSU email and the course announcements every day.
If you communicate with me via email, please use your @fsu.edu account.
We will not use Honorlock.
Instructor Information
Name: Jennifer Langston
Email: jnl21e@fsu.edu
You may expect a response from me within two work days.

Office Hours: Wednesdays 1:20-2:20 PM
Thursdays 1:00-2:00 PM
Location: OSB 322
If you are unable to come at this time, please email me to set up an appointment.

Course Description
The course covers Normal distributions, sampling variation, confidence intervals, hypothesis testing, one-way and two-way analysis of variance, correlation, simple and multiple regression, contingency tables and chi-square tests, non-parametric statistics.
The purpose of this course is to prepare students for further study and job preparation in the field of Natural Sciences. It will emphasize understanding of data and interpretation of statistical analyses. It will require students to think of data, and report the results of their analyses, in context.

Learning Objectives
This course has been approved to meet FSU’s Liberal Studies Quantitative and Logical Thinking requirements and helps you become a critical analyst of quantitative and logical claims.
In order to fulfill the State of Florida’s College mathematics and computation requirement the student must earn a “C–” or better in the course.
By the end of the course, students will demonstrate the ability to:
1. Select and apply appropriate methods (i.e., mathematical, statistical, logical, and/or computational models or principles) to solve real-world problems.
2. Use a variety of forms to represent problems and their solutions.
The above two competencies will be assessed in the Liberal Studies Quantitative Assessment for STA 2122, which includes a written summary of results.
3. Use descriptive statistics and graphical methods to summarize data accurately.
4. Use inferential statistics to make valid judgments based on the data available.
5. Select the appropriate statistical tools to analyze a particular problem.
6. Describe the goals of various statistical methodologies conceptually.
7. Develop a healthy skepticism toward statistical studies and their results based on a sensible consideration of the techniques employed.

Required Materials
- A personal computer, reliable internet connection, and Chrome or Firefox browser.
- A TI-84 Plus or equivalent calculator. We will teach you how to use a TI-84 series calculator, but we cannot promise to be able to help with any other type of calculator.
A textbook is not required for this class. The instructor will provide all required course notes and exercises. Please note that the materials provided by the instructor were put together for your individual use only. We ask that you do not share them, especially with third parties who are not enrolled in this class. If you seek help outside of class, then you may, of course, allow your helper to see the materials, but please do not allow them to make copies or in any other way take our material. We appreciate your co-operation in protecting our material. Thank you!
Additional Resource

Note on Technology-dependent Assessments
This course is technology-dependent. While we will do our best to work with you on technology issues, please be aware that if you take an assessment but we can find absolutely no record of the fact, then we will not be able to give you credit for it. Please do not use Safari when you take assessments on Canvas, please use Chrome or Firefox.

Grades & Assessments

<table>
<thead>
<tr>
<th>Assessments – all are online on Canvas and graded for accuracy</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Open Quizzes (OQ)</strong></td>
<td>25%</td>
</tr>
<tr>
<td>o Collaboration is allowed and encouraged</td>
<td></td>
</tr>
<tr>
<td>o Unlimited attempts (highest score is kept)</td>
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<tr>
<td>o OQs will all be due by Sunday, December 4th (except the final OQ which will be due during final exams week) and will be posted as we go. Please do not wait until the last week to start on them!</td>
<td></td>
</tr>
<tr>
<td>o The One-way Anova OQ, the SLR Inference OQ, and the Chi-Square Tests OQ cannot be dropped. Of the other OQs, the lowest two percentage grades will be dropped</td>
<td></td>
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<tr>
<td>o <strong>Extensions will not be granted for any of the OQs</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Timed Quizzes (TQ)</strong></td>
<td>65%</td>
</tr>
<tr>
<td>o Collaboration and internet sources (except the course Canvas) are not allowed</td>
<td></td>
</tr>
<tr>
<td>o Two timed attempts per quiz (highest score is kept)</td>
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</tr>
<tr>
<td>o Each TQ will be available from Thursday 12:01 AM to Sunday 11:59 PM after the relevant module has been taught. The final TQ will be due during final exams week and made available for several days</td>
<td></td>
</tr>
<tr>
<td>o The One-way Anova TQ, the SLR Inference TQ, and the Chi-Square Tests TQ cannot be dropped. Of the other TQs, the lowest two percentage grades will be dropped</td>
<td></td>
</tr>
<tr>
<td><strong>Liberal Studies Quantitative Assessment (LSQA)</strong></td>
<td>10%</td>
</tr>
<tr>
<td>o Collaboration and internet sources (except the course Canvas) are not allowed</td>
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<tr>
<td>o Two timed attempts (highest score is kept)</td>
<td></td>
</tr>
<tr>
<td>o Cannot be dropped</td>
<td></td>
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<tr>
<td>o LSQA will be available from Thursday 12:01 AM to Sunday 11:59 PM once the relevant module has been taught</td>
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<tr>
<td><strong>Total</strong></td>
<td>100%</td>
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**Extensions will not be allowed on ANY of the quizzes unless there is a documented/reasonable excuse.**

- Assessments that are not submitted will receive a grade of zero. When a makeup is submitted, the zero will be replaced with the earned grade.

- If you believe that the grade you received on an assessment is incorrect, please bring it to my attention within 48 hours after the grade has been made available to you. If no issues are raised during that 48-hour time frame, then it will be assumed that the grade is accepted and subsequent requests for a grade review may not be granted.
No make-ups will be allowed after the Last Day of Classes – this applies to all assessments given during the term.

Please ignore the grade totals or averages that you may see on the course website; they are not correct and unfortunately it is not possible to disable them. In this class, we only store and display individual assessment grades on the course website, we do not do grade calculations there.

All grades will be recorded as percentages, and these percentages (not points) will be used in your overall course grade calculation: \((\text{OQ Average} \times 0.25) + (\text{LSQA} \times 0.1) + (\text{TQ Average} \times 0.65)\).

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>≥93</td>
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<tr>
<td>A-</td>
<td>90-92</td>
</tr>
<tr>
<td>B+</td>
<td>87-89</td>
</tr>
<tr>
<td>B</td>
<td>83-86</td>
</tr>
<tr>
<td>B-</td>
<td>80-82</td>
</tr>
<tr>
<td>C+</td>
<td>77-79</td>
</tr>
<tr>
<td>C</td>
<td>73-76</td>
</tr>
<tr>
<td>C-</td>
<td>70-72</td>
</tr>
<tr>
<td>D+</td>
<td>67-69</td>
</tr>
<tr>
<td>D</td>
<td>63-66</td>
</tr>
<tr>
<td>D-</td>
<td>60-62</td>
</tr>
<tr>
<td>F</td>
<td>≤59</td>
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</tbody>
</table>

*Your final grade in the course will be rounded to the nearest whole number. Example: An 89.5% would be rounded to 90% and you’d receive an A- and an 89.4% would round to 89% and you’d receive a B+.

**How to aim for success in the course**

For each module:
- During lecture, pay attention and follow along by filling out the notes using the fill-in-the-blank notes provided on Canvas.
- Don’t be afraid to ask questions!
- After lecture, study the notes and examples provided.
- Attempt the relevant Open Quiz (each OQ will be very similar to its corresponding TQ/LSQA).
- Make sure you know how to use your calculator appropriately (calculator instruction videos are posted in modules that require their use).
- If you need more practice, complete the extra exercises posted in the notes and/or in the module.
- Make sure to study the solutions as they can provide insights to other problems.
- Go back and finish up the relevant Open Quiz if needed.
- After all of this, take the relevant Timed Quiz.

**Receiving a grade of “Incomplete”**

A request for a grade of “Incomplete” will
~ NOT be granted if you have completed the coursework, including the assessments that cannot be dropped and excluding the drops and allowable absences.
~ be granted only if both of the following conditions are satisfied:
  1. the only assessment that you have yet to take is the final assessment, and
  2. your overall average excluding the final assessment is a passing grade (70% or above).

**Final Exam Rescheduling Policy**

*You may not take the final exam before final exams week.* Individual students who need to reschedule the final exam for a different time during final exams week should talk to me about it first to get my approval and then fill out and follow the instructions on the “Request to Reschedule a Final Examination” form at [https://artsandsciences.fsu.edu/sites/g/files/upcbnu321/files/2022-01/Request_to_Reschedule_01032022.pdf](https://artsandsciences.fsu.edu/sites/g/files/upcbnu321/files/2022-01/Request_to_Reschedule_01032022.pdf).

The form needs to be submitted to the College of Arts and Sciences before 5pm on the last day of classes.
If you experience a documented emergency that prevents you from observing the above deadline, contact me as soon as you are able to, and we’ll take it from there.

**University Attendance Policy**

Excused absences include documented illness, deaths in the family and other documented crises, call to active military duty or jury duty, religious holy days, and official University activities. These absences will be accommodated in a way that does not arbitrarily penalize students who have a valid excuse. Consideration will also be given to students whose dependent children experience serious illness. **Drop and Withdrawal** deadlines are given in the University’s academic calendar at [https://registrar.fsu.edu/calendar/](https://registrar.fsu.edu/calendar/).

**Academic Honor Policy**

The Florida State University Academic Honor Policy outlines the University's expectations for the integrity of students' academic work, the procedures for resolving alleged violations of those expectations, and the rights and responsibilities of students and faculty members throughout the process. Students are responsible for reading the Academic Honor Policy and for living up to their pledge to "...be honest and truthful and...[to] strive for personal and institutional integrity at Florida State University." (Florida State University Academic Honor Policy, found at [http://fda.fsu.edu/academic-resources/academic-integrity-and-grievances/academic-honor-policy](http://fda.fsu.edu/academic-resources/academic-integrity-and-grievances/academic-honor-policy))

**Academic Success**

Your academic success is a top priority for Florida State University. University resources to help you succeed include tutoring centers, computer labs, counseling and health services, and services for designated groups, such as veterans and students with disabilities. The following information is not exhaustive, so please check with your advisor or the Department of Student Support and Transitions to learn more.

**Americans with Disabilities Act**

Florida State University (FSU) values diversity and inclusion; we are committed to a climate of mutual respect and full participation. Our goal is to create learning environments that are usable, equitable, inclusive, and welcoming. FSU is committed to providing reasonable accommodations for all persons with disabilities in a manner that is consistent with academic standards of the course while empowering the student to meet integral requirements of the course.

Students with disabilities needing academic accommodation should:

1. register with and provide documentation to the Office of Accessibility Services; and
2. request a letter from the Office of Accessibility Services to be sent to the instructor indicating the need for accommodation and what type; and,
3. meet (in person, via phone, email, skype, zoom, etc...) with each instructor to whom a letter of accommodation was sent to review approved accommodations.

Please note that instructors are not allowed to provide classroom accommodations to a student until appropriate verification from the Office of Accessibility Services has been provided.

This syllabus and other class materials are available in alternative format upon request.

For the latest version of this statement and more information about services available to FSU students with disabilities, contact the:

Office of Accessibility Services
874 Traditions Way
108 Student Services Building
Florida State University
Tallahassee, FL 32306-4167
(850) 644-9566 (voice)
Academic accommodations will be provided as soon as possible after verification is received. Academic accommodations are not retroactive, so they will not apply to lectures/lessons and assessments that took place before verification was received.

Confidential Campus Resources
Various centers and programs are available to assist students with navigating stressors that might impact academic success. These include the following:

<table>
<thead>
<tr>
<th>Victim Advocate Program</th>
<th>Counseling and Psychological Services</th>
<th>University Health Services</th>
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</thead>
<tbody>
<tr>
<td>University Center A, Rm. 4100</td>
<td>Askew Student Life Center, 2nd floor 942 Learning Way</td>
<td>Health and Wellness Center</td>
</tr>
<tr>
<td>(850) 644-7161</td>
<td>(850) 644-8255</td>
<td>(850) 644-6230</td>
</tr>
<tr>
<td>Available 24/7/365</td>
<td><a href="https://counseling.fsu.edu/">https://counseling.fsu.edu/</a></td>
<td><a href="https://uhs.fsu.edu/">https://uhs.fsu.edu/</a></td>
</tr>
<tr>
<td>Office Hours: M-F 8-5</td>
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<tr>
<td><a href="https://dsst.fsu.edu/vap">https://dsst.fsu.edu/vap</a></td>
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Sexual Misconduct and Title IX Reporting
As an instructor, I am obliged to report all instances of sexual misconduct and other Title IX issues that I become aware of to the University’s Title IX Director; I cannot hold such information confidential. If you would like to discuss your situation in confidence, you may contact the Victim Advocate Program (https://dos.fsu.edu/vap/), Counseling & Psychological Services (https://counseling.fsu.edu/), the Employee Assistance Program (https://eap.fsu.edu/), University Health Services (https://uhs.fsu.edu/), or pastoral counselors. If you would like to submit a report to the University’s Title IX Director, please go to https://report.fsu.edu/.

Disaster
At times of severe weather or other disasters, please check your FSU email, your text messages, the Seminole Safe App and FSU Alerts (https://alerts.fsu.edu/) as often as you can to keep yourself informed. In the absence of internet access, you may call 850-644-4636 for updates. Check for the latest information every day before you leave home so that you don’t miss any last minute announcements. If the University closes due to a disaster, we will all be informed via the above means, and classes and office hours will be automatically cancelled even if I don’t announce it. As long as the University remains open, classes will still be on. However, please practice safety first. If it will be unsafe for you to come to class due to the effects of a disaster, please do not attempt to come in. You will not be penalized, we will work with you. You can sign up to receive alerts via SMS text messages here: https://emergency.fsu.edu/services/fsu-alert-emergency-notification-warning-system/fsu-alert-sms-text-messages. See here for other ways in which FSU delivers warnings: https://emergency.fsu.edu/services/fsu-alert-emergency-notification-warning-system.

Syllabus Change Policy
Except for changes that substantially affect implementation of the evaluation (grading) statement, this syllabus is a guide for the course and is subject to change with advance notice.

Classes Subject to HB233 Recording
In this class, consistent with state law and university policy, students are permitted to make recordings of class lectures for personal use only. As noted, sharing, posting, or publishing classroom recordings may subject you to honor code violations and legal penalties associated with theft of intellectual property and violations of
other state law. Moreover, students and educators have expressed concern that recording classroom activities may negatively impact the learning experience for others, especially in classes that involve questions, discussion, or participation. To protect a learning environment in which everyone feels free to experiment with ideas, we ask you refrain from recording in ways that could make others feel reluctant to ask questions, explore new ideas, or otherwise participate in class. Students must monitor their recording so that they do not include participation by other students without permission. Students with disabilities will continue to have appropriate accommodations for recordings as established by the Office of Accessibility Services.