

Introductory Statistics 804-189, Section 001 (CRN #10781) 3 credits
 Mondays and Wednesdays, 9:00-10:20 B-181

Instructor: Beth Brown
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My Schedule:

Note: Office Hours are also available by appointment. PLEASE feel free to contact me to set up different times to meet if the posted hours do not fit your schedule.

Mon		Intro Statistics 9-10:20 B181	Office Hour 10:30-11:20		Office ½ Hour 12:30- 12:50	Math w/Bus. Apps 1:00-2:20 B108	
Tues	Study Group Coll Algebra 8-8:50 A-019	College Algebra 9-10:20 A010				Study Group Calculus I 1:30-2:20 E216	Calculus I 2:30-4:20 E-102
Wed		Intro Statistics 9-10:20 B181	Department Meeting 10:30-11:30		Office ½ Hour 12:30- 12:50	Math w/Bus. Apps 1:00-2:20 B108	
Thurs	Study Group Coll Algebra 8-8:50 A-019	College Algebra 9-10:20 A010				Study Group Calculus I 1:30-2:20 B-173	Calculus I 2:30-4:20 E102

Description: Students taking Introductory Statistics display data with graphs, describe distributions with numbers, perform correlation and regression analyses, and design experiments. They use probability and distributions to make predictions, estimate parameters, and test hypotheses. They draw inferences about relationships including ANOVA.

Competencies:

1. Organize data
2. Summarize data numerically
3. Use probability distributions
4. Investigate study design
5. Draw inference about population parameters from sample data from one population
6. Draw inference about population parameters from sample data from two or more populations
7. Evaluate correlation and linear regression in bi-variate data

Textbook: *Elementary Statistics, 8th Edition*, by Neil A. Weiss, Pearson / Addison Wesley

Calculator: A basic, scientific calculator (such as a TI-30) will be helpful for this course. Graphing calculators are not required, but if you already have one, you are welcome to make use of it. You may NOT use your cell phone or other device as a calculator on tests or quizzes.

Grading Information:

- Tests (50% of grade): 5 tests are planned; see tentative schedule for dates, topics will be clarified prior to each test. Tests will be open-book, open-notes, calculators permitted.
- Homework (15% of grade): Selected problems from the suggested textbook exercises and from other sources will be collected approximately on a weekly basis.
- Quizzes / In-Class Activities (15% of grade): No make-ups on in-class quizzes, but the lowest grade in this category will be dropped. We'll most likely have quizzes on non-test weeks.
- Final Exam (20% of grade): A comprehensive final exam will be given and will be open-book, open-notes, calculator permitted.
- Ungraded Homework: *The best way to learn mathematics is to do mathematics.* You are expected to work on textbook exercises between sessions. Check your answers and make corrections. Suggested problems for each section will be posted in Blackboard.
- Mid-term status will be entered during weeks 5-7. The last day to withdraw from classes is Wednesday, November 25, 2015. Please feel free to discuss grade concerns with me at any time.

Grading Scale: The standard WCTC grading scale is as follows:

Grades	Percent Value	Point Value
A	95-100	4.00
A-	93-94	3.67
B+	91-92	3.33
B	87-90	3.00
B-	85-86	2.67
C+	83-84	2.33
C	79-82	2.00
C-	77-78	1.67
D+	75-76	1.33
D	72-74	1.00
D-	70-71	0.67
F	69 or below	0.00

Full Credit: Answers correct; all work shown to justify answers, necessary formulas written out and used correctly; calculations recorded; work performed on calculator indicated.

Partial Credit: Answers accurate, but not enough work shown to justify steps; misuse of some formulas; incomplete explanations provided; minor arithmetic errors in calculations.

Little to no Credit: Answers incorrect; major conceptual errors; no work shown; wrong formulas used throughout problem; mathematical computations in formulas incorrect.

Accommodations: If you require any special accommodations to complete this course, I ask you to contact me within the first week of class. It is important that you provide me with a copy of your Student Accommodation Card. If you have questions about this, please ask and I can provide you with contact information for the correct offices on campus.

Extra Help: You are strongly encouraged to make use of my office hours whenever you have concerns. If my hours do not work with your schedule, just ask and we will set up an alternate time. Make use of the Learning Place (phone number 262-691-7837). Math help is available Mon-Thurs from 8:30 a.m.-7:30 p.m. and Fri. from 8:30 a.m.-11:30 a.m. Finally, it is always helpful to work with your classmates, so study together.

Technology: We may make use of Microsoft Excel in-class, and it may be helpful to have access to this if you are interested in exploring it on your own. I may occasionally demonstrate concepts using Minitab, although I do not expect you to use this on your own. Handouts and grades will be posted in Blackboard. Please ask if you have any concerns about accessibility to this technology.

Attendance: It is in your best interest to attend every class session since it is my intention that class activities will help you gain a solid understanding of the material. Communicate with me - in advance when possible - should you have issues during the semester which require that you miss class. There are no make-ups for missed tests or exams with the exception of medical emergencies or religious observation. Repeated absences or other circumstances may result in low grades. Please communicate with me if you have concerns about the course and are considering withdrawing. If you decide that withdrawing from the course is the best option, it will be YOUR responsibility to drop the course before the deadline. The last day to drop courses for the spring semester is Wednesday, November 25, 2015.

Late Work: In general, you need to be present in class to turn in work on the day that it is due. I realize that there may be an occasional need to submit work late due to illness, emergency, or other factors. If I do accept late work, I reserve the right to deduct points from any assignment.

Critical Life Skills: Critical Life Skills are broad outcomes or skills that every graduate of WCTC is expected to achieve. These skills go beyond the context of a specific course or program and are the skills employers tell us they expect of employees. WCTC has identified the following six critical life skills that are important in every area of learning:

1. **Citizenship Skills:** Demonstrate local and global awareness, social responsibility, and effective engagement with diverse populations.
2. **Communication Skills:** Communicate effectively in personal, academic, and professional interactions using appropriate modalities.
3. **Critical Thinking Skills:** Evaluate pertinent information to reach an informed conclusion in personal, academic, and professional settings.
4. **Problem-solving Skills**:** Solve personal, academic, and professional problems using disciplinary concepts and frameworks.
5. **Relationship Skills:** Cultivate civil relationships to be effective in personal, academic, and professional life.
6. **Self-Management Skills:** Apply methods of continuous personal, academic, and professional improvement.

** Problem-solving may be assessed in this course. More information regarding the assessment will be provided at a later date.

Communication / School Closings: In addition to posting announcements on Blackboard, I will occasionally send email announcements to the entire class. I will communicate with you ONLY through your WCTC email, so be sure to check it regularly. Pay attention to local media and to the WCTC web site for information regarding school closings due to bad weather or other emergencies.

WCTC Student Code of Conduct:

I expect that the code of conduct will be respected by all members of this class, and I will report violations to the Associate Dean of Math/Science. In general, it is expected that each member of the class will contribute in a positive way to the learning atmosphere. This includes setting phones to vibrate mode and *leaving the classroom* to answer calls or texts only if urgent circumstances require a response before the end of class.

WCTC Student Code of Conduct Statement:

WCTC, as a community dedicated to learning, personal growth and the advancement of knowledge, expects and requires the behavior of all of its students to be compatible with its high standards of scholarship and conduct. All individuals and/or groups of the WCTC community are expected to speak and act with respect for the human dignity of others, both within the classroom and outside it, in social and recreational as well as academic activities. The WCTC Code of Conduct and Academic Ethics Code further outline the rights and responsibilities of students. For more information, those documents can be found at: www.wctc.edu/conduct.

WCTC Title IX Statement:

WCTC prohibits all forms of discrimination, harassment, intimidation, and coercion – including sexual harassment, assault, and other forms of sexual misconduct. If you have been the victim of, witnessed, or been made aware of an incident of discrimination/harassment (including sexual misconduct), campus support resources exist – and reporting is strongly encouraged. Students should be aware that WCTC staff, faculty, and administrators have a duty to report such incidents. For the safety of our campus community, we encourage students to do the same; if you see something – say something. The College’s Title IX Coordinator, the Vice President of Student Services, can be reached at 262-691-5240. For more information, including links to community and confidential resources, visit www.wctc.edu/sexual-misconduct.

Tentative Schedule – Subject to change

<i>Date</i>	<i>Topics</i>	<i>Notes</i>
W 8/26/15	1.1, 1.2 - Introduction	
M 8/31/15	2.1, 2.2, 2.3, 2.4 – Organizing Data	
W 9/2/15	3.1, 3.2 – Descriptive Measures	
M 9/7/15	<i>Labor Day – No Classes</i>	NO CLASS
W 9/9/15	3.2, 3.3, 3.4 – Descriptive Measures	
M 9/14/15	Review for Test 1, 4.1, Regression & Correlation	
W 9/16/15		Test 1
M 9/21/15	4.2, 4.3 – Regression & Correlation	
W 9/23/15	4.3, 4.4 – Regression & Correlation	
M 9/28/15	5.1, 5.2, 5.3 – Probability	
W 9/30/15	Review for Test 2, 6.1 – Normal Distribution	
M 10/5/15		Test 2
W 10/7/15	6.1, 6.2 – Normal Distribution	
M 10/12/15	6.3, 6.4 – Normal Distribution	
W 10/14/15	7.1, 7.2 – Sampling Distributions	
M 10/19/15	7.2, 7.3 – Sampling Distributions, Review for Test 3	
W 10/21/15		Test 3
M 10/26/15	8.1, 8.2 – Confidence Intervals	
W 10/28/15	8.3, 8.4 – Confidence Intervals	
M 11/2/15	8.4, 9.1 – Confidence Intervals, Hypothesis Testing	
W 11/4/15	9.1, 9.2 – Hypothesis Testing	
M 11/9/15	9.2, 9.3 – Hypothesis Testing	
W 11/11/15	9.4, 9.5 – Hypothesis Testing	Test 4 – take home out
M 11/16/15	Review Ch. 8 & 9, 10.1 – Two sample means	
W 11/18/15	10.2, 10.3 – Two sample means	Test 4 – TAKE HOME DUE
M 11/23/15	10.3, 10.4 – Two sample means	
W 11/25/15	<i>No Class, Last Day to Withdraw from Semester Classes</i>	<i>Drop Deadline</i>
M 11/30/15	11.1, 11.2, 11.3 – Inferences for Population Proportions	
W 12/2/15	Finish Ch. 11, 12.1, 12.2 – Chi-Square Goodness of Fit	Test 5 – take home out
M 12/7/15	12.2, 12.3, 12.4 – Chi-Square Independence Test	
W 12/9/15	Finish Ch. 12, 13.1, 13.2 – ANOVA	Test 5 – TAKE HOME DUE
M 12/14/15	13.1, 13.2 - ANOVA	Final exam take home out
W 12/16/15	Semester Review	
M 12/21/15	Comprehensive final exam in-class and take home due	FINAL EXAM