Course Title: Business Statistics II Stat 201 72 3 credits

Students For Whom Course Intended: The STAT 201 is designed to meet the needs and program requirements of Business majors.

Prerequisite: A grade of C - or higher in STAT 200.

Course Description: Application of statistical methods used for a description and analysis of business problems. The development of analytical skills is enhanced by use of Excel one of the available statistical packages. Topics include continuation of hypothesis testing, multiple regression and correlation analysis, residual analysis, variable selection techniques, analysis of variance and design of experiments, goodness of fit, and tests of independence.

Goals: To familiarize students with (1) inferential statistics including hypothesis tests and confidence intervals for means, proportions and variances. (2) Simple linear regression and correlation (3) Multiple regression (4) Analysis of variance and experimental design.


The topics are covered in chapters 10 through 16 of the textbook with a review of chapter 9 and if time permits chapter 20.

Technology: Computer; Microsoft Excel. A hand-held calculator (Ti-83) is required especially for tests, quizzes and in class use. Cell phones are not calculators.

Instructor: Wojciech Kolc
Email: kolec_wo@ccsu.edu
Office: Maria Sanford Room 211 or 219

Office Hours: T 5:00-5:50 pm and 8:40-9:20 pm in MS 211 or 219

Th 5:00-5:50 pm and 8:40-9:20 pm in MS 211 or 219

Other meeting times are available by appointment.
If you need help, don’t wait! Come see me!

Class Meeting Times: Tuesday and Thursday, 5:55-7:10pm Room 214

Attendance is taken and punctuality expected.
Please use email to inform me about each absence.

Course Requirements: Attend and participate in class regularly; complete homework assignments; take tests, quizzes and the final exam, as scheduled. A general rule for many college courses is that you are expected to spend at least 2 hours of study outside of class for every credit hour.

Electronic Devices Policy: Cell phones, MP3’s, PDA’s, or any form of personal electronic or communication devices, are not to be used during class, exams, or quizzes. If used during a test or exam, a zero grade is the consequence.
Resources Available for help with course content:

1. Take advantage of your instructor's office hours as soon as a problem is encountered. **Do not wait until just before the test or project due date to do so.**

2. Free tutoring is available in Willard Hall Room 101, at other locations on campus and online. A schedule for hours the Center is open will be posted soon after the beginning of the semester.

3. Form a study group with other students in your section. Explaining solutions to homework problems to each other is a good way to learn.

4. A list of private tutors for hire is available in the math department office, Room 107 Marcus White, (860)832-2835.

**University Policies:**

1. You must take the **final examination** at the time specified in the course selection book: **Thursday May 12, 4:30-6:30 pm**

2. Central Connecticut State University strives to maintain our campus as a place of work and study for faculty, staff, and students that is free of all forms of prohibited discrimination and harassment based upon age; ancestry, color; gender identity and expression; intellectual disability; learning disability; mental disorder; physical disability; marital status, national origin; race; religious creed; sex, (including pregnancy, transgender status, sexual harassment and sexual assault); sexual orientation; or any other status protected by federal or state laws. Any student who has concerns about should contact the Office of Diversity and Equity (ODE) at 860-832-1652, Student Affairs at 860-832-1601, or his/her faculty member. The ODE is located on the main floor of Davidson Hall, room 102.

3. Please contact me privately to discuss your specific needs if you believe you need course accommodations based on the impact of a disability, medical condition, or if you have emergency medical information to share. I will need a **copy of the accommodation letter** from Student Disability Services in order to arrange your class accommodations. Contact Stephanie Scapeccia in Student Disability Services at: (860) 832-1952, Willard Hall, Room 101-03, if you are not already registered with them. Student Disability Services maintains the confidential documentation of your disability and assists you in coordinating reasonable accommodations with your faculty.

4. Central Connecticut State University (CCSU) will not tolerate sexual misconduct against students, staff, faculty, or visitors in any form, including but not limited to: sexual assault, sexual exploitation, sexual harassment or stalking, as defined in CCSU policies. For additional information, please consult the CCSU policies at http://www.ccsu.edu/page.cfm?p=1333. All faculty members and staff have a duty to report incidents of sexual harassment including sexual misconduct, intimate partner violence and stalking to Rosa Rodriguez, Title IX Officer, Office of Diversity and Equity, Davidson Hall, 102.

**To file a report contact:** Diversity and Equity (860-832-1652); Student Affairs (860-832-1601); Student Conduct (860-832-1667) or the University Police (860-832-2375).

**For support and advocacy, contact:** Office of Victim Advocacy at 860-832-3795 or sarahdodd@ccsu.edu; Student Wellness Services at 860-832-1945 (confidential), the Women’s Center at 860-832-1655, the local YWCA’s Sexual Assault Crisis Services Hotline at 860-223-1787 (confidential) and Prudence Crandall Center for Domestic Violence (confidential) at 888-774-2900 (24-hour hotline).

5. All students are expected to demonstrate integrity in the completion of their coursework. Academic integrity means doing one's own work and giving proper credit to the work and ideas of others. It is the responsibility of each student to become familiar with what constitutes academic dishonesty and plagiarism and to avoid all forms of cheating and plagiarism. Students who engage in plagiarism and other forms of academic misconduct will face academic and possibly disciplinary consequences. Academic sanctions can range from a reduced grade for the
assignment to a failing grade for the course. From a disciplinary standpoint, an Academic Misconduct Report may be filed and a Faculty Hearing Board may impose sanctions such as probation, suspension or expulsion.

For further information on academic misconduct and its consequences, please consult the Student Code of Conduct (http://www.ccsu.edu/StudentConduct) and the Academic Misconduct Policy (http://www.ccsu.edu/AcademicIntegrity).

6. In the event of a weather emergency which requires curtailment or cancellation of classes, listen to WTIC (1080 AM) or call (860) 832-3333 for the “general snow message.”

7. The last day to withdraw from a course and receive the grade of “W” is Monday, April 18th. Approvals for withdrawal prior to this date are not required; however, it is strongly recommended that students consult with their academic advisors prior to deciding to withdraw. Cessation of attendance, notice to the instructor, or telephone calls to the Registrar’s Office are not considered official notice of a student’s intention to drop the course. After April 18th, withdrawals are allowed only under extenuating circumstances and require approval of the course instructor and department chair (in that order).

**Policies for STAT 20172**

**Course Requirements:** Attend and participate in class regularly; complete all assigned readings and homework during the semester; submit projects when due; take tests and final exam, as scheduled; and pickup handouts at the time the handouts are passed out. A general rule for any college course is that you are expected to put in at least 2 hours of work outside of class for every hour in class.

**Electronic Devices Policy:** Turn off electronic equipment except for a computer and calculator. If special accommodations apply please bring the documentation to discuss the accommodation with me during office hours.
Policy regarding textbook assignments: Textbook assignments are collected. The expectation is the assignment is completed for the next class (More details about collecting homework will be given in class). Assignment completed in a timely fashion help avoid test cramming. The assignments are posted below. For difficulty completing assignments ask questions when trouble is first encountered. My office hours, an appointment with me or the tutoring center are three places to ask questions. Homework assignments are collected and random problems are graded. 

All the even numbered problems in the chapters covered are assigned (recommended but specific problems will be highlighted). Doing the problems is essential for understanding the methodology and passing the tests. Particular attention should be given to the problems called Self-Test Exercises.

Policy regarding projects:
Approximately three projects will be assigned during the semester. Some will require the use of a computer. Each project is of equal weight in determining the final grade. The expectation is that each project is complete, neat, correct, consistent with directions and submitted on the date due. Project due dates, grade rubrics, collaboration guide lines and directions accompany the hand out. Generally each project is handed to the students at least one week before due. Please use office hours or make an appointment for questions about any project. Please bring with you completed work to date and any directions provided.

The policy regarding missing tests:
A make-up test is allowed in case of a documented event or circumstance beyond the control of the student. An undocumented missed test is an automatic zero. Please discuss missed tests with me prior to the test. Don’t assume your event does not qualify.

Evaluation
Minimum averages have been established for each of these grades:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Minimum Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>≥ 93%</td>
</tr>
<tr>
<td>A-</td>
<td>≥ 90%</td>
</tr>
<tr>
<td>B+</td>
<td>≥ 87%</td>
</tr>
<tr>
<td>B</td>
<td>≥ 83%</td>
</tr>
<tr>
<td>C+</td>
<td>≥ 77%</td>
</tr>
<tr>
<td>C</td>
<td>≥ 73%</td>
</tr>
<tr>
<td>B-</td>
<td>≥ 80%</td>
</tr>
<tr>
<td>C-</td>
<td>≥ 70%</td>
</tr>
<tr>
<td>D+</td>
<td>≥ 67%</td>
</tr>
<tr>
<td>D</td>
<td>≥ 63%</td>
</tr>
<tr>
<td>D-</td>
<td>≥ 60%</td>
</tr>
</tbody>
</table>

The average for the course will be based on the following weights:

- Homework: 15%
- Projects: 20%
- Three Tests (15% each): 45%
- Final Examination: 20%

Total: 100%
The tentative course schedule is given below.

<table>
<thead>
<tr>
<th>Topics</th>
<th>Readings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction, Rev 1 of Stats 200</td>
<td>Chapters 1-7</td>
</tr>
<tr>
<td>Confidence Interval and Hypothesis Testing</td>
<td>Chapters 8-9</td>
</tr>
<tr>
<td>Statistical Inference about Means and Proportions with Two Populations</td>
<td>Chapter 10</td>
</tr>
<tr>
<td>Inferences about Population Variances</td>
<td>Chapter 11</td>
</tr>
<tr>
<td>Tests of Goodness of Fit and Independences</td>
<td>Chapter 12</td>
</tr>
<tr>
<td>Simple Linear Regression</td>
<td>Chapter 14</td>
</tr>
<tr>
<td>Multiple Regression</td>
<td>Chapter 15</td>
</tr>
<tr>
<td>Analysis of Variance</td>
<td>Chapter 13</td>
</tr>
<tr>
<td>Regression Analysis: Model Building</td>
<td>Chapter 16</td>
</tr>
</tbody>
</table>

- If time permits, we will cover Index Numbers-Chapter 20

IMPORTANT DATES:

Test 1-Thursday February 18

Test 2- Thursday March 17

Test 3-Thursday April 21

Final Exam-Thursday May 12  4:30-6:30 pm