Course Objective: This course introduces the basic tools used to empirically investigate economic theory and behavior. We develop the classical regression model and discuss how to apply the methodology to real-world economic problems.

In order to fully complete the out-of-class projects you will need access to a statistical software package. The university provides on-campus and remote access to Stata, which is the recommended software for this class. The free econometrics program GRETL is also supported.

Text: *Introductory Econometrics* by James Stock and Bill Watson is a recommended but NOT REQUIRED textbook. I do not teach out of that particular textbook, so you can purchase any edition you wish (the older the cheaper!). Alternative textbooks are *Undergraduate Econometrics* by Carter Hill, William Griffiths, and George Judge.

Course Web Page: Available at canvas.uncc.edu.

Grading: Grading will proceed in the following manner.

- 16 module quizzes worth 150 points total
- 5 Homework projects worth 30 points each
- 2 exams worth 100 points each

Out of the possible 500 points in the class, the grades are as follows:

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A 100%-87.5%</td>
<td>500-437.5</td>
</tr>
<tr>
<td>B 87%-77.5%</td>
<td>437-387.5</td>
</tr>
<tr>
<td>C 77%-67.5%</td>
<td>387-337.5</td>
</tr>
<tr>
<td>D 67%-56.2%</td>
<td>337-281</td>
</tr>
<tr>
<td>F 56%-0%</td>
<td>280-0</td>
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</tbody>
</table>

Extra Credit: Individual extra credit projects are not offered in this class.

Class Participation: I do not take roll for each class but you are expected to attend class and to participate in out-of-class projects and self-directed quizzes. Each module quiz has a suggested due date but all quizzes are due by the last day of class on Dec 7, 2022, including the on-line Academic Honesty module.

There are five out-of-class projects that comprise 150 points of your final grade. Each project has a due date but I will accept late submissions that can earn up to 60% of the original point value.

Academic Honesty: Please note that academic misconduct (cheating) will NOT be tolerated. While cheating is sometimes obvious, in other cases students have questions about what might violate academic
honesty protocols. To address these concerns, the university has created an academic honesty module which I have included on the class Canvas page and which has an associated quiz. That quiz is required by Aug 31, 2022 and will contribute up to 13 points to your final grade.

I allow collaboration on out-of-class projects and module quizzes. However, collaboration is not allowed during the midterm and final exams, although the exams will be open-book, open-internet, open-note.

Grade Grievances: You have one calendar year from the date the grade is assigned to initiate any grievance.

Make-up Exams and Tardy Projects: Make-up exams are generally not offered. The two exams will be offered online through Canvas and will be open book, open note, open internet (but you are not to collaborate with each other). Any homework project turned in late can earn a maximum of 60% of the project’s original value.

ADA Compliance: As a faculty member, I am required by law to provide “reasonable accommodation” to students with disabilities, so as not to discriminate on the basis of that disability. Student responsibility primarily rests with informing faculty at the beginning of the semester and in providing authorized documentation through designated administrative channels. I have also tried to make the Canvas website and posted notes to be ADA compliant. If you find problems accessing any of the documents or information on the course Canvas site, please let me know as soon as possible so that I can try to remedy the situation in a timely manner.

Cell Phones: I request that cell phones, beepers, pagers, and other communications devices be turned off or put into silent model during class.

Statement on Diversity: The Belk College of Business strives to create an inclusive academic climate in which the dignity of all individuals is respected and maintained. Therefore, we celebrate diversity that includes, but is not limited to, ability/disability, age, culture, ethnicity, gender, language, race, religion, sexual orientation, and socio-economic status.

Some important dates:

- Classes begin: August 22
- Labor Day: September 5 (No Class)
- Sep 14 & Sep 19: Video Lectures (No In-person Class)
- Fall Break: October 10 (No Class)
- Last Day to Drop: October 24
- Veterans Day: November 11 (No Class)
- Thanksgiving Break: November 24-25 (No Class)
- Classes End: December 7
- Exam #1: Due by Friday, October 23
- Exam #2: Due by Wednesday, December 14 [subject to change: see university exam schedule]
## Course Outline (Subject to Change)

<table>
<thead>
<tr>
<th>Topic</th>
<th>Book Chapter</th>
<th>Week</th>
<th>Quiz Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction</td>
<td>1</td>
<td>Week 1</td>
<td>Aug 27</td>
</tr>
<tr>
<td>Statistical Concepts &amp; Stata</td>
<td>2, 3</td>
<td>Week 2-3</td>
<td>Sep 10</td>
</tr>
<tr>
<td>Simple Regression Model: Derivation</td>
<td>4</td>
<td>Week 3-4</td>
<td>Sep 24</td>
</tr>
<tr>
<td>Simple Regression Model: Implementation &amp; Interpretation</td>
<td>4</td>
<td>Week 4</td>
<td>Oct 1</td>
</tr>
<tr>
<td>Simple Regression Model: Properties</td>
<td>4</td>
<td>Week 5</td>
<td>Oct 8</td>
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<tr>
<td>Simple Regression Model: Inference &amp; Hypothesis Testing</td>
<td>5</td>
<td>Week 6</td>
<td>Oct 15</td>
</tr>
<tr>
<td>Simple Regression Model: Diagnostics</td>
<td>4</td>
<td>Week 7</td>
<td>Oct 22</td>
</tr>
<tr>
<td>Multiple Regression Model: Derivation</td>
<td>6</td>
<td>Week 8</td>
<td>Oct 29</td>
</tr>
<tr>
<td>Multiple Regression Model: Implementation &amp; Interpretation</td>
<td>6</td>
<td>Week 9-10</td>
<td>Nov 5</td>
</tr>
<tr>
<td>Multiple Regression Model: Inference &amp; Hypothesis Testing</td>
<td>7</td>
<td>Week 10-11</td>
<td>Nov 12</td>
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<tr>
<td>Multiple Regression Model: Diagnostics</td>
<td>6.4</td>
<td>Week 12</td>
<td>Nov 19</td>
</tr>
<tr>
<td>Multiple Regression Model: Functional Forms</td>
<td>8</td>
<td>Week 13</td>
<td>Nov 26</td>
</tr>
<tr>
<td>Multiple Regression Model: Potential Problems</td>
<td>6.1, 6.7, 9</td>
<td>Week 14</td>
<td>Dec 3</td>
</tr>
<tr>
<td>Heteroscedasticity</td>
<td>17.6</td>
<td>Week 15</td>
<td>Dec 3</td>
</tr>
<tr>
<td>Autocorrelation</td>
<td>14.3</td>
<td>Week 16</td>
<td>Dec 10</td>
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</tbody>
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