Instructor: Victoria Woodard  
Email: vweber@nd.edu  
Phone: 440-376-2195  
Office:  
Office hours: 2:00 – 3:30 Monday/Wednesday; 10:00 – 11:20 Friday; and by appointment  
Logistics:  (Section 3): 11:30 – 12:20, MWF; Hayes Healy 127  
(Section 4): 12:50 – 1:40, MWF; Hayes Healy 127  

What to do to succeed in this course:  
1. Attend and participate in class every day.  
2. Read the textbook before coming to class. You don’t have to understand everything, but previewing the material can be helpful.  
3. Take notes actively (not passively)!  
4. Don’t be afraid to ask questions or seek extra help if you don’t understand what’s going on.  
5. You can text me for help, but remember to check your ND email every day!  
6. You aren’t taking this class alone. Find a study buddy in the class.  
7. Learn how you best study for exams, and actually study for exams!  
8. Do a little bit of work for the class every day. Don’t procrastinate doing your homework or cram for exams.  

Course Information  
A conceptual introduction to the science of data for students of business. Descriptive statistics: graphical methods, measures of central tendency, spread, and association. Basic probability theory and probability models for random variables. Introduction to statistical inference: confidence intervals and hypothesis tests. Many examples will be based on real, current business and economics datasets. Calculations will be illustrated in Microsoft Excel. Not eligible for science credit for students in the College of Science.  

Credit is not given if a student takes both ACMS 10145 and ACMS 10140 or ACMS 10145 and ACMS 10141. This course is proposed to satisfy one university mathematics requirement.
Essential concepts of probability and statistics are presented through real world problems involving business and economics, and to a lesser extent, sports and social science. Specific topics of coverage include:

- The concepts of populations and samples
- Graphical displays of categorical and continuous variables
- Elementary probability theory
- Bayes’ Theorem
- Discrete and continuous random variables including those following the binomial, Poisson, uniform, exponential, normal, or chi-square distributions
- Statistical inference including confidence intervals and hypothesis testing.

**Text Book**  

**WebAssign**  
All students should enroll at https://webassign.net/login.html using the course key nd_98701594

You can purchase an access code from the publisher’s website, or you can purchase the loose leaf textbook and/or access code at the bookstore. All students will need to purchase an access code to submit the online homework. If you do not have your materials yet, you should still enroll online to receive access for the first 2 weeks of the course (free access ends on 9/3/18).

**Calculator**  
All students will need a calculator that is not on their phones. Demonstrations will be done with a TI84.

Each student is expected to attend all lectures, but I neither take attendance nor count it as part of your grade. If you are absent from a lecture, you should get the missed notes from a classmate or from me during office hours. After reviewing the notes, you should visit my office hours or go to a help session if you have any questions. Students should bring their note outlines, a writing utensil and a calculator with them to every class.
While you are in my classroom, you will be respectful to your classmates. This includes, but is not limited to:

- Not playing games or sending messages on your laptop or cell phone.
- Not answering every question that is posed to the class.
- Give others a chance to think things through.
- Not making others feel like their questions are “stupid”.
- Encouraging your classmates to share an interesting thought or idea.

Course Assessment

There will be 13 homework assignments throughout the semester. All assignments will be completed in the online homework system, Webassign. See the tentative schedule below for the due dates.

- All assignments are due by 11:59 pm on the given due date. Please make sure to turn your homework in on time.
- If an assignment is completed in Webassign after the deadline, but within 24 hours of the deadline, a 20% reduction will be applied. No credit will be given to assignments completed after 24 hours past the deadline.
- Your lowest homework score will automatically be dropped at the end of the semester.
- You may come see me any time during office hours to get help with your homework (or anything else related to the course). You only need to make an appointment if you want to come see me during non office hour times.
- Student assistants will be available to help you with your homework on Mondays and Tuesdays from 7 to 9 pm in Hurley 154.

Homework is meant to be a learning tool, not a road block. You are strongly encouraged to work together on homework. However, I consider blatantly copying answers to be a violation of the honor code.
There will be 3 midterm exams during the semester. These will be combined section exams held at a time and place different from your normal course time. Please see the tentative schedule below to review these dates and times now. Exams will be graded and returned approximately one week after they are taken. After the exams are returned, students will have one week to submit any appeals for grading.

In the case of an appeal, the student must submit to Dr. Woodard, the exam and a written note explaining which question is being appealed and why (for example: the TA graded too harshly, the question was mistakenly marked incorrect, etc.). Dr.’s Woodard and Walsh will discuss the appeals and the decisions they make are final.

- Unexcused absences from an exam will result in a score of zero for that exam. An absence is considered excused only if written documentation is provided (e.g., a note from St. Liam’s, an e-mail from the athletic office, etc.). In the case of an excused absence, the exam will be rescheduled.

- Once an exam has started, the student must complete the exam. If a student falls ill during an exam, an accommodation will be made ONLY if the student goes straight to a medical facility and provides proof of the visit. In the case that the illness can be verified, an accommodation will be provided at the instructor’s discretion.

- No accommodations will be given for conditions such as test anxiety unless a student works through the ND Disability Services (DS) office. The semester exams are 75 minutes long and the Final Exam is 120 minutes. Extra time will NOT be granted unless the student has pre-arranged accommodations from the DS office. NO EXCEPTIONS.

- If a student is too ill to take the Final Exam during finals week, then the student must contact his/her academic advisor and get permission from the Mendoza College of Business Dean’s Office to receive an Incomplete grade for the semester. Students must take the Final Exam as scheduled or contact the dean as mentioned above if they are too ill. Students CANNOT take the exam as scheduled and then say “Please give me special consideration when grading my paper because I was sick”. We will ignore any such requests.
Students will be required to complete a cumulative final exam for the course. As with the midterm exams, this will be a combined section exam and will be held in a different room than is normally used. See the tentative schedule for the date and time of your final exam. The location will be provided once the University has found us a room.

All of the exam policies given above for midterm exams also hold for the final exam.

University Policies

The Notre Dame Academic Code of Honor Pledge is observed in this course. “As a member of the Notre Dame Community, I will not participate in or tolerate academic dishonesty.” Specifically, giving or receiving aid on an exam is a violation of the honor code. If a student is aware of cheating on an exam, he/she has the obligation to inform Professor Walsh. Also, we expect that students will work together on homework assignments, but simply copying answers from another student is regarded as an honor code violation for both students.

It is the policy and practice of The University of Notre Dame to provide reasonable accommodations for students with properly documented disabilities. Students who have questions about Sara Bea Disability Services or who have, or think they may have, a disability are invited to contact Sara Bea Disability Services for a confidential discussion in the Sara Bea Center for Students with Disabilities or by phone at 574-631-7157. Because the University’s Academic Accommodations Processes generally require students to request accommodations well in advance of the dates when they are needed, students who believe they may need an accommodation for this course are encouraged to contact Sara Bea Disability Services at their earliest opportunity. Additional information about Sara Bea Disability Services and the process for requesting accommodations can be found at sarabea/disabilityservices.nd.edu.
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<th>Week of</th>
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<td>Aug 19</td>
<td>Sections 1.1 - 1.5</td>
<td>Classes Begin</td>
<td>Intro to the Course</td>
<td>Sections 1.1 - 1.3</td>
<td>Sections 11.1 - 13.3</td>
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<td>Sections 3.1 - 3.2</td>
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<td>Sections 4.3 - 4.4</td>
<td>Sections 11.1 - 13.3</td>
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<td>Sept 2</td>
<td>Sections 3.1 - 3.2</td>
<td>Sections 4.1 - 4.2</td>
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<td>Sept 9</td>
<td>Sections 4.1 - 4.2</td>
<td>Sections 4.4 - 4.5</td>
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