

**QMB3200-2781 Quantitative Methods for Business: Fall 2023 mod 1**  
**Course Dates: August 14 – October 6**

**My Professor**

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Course Credits 3  
Notes Students should anticipate a response to MyCourses email within 24 hours. But I typically respond very quickly. If you have questions not related to this class, please send correspondence to the SPC email account above. Course grading is normally complete within 2 days after submission due date. Email availability 7 days per week.

**Textbook, Pearson Lab & XLStat (required)**



**Business Statistics, 3<sup>rd</sup> Edition, Robert A. Donnelly, Jr. Publisher: Pearson.**

**Looseleaf text Bundled with (digital access code) MyStatLab and (digital access code) XLStat. ISBN 9780136651406**

Alternatively, **MyStatlab** (digital) access, including **eText**, can be purchased (i.e. **No physical textbook**). ISBN 8220117020896

**XLStat** (digital access code) is offered separately through the SPC bookstore, but a separate purchase is not required if obtaining the bundled package with ISBN ending 1406. An exception is if students would like XLStat available on a second computer. Each access code is good for one year and for one computer only. ISBN 8220128194760

## Software Requirements

Reliable computer and internet access are needed for the course. Below are the additional software tools required.

**Pearson MyStatLab:** See registration instructions in MyCourses (*Hardware & Software Requirements* submodule). Access is available via one of the purchase options in the previous section. This is where homework, Excel projects and the final exam will be completed. Once registered, access the website at [www.pearsonmylabandmastering.com](http://www.pearsonmylabandmastering.com) or [www.mystatlab.com](http://www.mystatlab.com)

**Excel** will be utilized for statistical analyses with most textbook chapters. Excel 2016, and other Microsoft Office software, is free for SPC students: <https://go.spcollege.edu/microsoft/>

**Data Analysis Toolpak** will need to be added for your Excel software. See instructions in MyCourses *Hardware & Software Requirements* sub-module.

**XLStat:** This is an additional add-in data package for Excel to perform advanced statistical analyses. A digital access code is included with the textbook bundle option in the previous section. This application will primarily be used for the second half of the course, including the final exam. Students should save the **License Key** for their access should they need to reload the application to their computer later in the course.

## Course Description

This course presents quantitative approaches in business decision making. It provides students with a conceptual understanding of the role that management science plays in the decision-making process. This course emphasizes the application of quantitative techniques to the solution of business and economic problems.

**Prerequisites:** STA2023 with a minimum grade of C. Admission to BUS-BS, MGTORG-BAS or INTBUS-BAS with a minimum grade of C.

## Course Objectives

1. The student will apply the conceptual framework of quantitative methods in the decision-making process.
2. The student will analyze real world business applications.
3. The student will calculate probability distributions, expected value, and sampling.
4. The student will apply the principles of forecasting using past data and time series analysis.
5. The student will perform hypothesis testing.
6. The student will examine simple linear and multiple regression models.

## Course Structure

The course will review topics presented in STA2023 and quickly move on to applied business topics in the text, such as a variety of hypothesis tests, simple correlation, multiple regression and forecasting. Heavy emphasis is placed on weekly textbook readings, which are followed up with a variety of practical

application homework questions via the Pearson MyStatLab. Excel based projects are also assigned in the lab for most weeks. Review the **Assignment Schedule & Due Dates** document in MyCourses for a weekly breakdown of covered textbook chapters and related assignments.

Additional learning resources are available in the lab, such as **Sample Tests and Quizzes** (in Assignments menu); **StatCrunch** (text data sets); **Study Plan** for additional practice with select chapter questions, **eText** and the **Video & Resource Library**. These resources, available in the menus on the left side of the lab page, are optional (not graded) but students are encouraged to take full advantage of them to enhance their understanding of the material.

The weekly modules in **MyCourses** also provide a number of resources for students. These include PowerPoint presentations, chapter notes, Excel data files referenced in the text and homework tips and videos.

Statistics courses normally incorporate one of many available data analysis software programs, such as Minitab, eViews or SPSS. But **Excel** can also be used for many data analysis applications and will be utilized in this course. In some cases, especially in later chapters, a quicker and more advanced application is needed via an 'add-in' for Excel. In this course students will utilize **XLStat** for these cases.

## **Grading**

Standard grading scale will be used (see below). Total points will be accumulated from chapter homework assignments, videos, quizzes, one project and a final exam.

90 – 100% = A

80 – 89% = B

70 – 79% = C

60 – 69% = D

<60% = F

*A small 'curve' to final grades may be applied at instructor's discretion and is not guaranteed.*

## **Assignments**

Weekly assignments are detailed for students in the **Assignment Schedule and Due Dates** module. It is recommended that the document be printed and used as a Quick Reference Guide for the course. It should be referenced frequently to avoid missing any due dates. All assignments will be completed in the lab. The assignments and their grading weights include the following:

50% Homework (12 lab assignments, 131 problems, 297 points)

25% Excel Projects (5 assignments, 10 problems, 100 points)

25% Final Exam (25 questions/problems, 100 points)

Note that the respective weights are applied to the points based on assignment category. See the Course Content in MyCourses for more details about these assignments.

## Late Assignment Policy

Exceptions to meeting assignment deadlines require an official documented excuse (i.e. family death, doctor's note, etc.). Please note that computer problems, minor sickness, travel, and lack of planning do not constitute an excuse for missing a deadline. This may mean you have to use computers on campus or somewhere other than your home or submit an assignment to the instructor's college email account if MyCourses is down (should the need arise). Again, there are no exceptions to this rule, so be sure to view all of the content and expectations within each weekly module ahead of time to confirm you can meet them for proper completion of this course.

## Time Commitment

This is a 3-credit course conducted over 8 weeks. In order to meet accreditation standards, on average, students should expect to spend between 15 to 18 hours per week on course activities and assignments. Spending less time would be insufficient for success in this course.

## Attendance Policy

Participation in the course is essential to avoid being withdrawn for non-attendance. Participation is defined as reading and preparing for weekly lessons (especially prior to blended class meetings). It also includes completing and submitting ALL assignments on time and taking part in all other course communications in a timely manner. The **Assignment Schedule and Due Dates** sheet provides an overview of all assignments and due dates for the course, which are required for active participation.

Excused absences, of course, will not count against students. However, students must contact the professor to make appropriate arrangements, and provide supporting documentation accordingly. Advance notice should be given to the instructor whenever possible to arrange for alternatives.

This course will adhere to an **80-70 rule for participation**. This means that at least 80% of the lab assignments need to have been *attempted* and at least 70% of the questions/problems within those assignments also *attempted* in order to be marked 'attended' when attendance is required. *Attempted* means there is a graded result (correct or incorrect). Attendance is reported to the college after Week 1, Week 2 and the 60% point of the course (typically Week 5). Note that the 80-70 rule is applied to all previous lab assignments up to that date, not just that particular week.

Lack of attendance (participation) can result in students being administratively withdrawn. Students are given a W in a course for insufficient participation in Weeks 1 and 2. A grade of WF is given for insufficient overall participation through the 60% point of the course (see last date to withdraw in the academic calendar to avoid this issue as it can result in serious financial aid and GPA consequences). Students in their third attempt at completing the course will be given a WF grade at any point in the term if failing to meet attendance requirements.

## **Academic Integrity**

Academic honesty and plagiarism fall under the Academic Honesty Policy of the college. The College of Business has always had a "0" tolerance policy for academic dishonesty and if the student is in violation, an "F" in the course can be applied.

Understand that not properly giving credit to the sources used in work, even when paraphrasing, is considered plagiarism and can result in not only a "0" for that assignment, but an "F" in the course. Also applicable is copying and/or submitting Excel work that is not the original work of the current student.

**Please note that utilizing so-called tutor sites like Course Hero, Chegg, Bartleby and Quizlet is strictly prohibited in this course. Students may not post documents, screenshots or other questions for help (or sharing) to these websites or similar ones (before or after the assignment is due). These sites do nothing more than facilitate cheating. Students should seek out additional help from their professor, the lab study resources and/or SPC tutors, if available. Use of these sites will result in a zero for the applicable assignment(s) and may also result in an automatic 'F' grade in the course, particularly when assessment or Excel information is shared.**

## **Learner Support**

View the [Accessibility Services](#) site.

View the [Academic Support and Student Success](#) site.

## **Additional Resources**

As an SPC student it's vital that you know Titans Care. You can access resources through SPC's Student Assistance Program (SAP) (<https://mycoursesupport.spcollege.edu/student-assistance-program>), a collaborative resource for students with mental health or general life issues. SAP provides help and education in suicide prevention, mental health, substance abuse awareness and more. It is SPC's belief that supporting mental wellness is everyone's charge and that one loss as a result of substance abuse, mental illness, or suicide is one too many. If you or a loved one are considering suicide, please call the National Suicide Prevention Lifeline at 1-800-273-8255.

See additional support and other resources in the SPC Resources section of your *Course Home* page.

## **Syllabus Addendum**

Syllabus addendum information can be found [Here](#). Once on the page, click the Additional Addendum link above the "How to be a Successful Student" title. The link will enable a PDF document download. General attendance information and Covid-19 guidelines are included in the document.