

**Course Number & Title** – MAT218 Applied Business Mathematics

**Department** – AUD – Arts & Sciences

**Contacting Your Professor**

1. To contact your professor, select “Inbox” from the global navigation bar on the left-hand side of your screen. After selecting “Inbox,” click the pencil in the top right of your screen to begin your message. Type in your professor's name and your message before sending.

**Delivery** – Online

**Course Description** – This course will have a business focus and make use of quantitative analysis to analyze real-world problems. Business leaders must have an understanding of mathematics to collect, organize, and analyze critical data. This course applies students’ interpretation of mathematical concepts to common business usage covering such topics as percentages, interest, trade, bank and cash discounts, payroll, time value of money, and business loans. (3 credits)

**Course Prerequisite(s)** – None

**Student Learning Outcomes** – As a result of this course the student will do the following:

1. Demonstrate an ability to reconcile and analyze various banking statements and services; solve a variety of interest formulas; and calculate payroll taxes.
2. Analyze a set of data using appropriate techniques.
3. Explain and calculate graphical and numerical methods of statistics, probability scenarios, statistical inferences, and regression analysis.
4. Derive a conclusion from data to guide decision making within an organization.
5. Utilize calculations to analyze investments, business and consumer loans, and charge accounts.

**Course Requirements**

1. *Textbook(s)* – Book information and a price comparison tool can be found at <https://www.lbcbookstore.com/>. Click on “Compare Textbook Prices” in the middle of the page. Here you will find the bookstore’s prices, digital options, plus Amazon and other online retailers.
  - a. Brechner, Robert and George Bergeman. *Contemporary Mathematics for Business and Consumers*. 7th Edition. Stamford: Cengage Learning. 2014. ISBN: 978-1285189758
2. *Materials*
  - a. A functioning webcam or smartphone with camera capabilities will be required for some activities in the course.

### 3. *Assignments*

- a. **Blog:** Throughout the course you will write a blog to assist you in reflecting on and communicating key course readings and concepts. This provides the opportunity to practice sharing your thoughts with a wider audience than just your professor and develop lifelong communication skills. Further details will be provided in the course site. (SLOs 2, 3)
- b. **Discussion Forums:** Discussions will take place throughout the course, typically in response to a reading, video, or set of questions provided by the instructor. These discussions are meant to build and enhance the learning community as we interact with each other as a class. As this is the case, discussion posts will not be accepted late. Specific instructions will be given in the course. (SLOs 1-3, 5)
- c. **Homework:** Practice problems from the textbook are assigned weekly to help students reinforce the lessons and strengthen their comprehension and skills. Showing all work is a key component to the homework assignment. Further details will be given in the course. (SLOs 1-5)

### 4. *Exams and Quizzes*

- a. **Tests:** Tests will be a compilation of real-world scenarios that will require you to analyze and synthesize the information and data. Details will be provided in the course. (SLOs 1, 2, 4)
- b. **Final Exam:** The final exam will be a summation of the course. You will be given various business situations and will be tasked with analyzing and synthesizing the information and data. More information will be given in the course. (SLOs 1-5)

### 5. *Extra Credit*

- a. There are no extra credit opportunities for this course.

## Course Procedures

1. *Course Practices* – This online course uses readings, discussions, and other resources and activities to aid and measure the learning of its objectives. Work through the weeks in sequential order, completing the learning explorations and assignments. Please take these opportunities to interact with the instructor and fellow students about the course content, the learning experience, and the relationships between the material and one's own experience.
2. *Participation Policy* – Attendance and participation for this course take the form of completing of all readings and assignments in a timely manner, contributing to discussions with charity, and actively collaborating with fellow students when required.
3. *Grading Policy, Rating Scale, Use of Rubrics, etc.*

<i>Excellent</i>	A	=	94–100		B-	=	80–83		D+	=	67–69
	A-	=	90–93		C+	=	77–79	<i>Passing</i>	D	=	64–66
	B+	=	87–89	<i>Average</i>	C	=	74–76		D-	=	60–63
<i>Good</i>	B	=	84–86		C-	=	70–73	<i>Failure</i>	F	=	0–59

The weight of each assignment in relation to your final grade is allocated in the following grading categories:

Blog	10%
Discussion Forums	10%
Homework	10%
Test	45%
Final Exam	25%

4. *Late Assignment Policy* – There is no late work accepted for this course.
5. *Make-up Policy* – There is no make-up policy for this course.
6. *Ally Center Statement* – The Ally Center is LBC | Capital's hub for academic services, resources, and accessibility. The academic services include disability services, writing services, and academic mentoring services and are available at no additional cost. To schedule an online or on-campus appointment, or for information regarding resources, locations, and hours of operation, visit [lbc.edu/ally](http://lbc.edu/ally).

- a. *Disability Services* – LBC | Capital is committed to creating an educational environment that is inclusive and accessible, in compliance with the guidelines of the ADA and Section 504 of the Rehabilitation Act. Students choosing to disclose a disability must contact the Disability Services Office to discuss reasonable accommodations.

After speaking with the student and reviewing documentation, reasonable accommodations will be determined. It is in the student's best interest to contact the Disability Services Office as early as possible prior to each new term since professors cannot provide accommodations without verification from the DSO and accommodations cannot be applied retroactively. More information and disclosure forms are available at [lbc.edu/ally](http://lbc.edu/ally).

Please note: Students should register with the Disability Services Office each term for which accommodations are desired; accommodations from the prior semester are not automatically carried over.

The Disability Services Office can be reached at 717.560.8200 ext. 5383 or [DSO@lbc.edu](mailto:DSO@lbc.edu). The confidential fax line is 717.560.8261.

- b. *Writing Services* – The Writing Center is available to help any LBC | Capital student with writing assignments from any course. Students can schedule a one-on-one appointment with professional personnel or peer mentors at any point in the writing process. Writing Services include: assistance in brainstorming and outlining, development of ideas, critique of partial or full drafts, and/or review of formatting and citations. Appointments are available both on campus and online. A variety of writing resources are available at [lbc.edu/ally](http://lbc.edu/ally).

Writing Services can be reached at 717.560.8200 ext. 5389 or by email at [WritingCenter@lbc.edu](mailto:WritingCenter@lbc.edu).

- c. *Academic Mentoring Services* – Academic Mentoring Services (AMS) provides academic services at no cost to any current undergraduate LBC student. Professional personnel and peer mentors come alongside students to assist with major projects, time management, review of course content, test-taking skills, and study strategies. A variety

of academic resources are available at [lbc.edu/ally](http://lbc.edu/ally).

Students may make academic mentoring appointments by phone at 717.560.8200 ext. 5389 or by email at [AMS@lbc.edu](mailto:AMS@lbc.edu).

d. *Contact Information*

Location	Email	Phone
Lancaster	<a href="mailto:AllyCenter@lbc.edu">AllyCenter@lbc.edu</a>	717.569.7071 ext. 5389
Philadelphia	<a href="mailto:AllyPhilly@lbc.edu">AllyPhilly@lbc.edu</a>	215.329.5400 ext. 5753
Washington D.C.	<a href="mailto:AllyDC@lbc.edu">AllyDC@lbc.edu</a>	301.552.1400 ext. 5806
Online	<a href="mailto:AllyCenter@lbc.edu">AllyCenter@lbc.edu</a>	717.569.7071 ext. 5389

7. *Academic Integrity Statement* – As followers of Christ, we need to be fully committed to honesty and truthfulness in all aspects of our lives, including in our academic lives. Therefore, academic dishonesty will not be tolerated in any way. Students are responsible to familiarize themselves with LBC's Academic Integrity Policy and adhere to it. It is located in the Student Handbook.
8. *Statement on Self-care* – College in general is a rich and fulfilling experience, full of opportunities for students. Along with this abundance of opportunities comes the challenge of maintaining a healthy life balance characterized by productive tension, a sensible schedule, and time for rest. Productive tension, at times, can be compounded by unexpected life challenges, causing unproductive levels of stress. This can lead to feelings of sadness, increased anxiety, and an overall lack of focus. For this reason, LBC | Capital strongly encourages students to care for themselves physically, emotionally, and spiritually during each academic term and throughout their journeys. Everyone benefits by support in times of struggle so students are also encouraged to seek help promptly by talking with professors or other College staff about life challenges as related to academic performance and to seek advice regarding available supports inside and outside of the LBC | Capital community.

## Course Resources

1. *Technology Difficulties* – The Help Desk is available to help you with computer and technology problems and questions. Call 717.560.8200 ext. 4357 (HELP), email [help@lbc.edu](mailto:help@lbc.edu), or visit <https://www.lbc.edu/helpdesk>.
2. *Library Resources* – The library subscribes to numerous databases to provide access to scholarly and peer-reviewed journal articles, eBooks, newspapers, magazines, and much more. Online resources are accessible anywhere on campus or remotely 24/7 using your LBC username and password. To access these resources, go to <https://www.lbc.edu/library>. The library website also includes links for students to request research assistance:
  - ASK A LIBRARIAN is for information from an LBC librarian within 24 hours (Monday-Friday).
  - LIVE CHAT is for immediate assistance—usually from a non-LBC librarian.
  - REQUEST RESEARCH CONSULTATION is for arranging an appointment with a librarian, either in-person or online.