



The mission of Concord University is to provide quality, liberal arts based education, to foster scholarly and creative activities and to serve the regional community (<http://www.concord.edu/academics/>).

Course Prefix, Number and Title: MATH 304, Financial Mathematics

Course CRN # and Section: 20200, 01

Semester Taught (including year): Spring, 2019

Credit Hours: 3

Prerequisites: MATH 255, Calculus III

Course Time (if applicable): 11:00 – 12:15 TR

Building and Room Number (if applicable): S-102

Professor: Dr. W.R. Winfrey

Office Location: S-100C

Office Hours: 8:00-9:30, 2:00-3:00 TR

Email: wrwinfrey@concord.edu

Phone: 304-384-5217

Office Fax: 304-384-6225

College/Department Website

<http://math.concord.edu>

Course Description/Rationale: The course provides Mathematics majors with knowledge and skills that are required to pass the second preliminary examination for actuarial professionals.

Course Management System: None

Hardware/Software Needed: Computations for the class will be done using Excel, Matlab and the Texas Instruments BA II Plus Financial Calculator. Excel and Matlab will be provided in the department's computer laboratory in S-102. The student will need to purchase a BA II Plus calculator.

Text requirements: The textbook is *Mathematical Interest Theory* (Second Edition) by Leslie Jane Federer Vaaler and James W. Daniel, ISBN: 978-0-88385-754-0

Concord University Educational Goal(s) Skills 1-7; Knowledge 4, 7; Attitudes 7.

National Standards. Meets most requirements for the second preliminary examination of the Society of Actuaries

Specific Learning Outcomes Knowledge of the following

- Growth of money (interest)
- Equations of value and yield rates
- Annuities
- Loan repayment
- Bonds
- Stocks and financial markets
- Arbitrage, interest rates and derivatives

Course Requirements

The course will be a mixture of lectures, in class assignments, homework and tests.

Grading Policy and Scale, Make-up Policy, Late Work

No make-up tests will be given for the midterms. If you have a valid reason for missing a midterm test, your grade on the final examination will be substituted for that of the missed test. Homework constitutes 20% of the course grade, the tests constitute 60% of the course grade, and the final examination constitutes 20% of the course grade. The grade scale: A = 90 to 100, B = 80 to 89, C = 70 to 79, D = 60 to 69, F = below 60. If you have taken all of the tests, your course grade will not be lower than your final examination grade. Late work will not be accepted unless the instructor is notified ahead of time.

Course Timeline (Schedule of Assignments/Assessments/Presentations)

Time permitting, I hope to give four tests: one at the end of chapter 2, one at the end of chapter 4, one at the end of chapter 6 and one at the end of the semester. I reserve the right to modify this schedule if it seems appropriate.

Accessibility/Accommodations:

Concord University is committed to responding to the needs of students with disabilities as defined by the Americans with Disabilities Act. Please inform your instructor at the beginning of the class semester if you have a disability and are requesting accommodations. It is your responsibility to self-disclose that you are requesting accommodations. The University and instructor will provide you with a reasonable accommodation. You should register with CU's Disability Services Office, located in the Athens campus Jerry and Jean Beasley Student Center, Bottom Floor, across from the Campus Post Office. The Disability Services Office phone is 304-384-6086 or you can email the Director, Nancy Ellison, at nellison@concord.edu for assistance.

Academic Dishonesty

Academic dishonesty is morally unacceptable as well as destructive to the learning and teaching atmosphere. Academic dishonesty includes the giving or receiving of improper help on examinations or assignments, falsifying documents, and plagiarism (the act of stealing and using, as one's own, the ideas or the expression of the ideas of another). Such dishonesty can lead to a variety of penalties — including but not limited to failure of assignment, failure of course, loss of institutional privileges, or dismissal from the University. (See University Catalog Academic Policies and Procedures.)

Concord University Honor Code

A Concord University Honor Code was approved by students, staff, faculty, administration, and the CU Board of Governors. The Code states:

"As a member of the Concord University Community I will act with honesty and integrity in accordance with our fundamental principles and I will respect myself and others while challenging them to do the same."

The Honor Code is intended to unite the Concord community behind a culture of honesty, integrity, and civility.

Class/Online Attendance Policy

Regular class attendance is part of a student's academic obligation at Concord. Irregular attendance may affect academic performance adversely and is detrimental to the atmosphere of a class. (See University Catalog Academic Policies and Procedures.)

Emergency Alert System

In an effort to increase safety and security on our campus, Concord University encourages everyone to register for instant text message alerts. Alerts will only be used for security and safety notices. All students, faculty, and staff are eligible to receive text message alerts on their cell phones or email alerts. Please contact the IT Help Desk for further assistance (304-384-5291).

Emergency Information

Emergency/courtesy telephones are located at the main entrance of each residence hall and at various other locations on campus. Emergency telephones can be identified by the flashing blue light and will provide the user with a direct link to Public Safety at the press of a button. To report an on-campus emergency, call 304-384-5357 or 911. The Office of Public Safety is located on the bottom floor of the Rahall Technology Center. For further emergency information go to:
<http://www.concord.edu/administration/office-public-safety>.

Inclement Weather Policy

As a general policy, the University will remain in normal operations during adverse weather conditions. In the event of severe weather conditions, the following may occur:

University Closure

No students or employees are to report.

Classes Cancelled

Students do NOT report BUT employees are expected to report to work at their normal time.

Operating on an Inclement Weather Delay

Under this schedule, all 8 a.m. classes will start at 10 a.m. Students and faculty will follow the Inclement Weather Schedule. (See <http://www.concord.edu/emergency-alerts> for Athens/Beckley Inclement Weather Schedules.)

**Announcements invoking the late schedule or other options referenced above are aired on area radio and television stations and are sent as text and email messages to those enrolled for this service.*

Student Conduct

In classrooms, online, laboratories, and during any activities that are part of course requirements, students are expected to observe reasonable rules of conduct.

Sexual Harassment & Assault

Federal law, Title IX, and Concord University policy prohibits discrimination, harassment, and violence based on sex and gender (Including sexual harassment, sexual assault, domestic/dating violence, stalking, sexual exploitation, and retaliation). If you or someone you know has been harassed or assaulted, you can receive confidential counseling support through the Concord University Counseling Center (304-384-5290). Alleged Violations can be reported non-confidentially to the Concord University Title IX Coordinator at 304-384-6327 or titleix@concord.edu. Reports to Campus Security can be made at (304-384-5357). As an employee at Concord University, I am a mandatory reporter which means I must report any sexual misconduct I am made aware of. This includes verbal or written (such as in an assignment) disclosures of sexual harassment or sexual assault.

Technology Services

Contact the CU Help Desk at extension 5291 from campus or 304-384-5291 off campus. You may also e-mail cuhelpdesk@concord.edu.

Syllabus Disclaimer

"This syllabus is subject to change based on the needs of the class. Please check it regularly."