MATH 100:06 – Quantitative Reasoning   **Spring 2022**

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Homepage: http://www.radford.edu/npsigmon
Course Homepage: http://www.radford.edu/npsigmon/courses/numtheory/math100.html
Office Hrs: 12:30 p.m. – 1:30 p.m. Tuesday, Thursday
                   (Other times by appointment)
Zoom Link: https://radford.zoom.us/j/8709794059

Optional Textbook: *Quantitative Reasoning* by C. Case, W. Case, Corwin, Mistele, and Sorensen
                   (Kendall Hunt Publishing). To purchase a copy of the e-textbook, please visit:
                   https://he.kendallhunt.com/product/quantitive-reasoning-0

Textbook Coverage: Sections 1.1-1.7, 2.1, 2.3-2.6, 3.1-3.3, 3.5-3.6, 3.8-3.10, 4.1, and other topics if time
permits.

Class Meeting Times: Tuesday, Thursday 11:00-12:15 p.m. in Davis 212.

Test Dates: To be announced (There will be three major tests and a final exam).

Final Exam Date: Thursday, March 7th at 10:15 am in Davis 212.

Grading Policy: 60 % 3 Major Tests
                   20 % Final Exam* (Comprehensive and multiple Choice)
                   20 % Hand written Homework, in-class work, WeBWorK Assignments

* Since the final exam is cumulative, the final exam grade, if it is higher will replace the lowest
test score of the three major tests.

Grade Scale: 90-100   A
                   87-89   B+
                   80-86   B
                   77-79   C+
                   70-76   C
                   67-69   D+
                   60-66   D
                   < 60   F

          A "-" grade will be awarded at the discretion of the instructor

Prerequisite: High School Algebra

"Makeup" Test Policy: Approval for making up a missed test should be given prior to the scheduled test.
The makeup test must be taken within one week following the scheduled test. Documentation is required for
all make-ups. Except for extraordinary circumstances, approval for a makeup test will not be granted if the
scheduled test has already been given.

Attendance Policy: Attendance is a requirement in this class. If you miss a class, you are responsible for
making up any missed work. Attendance will be taken each class period. Attendance means
RESPONSIBILITY – I look much more favorably on students who have good attendance habits.

Late Homework Policy: Late hand-written homework will be accepted but only limited credit will be given. I consider late homework to be homework turned in later than 5:00 p.m. of the day the assignment is due. The maximum number of points a student can receive for a late homework is ten points lower than the minimum grade of all students who have turned in the assignment on time. For example, if an assigned homework is worth 80 points and the lowest score of the on-time assignments is 60/80, the maximum grade a student can receive for the assignment is 50/80. No exceptions to this policy will be granted except for extreme circumstances that require official university documentation or a predetermined arrangement between the student and myself that is done prior to the assignment due date. Late assignments must be turned in within one class day of the assignment due date to obtain any credit.

Resources for Assistance: The Harvey Knowledge Center located in McConnell 441, is open to all students Monday through Friday from 9 a.m. until 6 p.m. They have flexible scheduling for weekends. Certified, trained tutors provide face-to-face help with basic study skills, writing, and content-specific material. An appointment is necessary and can be made by calling 831-7704 or emailing hkc@radford.edu.

Laptop/Cell Phone/Electronic Device Policy: No cell phones, computers, or other electronic devices are to be used in this class when these devices are not being used in a way that is conducive for learning what is being taught in class during a particular day or time. Determining what is conducive will be left up to the instructor's discretion. The instructor retains the right to ask a student to leave class if they exhibit this or any other behavior that is a distraction to learning for other students in the class.

Catalog Course Description: Focuses the mathematical needs of students in majors where the broader applications of foundational mathematical topics is more important than the development of more sophisticated mathematical tools. Topics include mathematical modeling, descriptive statistics, financial mathematics, and voting theory. **Note(s):** Will not satisfy requirements for a major in mathematics. Credit for MATH 100 may not be received after receiving credit for a higher numbered MATH course.

Student Goals and Objectives of the Course: Intended primarily as a quantitative literacy course for students whose professional interests and pursuits require them to be able to understand and analyze the social and physical world in its many quantitative aspects. Students will acquire knowledge and techniques that permit them to understand and employ mathematical methods for measuring, assessing, modeling, and forecasting. Additionally, students will be able to comprehend quantitative claims and data, and be armored against the intentional or unintentional use of statistics or argument to deceive and distort. Students will be able to use the tools of mathematics and quantitative reasoning to conceptualize and solve problems.

Students will be able to:
a.   identify and interpret relationships among numeric, symbolic, and graphical information
b.   generate mathematical models using numeric, symbolic, and graphical information for use in real-world applications
c.   solve problems using numeric, symbolic, and graphical information

Disability Policy: Students seeking academic accommodations under the Americans with Disabilities Act must register with the Center for Accessibility Services (CAS) to determine eligibility. Students qualified for academic accommodations will receive accommodation letters and should meet with each course professor during office hours, to review and discuss accommodations. To begin the registration process, complete a Student Registration Form and submit documentation to PO Box 6902, Radford, Virginia 24142, or deliver to the Russell Hall, Room 325, by fax to 540-831-6525, or by email to cas@radford.edu (See documentation guidelines). For more information, visit the Center for Accessibility Services (CAS) website or call 540-831-6350.

Honor Code: By accepting admission to Radford University, each student makes a commitment to understand, support, and abide by the University Honor Code without compromise or exception. Violations of the University Honor Code include (but are not limited to): lying, stealing and unauthorized possession of property, cheating, multiple submission, and plagiarism. This class will be conducted in strict observation of the honor code. Refer to your Student Handbook for a complete copy of the University Honor Code.