

# Course Syllabus



## MATH 1053 ONLINE - QUANTITATIVE REASONING COURSE SYLLABUS

DIVISION OF SCIENCE

SOUTHERN WESLEYAN UNIVERSITY

### Catalog Description:

Quantitative Reasoning is a critical skill that is necessary not only in many different disciplines but also in daily life. This course is about using math in practical situations that come up every day. Examples include balancing a checkbook, calculating accrued interest, and understanding what a false positive for an MRI test implies. The mathematical concepts covered in the course include arithmetic, algebra, geometry, and statistics. Prerequisite: Level of math proficiency as determined by math SAT/ACT scores.

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### Course Description and Context:

The aim of this course is to assist in developing understanding of and facility with basic problem solving skills with emphasis on practical applications to everyday life.

It is the position of Southern Wesleyan University and your instructor that all truth comes from God, and hence mathematics content is a representation of the inherent order that the Creator has placed in His creation. Furthermore, it is my belief that man, as created in the image of God, has been permitted to discover the truth manifested by the orderly creation he observes. What we learn and how we learn it reflects, although imperfectly, God's likeness manifested through us.

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### Student Learning Outcomes:

After completing the course, the student should be able to:

1. Apply problem solving strategies to solve problems.
2. Solve problems involving integers and exponents using the correct order of operations.
3. Solve and graph linear equations and systems of equations.
4. Solve consumer math problems involving compounded interest and monthly payments.
5. Use metric units when calculating length, area, and volume.

6. Apply formulas to determine perimeter, area, surface area, and volume.
7. Explore fundamental counting techniques and theoretical probability.
8. Analyze data by computing measures of central tendency.
9. Recognize and appreciate the ability of mathematics to teach us about God, about his creation and faithfulness, and to discover evidence for Himself that lies in the orderly and rational world around us.

### **MyMathLab Access Code (required):**

This code allows access to the online MyMathLab homework and quiz system. The access code also allows access to the full (online) eText version of our textbook (but only for the duration of our course). The code may be purchased through [swu.ecampus.com](http://swu.ecampus.com) or online directly from Pearson while setting up your account (see p. 6). Beware buying from unconventional sellers—there is always a risk that it has been opened and used! A used access code cannot be used again.

**Textbook:** Angel, Abbott, and Runde, *A Survey of Mathematics with Applications*, 11<sup>TH</sup> EDITION 2020 (Included with MyMathLab access)

### **Scientific or Graphing Calculator (required) – Texas Instruments TI 30XS, 83 or 84**

### **Accreditation**

Southern Wesleyan University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award associate, baccalaureate, and master's degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, GA 30033-4097 or call 404-679-4500 for questions about the accreditation of Southern Wesleyan University.

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### **Evaluation Criteria:**

Student achievement will be assessed by the following measures:

- **Assignments** will be done online through Pearson's MyMathLab. Students are required to purchase an access code in order to log in. It is essential that you have a laptop or tablet compatible with My Math Lab. Assignments are due by 11:59 pm on the assigned due date. Various learning tools are available while working Assignment problems: for example, (i) **Help Me Solve This** guides you through the current problem, step by step, and gives you a different problem afterwards to try yourself; (ii) **View an Example** allows you to view a different example which is worked out for you step by step in hopes that you can apply the same steps to your current problem. Problems may be attempted as many times as necessary to obtain a correct answer, and problems may be practiced even after the due date (with no effect on the score). Assignments contribute 34% to the course average.

- **Seven tests** will be given. Tests will be in MyMathLab each week. They are not timed and you will have two attempts for each test. I will take the highest of the two grades. It is imperative to stay on top of assignment (by all means, take notes on the problems you work and study these notes for the tests). The seven tests will constitute 56% of the course average (8% each).
- **Discussion** board will count 10% of your grade. The discussion is in Yellowdig and is student-moderated. You earn points based off the questions you post and the answers you provide to another student's post.

Your final grade will be rounded to the nearest whole number and then determined

according to the following table:

<b>Percentage</b>	<b>Letter Grade</b>	<b>GPA</b>
95-100	A	4.0
90-94	A-	3.7
87-89	B+	3.4
84-86	B	3.0
80-83	B-	2.7
77-79	C+	2.4
74-76	C	2.0
70-73	C-	1.7
67-69	D+	1.4
60-66	D	1.0
0-59	F	0.0

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## Course Policies

## Attendance Policy

Regular attendance is a key to success in the course. Please refer to the Attendance Policy outlined in the Catalog for full details of the SWU policy on attendance.

Hybrid courses are a combination of online and classroom activities. Students are expected to attend all campus class meetings as well as to adhere to posted online deadlines for assignments. Face-to-face sessions are held once a week for three hours, and attendance is mandatory. Classroom attendance will be taken in class by the instructor.

Online attendance is based on completion of at least one designated assignment by the due date/time posted within the course site for each session. Online activities may include lecture, assignments, readings, discussion forums, and assessments (e.g. quizzes, tests).

## Communication

The course site (Canvas) and SWU email are the primary tools for class communication, assignments, handouts, etc. All participants must have access to the course site and SWU e-mail and are expected to access them on a daily basis.

While it is important to maintain good communication with the instructor, Internet connectivity problems and home computer problems are not considered adequate excuses for missing assigned class work.

## Technology Requirements

To be successful in this course, all participants are expected to ensure their technology equipment meets the [recommendations \(http://www.swu.edu/about-swu/technology-services/computer-recommendations/\)](http://www.swu.edu/about-swu/technology-services/computer-recommendations/) provided by SWU's Technology Services.

Students requiring technical support related to their courses or other SWU-provided technologies should send an e-mail to [helpdesk@swu.edu](mailto:helpdesk@swu.edu) or call 864.644.5050.

## Academic Honesty

Honesty in all matters - including honesty in academic endeavors - is a valued principle at Southern Wesleyan University. It is the expectation of the university that all those joining the academic program will act with integrity in all matters.

No forms of academic dishonesty will be tolerated. Students are encouraged to help each other maintain these high standards. All academic dishonesty should be reported to the faculty directly. Faculty, upon evidence of academic dishonesty (cheating, plagiarism, or misuse of another's intellectual property), either by voluntary confession, report of another student, or on the basis of work submitted, must follow the procedure outlined in the Catalog (under *Academic Honesty*). This includes but is not limited to a zero for the work involved, 10% course grade reduction, or a failing grade for the course. Unresolved cases may be appealed using the Appeal Process outlined in the Catalog (under *Academic Honesty*).

## Accommodations for Students with Disabilities

Southern Wesleyan University is committed to providing equitable access to learning opportunities for all students. Accommodations can be made for students with disabilities, as outlined in “Services for Students with Disabilities,” found in mySWU’s Student tab under The Learning Center. Any student desiring accommodations must send the request and all documentation to the Academic Coordinator at the learning site where he/she attends classes. The Academic Coordinator will forward the materials to the Student Success Coordinator for Southern Wesleyan University.

### Students with Disabilities:

If you have a disability that interferes with your learning, test taking, or completion of assignments outlined in the syllabus, please contact **Tonya Strickland** (Rickman Library 224, [tstrickland@swu.edu](mailto:tstrickland@swu.edu) (<mailto:tstrickland@swu.edu>), 864-644-5036). She will help you secure the right documentation, know what accommodations are appropriate, and authorize me to accommodate your disability. She will disclose the information you request only to those whom you identify. Neither she nor your professors can authorize or provide accommodations **unless you specifically request accommodations each semester**. Documentation must meet the guidelines of the Americans with Disabilities Act. We want you to have equal opportunity to learn and a fair assessment of that learning. Your abilities, skills, and efforts should determine your success, not your disability.

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### Tips:

- At SWU, a “credit hour” is defined to represent (for the average student) 50 minutes of “class” time per week and 100 minutes of academic work in addition. Since this is a 3-credit-hour course, you should expect to spend 5 hours per week outside the classroom (watching video lectures, completing Assignment, studying for tests). And this is likely not the only class you are taking. Being a full-time student is a full-time job!
  - Mathematics is learned best by working problems. Working steadily and regularly increases your chance of success.
  - In our Canvas course, you will find any handouts and helpful files under Modules, and you will find all assignment due dates IN MY MATHLAB.
  - “Whatever you do, work at it with all your heart, as working for the Lord, not for human masters” (Colossians 3:23). This verse calls us to be responsible adults who manage our time and God-given resources well.
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### Pearson (MyMathLab) Access:

You will need to PURCHASE a MyMathLab Access Code in order to complete your assignments for this course. (DO NOT purchase a used code as it will not work). This code includes the E-book, so there is

no need to purchase a hard copy of the book. You will access your assignments through the MyLab and Mastering link IN CANVAS.

You may get Temporary Access without payment for 14 days. (You can pay for full access when temporary access expires.) Since Temporary Access is available immediately, there will be no extensions on deadlines due to the failure to purchase MyMathLab.

Use your SWU email address as your login name. Purchasing a MyMathLab access code is a requirement of this course (in lieu of a textbook) and temporary access is available on the first day of class. Assignments missed due to temporary access expiration may not be made up.

24/7 MyMathLab Technical Support Site: <http://247pearsoned.custhelp.com/>  
(<http://247pearsoned.custhelp.com/>)

## Course Summary

### Tentative Schedule

Note: Assignments are due by 11:59 pm ET on the due date. You will find due dates in MyMathLab.

Week	Assignment Schedule
Week 1	Sections 1.1 through 1.3, 2.1, 2.3 through 2.5 and Test 1
Week 2	Sections 5.1 through 5.6 and Test 2
Week 3	Sections 6.1 through 6.3, 6.5 through 6.7 and Test 3
Week 4	Sections 7.1 through 7.4, 8.1 through 8.4 and Test 4
Week 5	Sections 10.1 through 10.5 and Test 5
Week 6	Sections 11.1 through 11.5, 11.7, 11.8 and Test 6
Week 7	Sections 12.1 through 12.5 and Test 7

