

MATH 1010 Course Syllabus

Math for Liberal Arts, Online

INSTRUCTOR INFORMATION:

Name:

Office phone:

Office location:

Office Hours:

E-mail address:

COURSE DESCRIPTION:

An introductory mathematics course for non-science majors emphasizing applications. Topics include problem solving, sets, logic, algebra, probability, statistics, consumer mathematics, and finance. 3 credit hours.

PREREQUISITE:

Level 2 placement or higher in Math or concurrent enrollment in MATH 0825.

MATERIALS REQUIRED:

- Students must check with the Instructor before purchasing any materials.
- MyMathLab Access Code: ISBN 032119991X (Instructor course code and high-speed Internet access required). My Instructor's Course ID is: _____.
- Calculator: A calculator that can add, subtract, multiply, divide, raise to powers, and take square roots will be sufficient for this class. The TI-83/84 is recommended and will be used in notes and demonstrations.

MATERIALS STRONGLY RECOMMENDED:

- Textbook with MyMathLab: *Thinking Mathematically* with MyMathLab, Robert Blitzer, 6th, Publisher: Pearson, ISBN 9780321923233
- OR
- Textbook only: *Thinking Mathematically*, Robert Blitzer, 6th ed., Publisher: Pearson, ISBN 9780321867322

COMPUTER RESOURCES AVAILABLE:

- Tutorials: www.InterActMath.com (InterActMath) (high-speed Internet access required)

COURSE OUTCOMES:

Upon successful completion of this course, students will be able to:

1. Solve problems using mathematics, and determine if solutions are reasonable: Analyze and solve counting and probability application problems. Analyze and solve problems utilizing Venn Diagrams. Make use of inductive and deductive reasoning to develop problem solving skills and determine if solutions are reasonable. Differentiate types of sets, perform set operations, and apply set notation.
2. Apply mathematical concepts to solve real-life problems using formulas (deduction) and interpret the meaning of the solution: Create truth tables to determine the truth value of quantified statements, negations, conjunctions, disjunctions, and conditional statements and their combinations, and utilize these to verify the validity of simple three-statement arguments.
3. Construct meaningful connections (transfer of knowledge) between mathematics and other disciplines.
4. Apply technology for mathematical reasoning and problem solving: Apply technology to solve problems involving personal finance such as installment buying, home mortgage and investments.
5. Analyze data/graphs by using mathematical modeling and/or statistical reasoning: Organize data using frequency tables, histograms, and stem-and-leaf plots, find measures of central tendency and dispersion, and use concepts of normal distribution to analyze data.
6. Represent and translate numbers in different number systems of historical interest, and write and compute in number bases other than base ten.

TOPICS

- Inductive and Deductive Reasoning
- Estimation & Graphs
- Problem Solving
- Basic Set Concepts
- Venn Diagrams/ Subsets
- Venn Diagrams and Operations
- Set Operations with Three Sets
- Surveys and Cardinal Numbers
- Statement, Negations
- Compound Statements
- Truth Tables
- Equivalent Statements
- Arguments
- Early Positional Systems
- Different Number Bases
- Computations
- Fundamental Counting Principal
- Permutations
- Combinations
- Odds
- Events Involving “Not” and “Or”
- Events Involving “And”
- Conditional Probability

- Sampling, Frequency Distributions, and Graphs
- Measures of Central Tendency
- Measures of Dispersion
- Normal Distribution
- Finance

COURSE POLICIES

Attendance:

Attendance will be taken by the submission of homework, discussions, and tests. Two assignments must be submitted to establish attendance and course participation. The required email sent to the instructor on the first day of class is the first attendance report.

This email must be sent through NS Online and can be accessed by clicking on the Email link or Classlist link above. This email should tell the instructor that the student has:

1. Completed the NSCC Online Orientation or attended a live session,
2. Watched the [video orientation](#) if needed,
3. Examined all content in the course, and
4. Verify that the course requirements are understood.

The first assignment is Discussion 1. These must be submitted by the end of the day on Friday of the first week of class. You must also have registered for MyMathlab by the end of the first week of class.

- Report Course Attendance to your instructor by submitting assignments in MyMathLab. Failure to do this will result in a failing grade.
- The homework is accessed by selecting " Do Homework" on the left navigation bar after login to MyMathLab. Complete homework assignments for each course section by the due date listed.
- Students are expected to view the MyMathLab video lectures and complete the assigned problems, on time, no exceptions. Students are also expected to complete Test Reviews and course Discussions by accessing this NS Online website and submit them on or before the posted due dates. Tests must be taken on campus at the campus testing center by the dates listed on the Assignments, Instructions and Schedules links under Content.
- [Netiquette](#) rules when communicating online must be observed.
- Tests and final exam are only accessible in the Testing Center on the main campus and at all other campus sites. The tests must be taken **ON** or **BEFORE** the due date listed on the Course Outline and on the Schedules links. Submitting homework, discussions or testing on the last possible date indicates that a student is behind schedule and is in jeopardy of not successfully completing the course. Extensions on the submission deadline dates will not be granted for any reason.
- Take tests per the schedule. The student can obtain test grades within one week of receipt via NS Online by selecting the "Grades" tab. NOTE - If a student submits a test at an off-campus testing center, there may be a delay in grade posting.

All requirements must be completed to receive attendance credit for the course by the due date. Failure to complete these assignments will result in receiving a "FN" or "FA" for the course.

Note:

The instructor will issue a student a failure-for-attendance grade (FA) if the student misses the deadlines (dates) on the course outline and in the Assignments, Instructions and Information for a two week period

without contacting the instructor. Per TBR policy, a student who does not officially drop or withdraw from a course, but receives a failing grade, will receive an "FA" if the last day of attendance was earlier than two-thirds into the part-of-term. That date equates to the last day to withdraw from the course.

An FN will be awarded to any student who never attends this course.

Method of Evaluation:

Students will have a possible of 1000 points in the course. This is the breakdown of the points:

17 Homework Assignments: 10 points each

6 Discussions: 10 points each

4 Tests: 160 points each

1 Final: 200 points

The final grade for the course will be based on 1000 points. There are more than 1000 points possible to earn in the course.

The final letter grade is based on the following scale:

A: more than 900 points

B: 899 - 800 points

C: 799 - 700 points

D: 699 - 600 points

F: below 600 points

Homework: Interacting with and exposure to the material is the best way to learn mathematics. See "Homework" on the Content page in NS Online for exercises to use to learn the material. The homework from the text will not be submitted for grading. The homework will be assessed through MyMathLab. MyMathLab will be used for drill, practice, and the exposure needed to learn the material. The exercises in MyMathLab have tutorial help by choosing "View an Example." In addition, MyMathLab has videos and animation to work with certain problems. **You must register for MyMathLab by the end of the first week of classes. Failure to register MyMathLab will result in you not having access to assignments. Permission will not be granted to register for MyMathLab after the registration deadline.**

Discussions: Submit discussions by selecting the "Discussions" link in NS Online or clicking on the "discussion" link within each module. Detailed instructions for how to submit discussions are in each module. You must complete the discussion before the due date to receive credit. Each discussion will be worth a maximum of 10 points.

Tests: The tests are accessed by selecting Quizzes link on the top, left navigation bar in NS Online. The tests are online and are password protected. The password will be entered by the test monitor at any of the NSCC testing sites. They are proctored and you must show a picture ID. All that is allowed in the testing area is a calculator and a pencil. Notes, textbooks, and communication devices are **NOT** allowed.

Test must be taken **ON or BEFORE** the due date listed on the Course Outline or at “Assignments, Instructions, and Schedules” in the Content links in our NS Online class website. Check your closest NSCC testing center for specific hours of operation. Failure to complete a test by the deadline will result in a 0 for the test. There will be no extension for any reason.

Final Exam: The final exam is also accessed by selecting Quizzes link on the top, left navigation bar. The same rules for tests apply to the final exam. The final exam must be taken **ON or BEFORE** the due date. There will be no extension for any reason. **If you don't take the final exam, you will receive an F for the course no matter if you were passing the course before the final exam.**

Technical Difficulties: You may experience technical difficulties related to computer connections or equipment during the term. This cannot be used as an excuse for failure to complete assignments or to participate online. It is your responsibility to locate the computer hardware, software and Internet connections necessary to stay connected and current with your course work online. You should seek alternate Internet connections available through the college's computer labs, the college's library, the public library, and any friends, relatives, or neighbors if your personal computer equipment is not working.

Communication: It is the student's responsibility to check D2L and MyNSCC email on a regular basis. These are the official communication channels between the college and students. Students are responsible for the information communicated through those channels. D2L contains specific course information and MyNSCC contains information important for other purposes.

Classroom Behavior: Nashville State Community College has a zero tolerance policy for disruptive conduct in the class. Students whose behavior disrupts the class will be subject to disciplinary sanctions. The instructor has primary responsibility for control over class behavior and maintenance of academic integrity. He/she can order temporary removal or exclusion from the class of any student engaged in disruptive conduct or conduct which violates the general rules and regulations of the College. Disruptive behavior in the class may be defined as, but is not limited to, behavior that obstructs or disrupts the learning environment (e.g., offensive language, harassment of students and professors, failure to cooperate in maintaining virtual classroom decorum, etc.) This policy applies to email, discussion board, and chat room, if implemented.

ADA Statement: Nashville State complies with the Americans with Disabilities Act. If you wish to request any accommodation(s) for this class, contact the Access Services Coordinators at 615-353-3721 or 615-353-3741. Also notify your instructor as soon as possible. Such services must have proof of documentation that is not over three years old.

Academic Dishonesty: Any form of academic dishonesty, cheating, plagiarizing, or other academic misconduct is prohibited. "plagiarism may result from: (1) failing to cite quotations and borrowed ideas, (2) failing to enclose borrowed language in quotation marks, and (3) failing to put summaries and paraphrases in your own words" (A Writer's Reference 331). Academic dishonesty may be defined as, but is not limited to, intentionally trying to deceive by claiming credit for the work of another person, using information from a web page or source without citing the reference, fraudulently using someone else's work on an exam, paper, or assignment, recycling your own work from another course, purchasing papers or material from another source and presenting them as your own, attempting to obtain exams/materials/assignments in advance of the date of administration by the instructor, impersonating someone else in a testing situation, providing confidential test information to someone else, submitting the same assignment in two different classes without requesting both instructor's permission, allowing someone else to copy or use your work, using someone else's work to complete your own, altering documents, transcripts or grades, and forging a faculty/staff member's signature. In addition to other

possible disciplinary sanctions that may be imposed through regular college procedures as a result of academic dishonesty the instructor has the authority to assign an F or a zero for the exercise, paper, or examination or to assign an F for the course. According to the college catalog, conduct of an unacceptable nature may be reason for dismissal from the college. Cheating is dishonest and constitutes unacceptable behavior. No notes or review sheets are allowed to be used on a test. If notes or review sheets are found during testing, or a student is cheating, a course grade of "F" will be recorded.

Withdraw Date: The last day to withdraw from this course without penalty is published in the academic calendar of the current catalog.

Course Outline:

See "Assignments, Instructions, and Schedules" on the Content page for due dates.

Module One:

Covers Sections 1.1 - 1.3 and 2.1 - 2.5

- MyMathLab Homeworks 1.1-2.5
- Test 1 Review
- Test 1

Test 1 over Sections 1.1 - 1.3 and 2.1 - 2.5 is accessed by selecting the Quizzes link on the top, left navigation bar. The tests are online and are password protected. The password will be entered by the test monitor at the Testing Center. The test must be taken on or before the due date at the bottom of this syllabus. A score of zero will be recorded after the test due date.

Module Two:

Sections 3.1 - 3.8

- MyMathLab Homeworks 3.1-3.8
- Test 2 Review
- Test 2

Test 2 over Sections 3.1 - 3.8 is accessed by selecting the Quizzes link on the top, left navigation bar. The tests are online and are password protected. The password will be entered by the test monitor at the Testing Center. The test must be taken on or before the due date at the bottom of this syllabus. A score of zero will be recorded after the test due date.

Module Three:

Sections 4.1 - 4.4

- MyMathLab Homeworks 4.1-4.4
- Test 3 Review
- Test 3

Test 3 over Sections 4.1 - 4.4 is accessed by selecting the Quizzes link on the top, left navigation bar. The tests are online and are password protected. The password will be entered by the test monitor at the

Testing Center. The test must be taken on or before the due date at the bottom of this syllabus. A score of zero will be recorded after the test due date.

Module Four:

Covers Sections 8.1 - 8.8

- MyMathLab Homeworks 8.1-8.8
- Test 4 Review
- Test 4

Test 4 over Sections 8.1 - 8.8 is accessed by selecting the Quizzes link on the top, left navigation bar. The tests are online and are password protected. The password will be entered by the test monitor at the Testing Center. The test must be taken on or before the due date at the bottom of this syllabus. A score of zero will be recorded after the test due date.

Module Five:

Sections 11.1 - 11.7 and 12.1 - 12.4

- MyMathLab Homeworks 11.1-12.4
- Final Exam Review
- Final Exam

The Final Exam over Chapter 1, 2, 3, 4, 8, 11, and 12 is accessed by selecting the Quizzes link on the top, left navigation bar. The tests are online and are password protected. The password will be entered by the test monitor at the Testing Center. The test must be taken on or before the due date at the bottom of this syllabus. A score of zero will be recorded after the test due date.

For a complete schedule of all due dates and last access dates on homework, discussions and tests, see "Assignments, Instructions, and Schedules" on the Content page.

Tests and the final exam must be completed by the due date given. Do not ask for any extension after the due date. Be sure to check with the testing centers for hours that tests may be taken and procedures (you may need to make an appointment). Missing testing center hours for a testing site will not be accepted as a reason for having missed a test. Students should make sure of the testing times and days at the testing site being used. Students may need to adjust the days that tests are taken so that due dates are not missed. If a student's testing center is not open on the stated due date, the test will need to be taken before the due date. Watch these dates carefully. No notes or review material are allowed when taking tests. Use of prohibited material will result in an "F" for the course. Be sure to find out the hours at your designated testing center. For example, the testing center on the main campus closes at 4:30 pm on Friday.

NOTE: This syllabus is meant as a guide and overview of the course, the topics, the objectives, the general assessments, and some standard policies. Some items are subject to change or revision at the Instructor's discretion.