

Nashville State Community College
Division of Science, Technology, Engineering & Mathematics

2018 Master Course Syllabus

MATH 1010 – Math for General Studies

(This master course syllabus template is a general guide for providing an overview of each course offered at Nashville State. Each instructor will further clarify specific criteria for grading, classroom procedures, attendance, exams and dates, etc. on his/her individual course syllabus. Prompts for individual adaptations are italicized and in parentheses; faculty should remove or replace these prompts when creating master syllabi and their own individual syllabi if they have not been removed previously.)

Course Information

Course Title: MATH 1010 Math for Liberal Arts

Credit Hours: 3 credits; 3 classroom hours

Prerequisite: Level 2 placement in Math or concurrent enrollment in MATH 0825

Course Description An introductory mathematics course for non-science majors emphasizing applications. Topics include problem solving, set, logic, algebra, probability, statistics, consumer mathematics, and finance.

Instructor Information

Name:

Email:

Office Phone:

Office Location:

Office Hours:

Required Textbook(s) and Other Materials

- MyMathLab Access Code: ISBN 032119991X (Instructor course code and high-speed Internet access required)
- 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.

STRONGLY RECOMMENDED:

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

OR:

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

Once enrolled, all students should verify that they have the correct textbook and materials information by consulting the D2L/NS Online shell for the course. If you are registered with the

Access Center and require an alternate format for the textbook and other course materials, please contact the Access Center at 615-353-3721, 615-353-3741, or accesscenter@nsc.edu.

Course Outcomes

Upon successful completion of this course, students should be able to complete the following Course Competencies:

Course Competencies

The following are detailed course competencies intended to support the course outcomes:

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. 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 to Be Covered

- 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
- Fundamental Counting Principle
- 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 Assessments

The following performance assessments will be used to demonstrate students’ understanding, knowledge, and skills:

4 Unit/Module Tests: 15% each (60% total)

MyMathLab Homework & Quizzes: 20%

Final Exam (comprehensive): 20%

Grading Policy The grade for the course will be based on unit tests, homework and quizzes, and a final exam determined by the above distribution.

Grading Scale

The final letter grade is based on the following scale:

90-100 A

80-89 B

70-79 C

60-69 D

0-59 F

FA – failure, see below

FN – failure, see below

According to NSCC policy, if a student fails a course, but has not officially withdrawn from the course, and her/his last date of attendance is before the last date to withdraw (*published in the Academic Calendar*), the student will receive a grade of FA (i.e., “Failure for Attendance Reasons”).

An FN is awarded to students who never attended class.

Class Policies, Late Work & Make-up Procedures for Missed Assignments

Homework and Quizzes: Homework and quizzes are required and will count for 20% of your course grade. There will be regular assignments that must be completed using MyMathLab. Understand that you cannot put off an assignment until the last minute, as you may experience technical difficulties or run out of time when attempting to do the work. **It is your responsibility to manage your time carefully.**

Assignments are given **firm** deadlines. All work must be completed by the listed due date & time. You should score a 70% or above on each homework for full mastery of course topics. To raise your score to 70%, simply rework missed problems (you do not need to repeat the whole assignment) until your overall score reaches 70%.

Late assignments will not be accepted for any reason.

Make up policy: **No make-ups or late work of any kind will be accepted!** Manage your time carefully, use a calendar to record due dates, attend class and work in MyMathLab regularly so that are aware of due dates. There are no exceptions to this policy.

Unit/ Module Tests: Tests dates will be announced at the beginning of the semester – see the details in the class website (NS Online), in MyMathLab, and from your Instructor. **If you miss a test, the test will be counted as a zero.** However, the lowest test score (including a zero for a missed test) will be replaced by the final exam grade for everyone provided that the final exam grade is higher than the test grade that it replaces. This only applies to one test. If you miss more than one test, the second zero will stand.

There will be no make-up exams for any reason.

Final Exam: The final exam is comprehensive. The final exam must be taken on the appointed day. Any deviations from that date must be for exceptionally necessary reasons/situations; check with your Instructor ahead of time. Incompletes would only be considered for extraordinary reasons and proof would be required.

Attendance Policy

A Students are expected to attend all scheduled classes and laboratories. Absences in a course may affect a student's final grade. The student is responsible for all assigned work in the course regardless of excused or unexcused absences. Tardiness may also affect a student's final grade.

In online courses, attendance is signaled by logging on to the D2L/NS Online shell, participating as prompted (e.g., responding to an instructor's email, posting to a discussion board) and/or completing and submitting assignments. Campus closures do not affect attendance and assignment completion in online courses.

(Each instructor will provide policy, especially how attendance influences student assessment and grading.)

Technology Statement

Nashville State's classes are considered to be web-enhanced. Faculty have an expectation that students will use a computer and the Internet to complete assignments, engage in online

discussions, and access various course materials through Desire2Learn (D2L) course shells. Computers are available for student use at each campus during campus open hours.

D2L/Brightspace/NSOnline and myNSCC

It is students' responsibility to check D2L/NS Online course shells for all enrolled courses and myNSCC, including student email, on a regular basis. These are the official communication channels between the college and students, who are responsible for the information communicated through those channels. D2L/NS Online contains specific course information and myNSCC contains information important for other purposes.

ADA Compliance Statement

Nashville State complies with the Americans with Disabilities Act (ADA). If you require accommodations for any courses in which you are enrolled, contact the Access Center at 615-353-3741 or 615-353-3721 or email accesscenter@nsc.edu." If you are registered with the Access Center and require an alternate format for the textbook and other course materials, please contact the Access Center.

Classroom Misconduct

Nashville State Community College has a zero tolerance policy for disruptive conduct in the classroom. Students whose behavior disrupts the classroom will be subject to disciplinary sanctions. Please review [Nashville State Student Code of Conduct policy](#). Please be aware that children are not allowed in class or unattended on campus. All electronic devices are to be turned off during class unless prior written consent has been given by the instructor.

Academic Misconduct

Any form of academic dishonesty, cheating, plagiarizing, or other academic misconduct is prohibited. Students are responsible for understanding and aiding by the [Academic Misconduct Policy](#) in the Nashville State Student Code of Conduct. In addition to other possible disciplinary measures that may be applied 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. Students may appeal through the appropriate college grade appeal procedures.

(Each instructor will outline his/her expectations for academic integrity and provide individualized information about consequences for academic misconduct.)

Academic Early Alert System

Nashville State Community College uses an Early Alert System to let students know of a faculty member's concern in one or more of these academic areas: lack of attendance, lack of classroom participation, late or missing assignments, and/or poor performance on assignments/tests. *Please note that Early Alerts do not affect a student's academic standing. If you receive an Early Alert email, please see your instructor and your academic advisor as soon as possible.

RAVE Emergency Alert System

Emergency events can happen at any time and Nashville State Community College wants to be able to notify students if and when they occur. For this reason, all students have been enrolled in the free RAVE alert system. If you have not already done so, please log in at <https://getrave.com/login/nsc> to confirm and update your contact information and notification preferences. It is critical that your information be correct so that you will receive any emergency notifications. Your RAVE Username is your NSCC email address. If you've never received an email from RAVE with your password, or if you need to reset your password, select "Forgot your password?" and a new password will be emailed to you. Should the RAVE system indicate "user not found", select Register and create your own RAVE account.

Inclement Weather & Campus Closings Policy

Nashville State will use the RAVE alert system to send a text message to students, staff, and faculty about adjusted hours of operation and/or closings at individual campuses. All students should check the Nashville State web site home page at www.nsc.edu for announcements on campus closures, which may vary from campus to campus. Campus closures will also be announced on local television stations. Students should use their own best judgment in determining whether to report to campus during inclement weather when classes are not cancelled.

Even when campuses are closed, students are still responsible for completing all assigned work. When classes are cancelled, faculty will post online assignments and any additional instructions in the D2L/NS Online course shell. Check D2L/NS Online for a message from your instructor regarding your online assignment requirements. Faculty have discretion over adjusting deadlines or due date for assignments, but students are responsible for completing all assigned work by the due date established by the instructor.

Class Cancellation Policy

If the class is cancelled, the instructor will notify all students by posting in the NSOnline/D2L course, e-mailing through D2L/NSOnline, and/or by posting a sign on the classroom door. In the event of class cancellation, students must access D2L/NSOnline to complete classwork and the assignment that will be posted in the course D2L site.