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:

Textbook and Other Materials:
- Students must check with the Instructor before purchasing any materials.

REQUIRED:
- 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:
- OR:

Course Outcomes:
Upon successful completion of this course, students should be able to:

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
- Computations
- Fundamental Counting Principal
- Permutations
- Combinations
- Odds
- Events Involving “Not” and “Or”
- Events Involving “And”
- Conditional Probability
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

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. This date equates to the last day to withdraw from the course (see the published Academic Calendar for details). An FN will be awarded to any student who never attends this course.

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

Homework and Quizzes: Your grade is your responsibility. Do your homework on time; be attentive to each lecture and ask questions when you don't understand the material; study for test by doing problems; request an appointment with me if help is needed; use a tutor (free) in the Learning Center or a study group to help with the material as needed. You should study mathematics two or more hours between class meetings to remember the material. 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.**

**MyMathLab Study Plan:** After you attempt a Homework, if you do not get a perfect score, MyMathLab will generate a “Study Plan” to help you with extra practice. This section is optional but is a great place to get extra examples without changing your homework score(s).

a) Click on *Study Plan* and go to the desired Homework. Click on “show me what I need to study”.

b) Practice the questions in the topics you need to study

c) Redo the homework when you feel you have mastered the concepts missed on the previous attempt.

**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**

Attendance in this class is required. Students are expected to attend all scheduled classes, to be on time, and remain until the completion of all class meetings. Students who are marked absent for two consecutive weeks of class will receive an failing grade. If you would like to petition for an exemption after having missed two weeks, you may do by contacting Dean Roberts (Dean of Math and Natural Sciences. Successful petitions will require documentation demonstrating an acceptable reason for having missed two consecutive weeks of class. (Dean Roberts:sarah.roberts@nscc.edu, 615-353-3369, K-240, Main Campus.) 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. Being tardy disrupts the class. If a student is tardy to class (arriving late and/or leaving class early 2 or more times in a month), he/she will be required to meet with the Dean of Students before returning to class. Attendance will be taken and reported for Financial Aid purposes. If a student is absent, it is the student’s responsibility to obtain missed material and it is suggested that the student contact the instructor as soon as
possible. If classes are cancelled due to inclement weather, a class assignment will be posted in the NS Online class website. It is recommended that students work at least 2 hours outside of class for each hour inside of class (at least 6 hours outside of class per week). If you fall behind, you will need to catch up quickly.

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 email
It is the student’s responsibility to check D2L (Brightspace) 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.

Academic Early Warning System
Nashville State Community College has implemented an Early Warning System to notify students via e-mail about academic problems such as poor classroom attendance, poor performance on assignments/tests, poor communication skills, late/missing assignments, and/or lack of classroom participation. *Please note that Early Warning Alerts do not affect a student’s academic standing.

RAVE Emergency Alert System
Emergency events can happen at any time and Nashville State Community College wants to be able 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/nscc 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 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.nscc.edu for announcements on campus closures, which may vary from campus to campus. Campus closures will also be announced on local television stations.
When classes are cancelled, an online assignment will be posted in NS Online. Check NS Online for a message from your instructor regarding your online assignment requirements.

Students should use their own best judgment in determining whether to report to campus during inclement weather when classes are not cancelled.

**Class Cancellation Policy**

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

**ADA Compliance Statement**

Nashville State complies with the Americans with Disabilities Act. If you wish to request any special accommodations for any courses in which you are enrolled, contact the Access Center at 615.353.3741 or 615.353.3721.

**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. The Nashville State Student Code of Conduct policy is available at [http://www.nscc.edu/content/resources/Student_Code_of_Conduct_Policy.pdf](http://www.nscc.edu/content/resources/Student_Code_of_Conduct_Policy.pdf).

Students are expected to respect and support others to create a positive learning environment. Food and drink should be discarded before entering the classroom. All electronic devices are to be turned off (or ‘vibrate’) during class and must be out of sight unless prior consent has been given by the instructor. Students wanting to make use of an electronic note-taking device (laptop, iPad, etc.) must see the instructor and sign a ‘use-contract’ prior to using the device.

The instructor has primary responsibility for control over classroom behavior and maintenance of academic integrity. He/she can order temporary removal or exclusion from the classroom of any student engaged in disruptive conduct or conduct which violates the general rules and regulations of the College. Disruptive behavior in the classroom 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, repeated outbursts from a student which disrupt the flow of instruction or prevent concentration on the subject taught, failure to cooperate in maintaining classroom decorum, eating meals, etc.), the continued use of any electronic or other noise or light emitting device which disturbs others (e.g., disturbing noises from beepers, cell phones, palm pilots, lap-top computers, games, etc.) If a student disrupts the classroom, they may be removed by security. The student will not be allowed to return to class until the issue has been resolved with the Dean of Students.

Please be aware that children are not allowed in class or unattended on campus.
**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 that can be found at http://www.nscc.edu/content/resources/Student_Code_of_Conduct_Policy.pdf.

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 materials 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. Students may appeal through the appropriate college grade appeal procedures.

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 and/or department’s discretion.