

Nashville State Community College  
*STEM Division*  
**Mathematics**

2018 Master Course Syllabus

*Math 1000-Foundations of Algebra*

**Course Information:**

Course Title: Math 1000 Foundations of Algebra

Credits: 3 credits

Class Hours: 3 class hours

Course Description: This course is designed to prepare students to have the necessary skills to be successful in algebra intensive college-level mathematics courses.

The curriculum provides multiple representations of applications and problem-solving, both algebraically and with the aid of technology. Topics include performing operations with polynomials and rational expressions; analysis of quadratic and rational functions and graphs; solving quadratic, rational, and radical equations; and graphing and evaluating polynomial and exponential functions.

Prerequisite(s): [Level 2 placement in Math](#) or concurrent enrollment in [MATH 0815](#). Note: This course will not satisfy general education math requirements for associate degrees or technical certificates. The purpose of this course is preparation for [CHEM 1110](#), or [MATH 1130](#) or [1710](#) for those students with a [math placement level 1](#) upon admission or for those students who reached [math placement level 2](#) by completing a SAILS program in high school.

**Instructor Information:**

Name:

Email:

Office Phone:

Office Location:

Office Hours:

**Required Textbook(s) & Other Materials:**

MyMathLab Access Code: ISBN 0-321-19991-X: You need the code to access homework, quizzes, and textbook help. This code must be purchased within the first 2 weeks of class and may be purchased in the bookstore or online with a credit/debit card.

**Calculator: A TI-83 or 84 (Plus) is required. Calculators with a Computer Algebra System (CAS), such as the TI-89, will not be allowed on exams. The TI-nspire calculator will only be allowed with the TI-84 Plus keypad. Cell phones may not be used as calculators on exams.**

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](mailto:accesscenter@nsc.edu).

### **Course Outcomes and Topics:**

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

- **Module 1: Linear Functions**

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

- a. Graph linear functions algebraically.
- b. Graph linear functions with technology.
- c. Solve and graph linear inequalities.

- **Module 2: Operations with Exponents and Polynomials**

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

- a. Combine terms using the rules of exponents.
- b. Combine polynomial expressions through addition, subtraction, multiplication and division.
- c. Evaluate polynomial equations.

- **Module 3: Factoring Polynomial Expressions and Quadratics**

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

- a. Factor polynomials including greatest common factor.
- b. Factor by grouping.
- c. Factor trinomials.
- d. Factor polynomials (including binomials) using formulas.

- **Module 4: Solving Quadratic Equations**

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

- a. Simplify radicals.
- b. Solve quadratic equations by numerical, graphical, and algebraic approaches including factoring, quadratic formula, and square root property.
- c. Graph quadratic equations with technology.

- **Module 5: Other Expressions and Equations**

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

- a. Simplify and perform basic operations with rational expressions.

### Course Assessments:

- The following performance assessments will be used to demonstrate students' understanding, knowledge, and skills: MyMathLab Homework is 10%
- MyMathLab Quizzes are 10%
- 5 Module Tests are 12% each (60% total)
- Required Comprehensive Final Exam is 20% (or 32% if the Final replaces a lower test score)

### Grading Policy:

- Final averages between 90 and 100% earn an A
- Between 80 and 89% earns a B
- Between 70 and 79% earns a C
- Between 60 and 69% earns a D and
- Averages below 60% earn an F
- FA (Per TBR policy, a student who does not officially 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.
- FN grade is awarded to students who never attended class.

### Grading Scale:

Letter Grade	Percentage Range
A	90-100
B	80-89
C	70-79
D	60-69
F	59 and below

### Late Work Policy & Make-up Procedures for Missed Assignments and Work:

**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 you are aware of due dates. There are no exceptions to this policy.

## **Attendance Policy**

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.

## **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 D2L/NS Online course shells. Computers are available for student use at each campus during campus open hours.

## **D2L/NS Online 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 e-mail [accesscenter@nsc.edu](mailto: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 measures. Please review the [Nashville State Student Code of Conduct policy](#). Please be aware that children are not allowed in class or to be left unattended on campus.

## **Academic Misconduct**

Any form of academic dishonesty, cheating, plagiarizing, or other academic misconduct is prohibited. Students are responsible for understanding and abiding 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.

## **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://www.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**

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](http://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 D2L/NS Online course, e-mailing through D2L/NS Online, and/or by posting a sign on the classroom door. In the event of class cancellation, students must access D2L/NS Online to complete classwork and the assignment that will be posted in the course D2L site.