

Nashville State Community College
STEM Division
Mathematics

2020 Master Course Syllabus – Web Sections
MATH 1130 College Algebra

(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 their 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.)

This syllabus sets forth the expectations for course content, work, and grading as well as expectations for student performance and conduct. The syllabus does not constitute a contract between the student and the instructor or the College. The information contained here is subject to change at any time. Students will be notified if any changes are made. Though changes are possible, it is expected that the course will be conducted as described in this syllabus.

Course Information:

Course Title: MATH 1130 College Algebra

Credits: 3 Credit Hours

Class Hours: 3 Class Hours

Course Description:

Course Description: A traditional college algebra course for non-science majors. Topics include rational and exponential expressions, the concept of functions and their inverses, linear functions and equations including equations with radicals and absolute values, quadratic functions and equations, exponential and logarithmic functions and equations, graphs of basic functions, systems of equations, and inequalities. Prerequisite(s): Initial Level 2 placement or higher in Math or MATH 1000.

Instructor Information:

Name:

Email:

Office Phone:

Office Location:

Office Hours:

Required Textbook(s) & Other Materials: (Students must check with the Instructor before purchasing any materials.)

The following Materials are available from the Nashville State Bookstore. (The access code for MyMathLab (MML) can also be purchased online using a credit card at <http://pearsonmylabandmastering.com> (if any of the course materials are purchased online, the delivery should be "next day" delivery).

Required: MyMathLab/MyStatLab Student Access Kit, ISBN 9780134757926 (Access code can be purchased online at <http://pearsonmylabandmastering.com>). There is a link to the page with MyMathLab enrollment instructions on the Content page.

ISBNs for and other information about optional course materials are included below.

Optional: package College Algebra, 7th edition by Blitzer (textbook, MyMathLab Access, student solution manual): Publisher Pearson, ISBN 9780134754734. The textbook is optional because the entire 7th edition of the textbook is online in MyMathLab. Students who like to underline and write in a book may want a hard copy. To order this book, a student will need to do an internet search and order it online.

Optional: Text only: College Algebra, 7th edition, by Blitzer; Publisher: Pearson: ISBN 9780134469164

Reference Materials: Optional resource: Student Solutions Manual only, ISBN 9780134469270. (This will be needed if a student decides to use the textbook exercises for drill and practice and to better understand the material. The MML homework exercise sets are the graded exercise sets.

Supplies (Required) TI-83 or 84 Plus Calculator (The TI-83/TI-84+ graphing calculator is required and used extensively in this course.) For a quick reference to all of the calculator functions that will be used, students are required to print out the TI-83/TI-84+ Plus Graphing Calculator Reference Card that can be accessed from a link under Resources on the Content page.

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.

Digital Course Materials (DCM):

To ensure the lowest cost for students, this course includes a materials fee. This means that some or all of the required textbooks and materials for this course are available through your *NS Online* course shell. When you register for this course, the charge will appear on your account. If you decide you do not want to purchase the course materials embedded in *NS Online*, you can opt out of the program until September 6th, 2020. If you opt out, you will be responsible for obtaining the required course materials on your own.

Course Outcomes:

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

- Solve problems using mathematics, and determine if solutions are reasonable.
Solve rational, radical, absolute value, and logarithmic equations and determine if the solution is reasonable. Solve linear inequalities and determine if the solution is reasonable.
- Apply mathematical concepts to solve real-life problems using formulas (deduction) and interpret the meaning of the solution.
Create, analyze, and interpret the results of linear and exponential functions.
- Construct meaningful connections (transfer of knowledge) between mathematics and other disciplines.
- Apply technology for mathematical reasoning and problem solving.
Solve real-world problems by applying mathematical models using exponential and logarithmic functions.
- Analyze data/graphs by using mathematical modeling and/or statistical reasoning.
Use appropriate technology to solve equations and systems of equations graphically, and determine increasing and decreasing intervals of functions.

Topics to Be Covered:

Algebraic expressions, mathematical models, real numbers; Exponents, scientific notation; Radicals and rational exponents; Polynomials; Factoring Polynomials; Rational expressions; Graphs and graphing utilities; Linear equations and rational equations; Models and applications; Complex numbers; Quadratic equations; Other types of equations (radical, rational); Linear inequalities, absolute value inequalities; Basics of functions and their graphs; More on functions and their graphs; Linear functions and slope; More on slope; Combinations of functions, composite functions; Inverse functions; Distance and midpoint formulas; Quadratic functions; Polynomial functions and their graphs; Dividing polynomials; remainder and factor theorems; Zeros of polynomial functions; Polynomial inequalities; Exponential functions; Logarithmic functions; Properties of logarithms; Exponential and logarithmic equations; Exponential Growth and Decay; Systems of linear equations in two variables; Systems of nonlinear equations in two variables

Course Assessments:

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

Homework, Discussion, and Testing Policies

All information about homework, discussions, and tests are accessed under "Assignments (Instructions and Schedules)" on the Content page. Each student must read all of the pages and will be responsible for fulfilling all requirements and assignments. There are some strict deadlines.

Other PROCEDURES and POLICIES

- Students are responsible for knowing the information in this syllabus and on all pages posted on the Web pages for this course. The initial attendance email from each student should verify that all pages have been examined.
- Students are expected to view the video lectures, complete the assigned problems and discussions and submit them on or before the due dates. Tests must be taken by the dates on the course outline sheet and schedule page.
- Netiquette rules (see content page) must be observed in all email messages, discussions, and online communications.
- Handouts, Schedules, and Modules
- A section on the Content Page contains a list of handouts for some of the course content that might be helpful. There are no assignments contained in the handouts.
- On the Content Page, see the section, "Assignments, Instructions and Schedules" for the due dates for homework, tests, and discussions.
- Module 1, Module 2, Module 3, on the Content Page give the instructions for completing the course materials.

COURSE REQUIREMENTS

- Report Course Progress to your instructor by submitting assignments. Attendance will be taken by completing homework assignments.
- Complete homework assignments for each course section. The homework is accessed by selecting "Homework" on the navigation bar after login to MyMathLab. A few access days are provided after the due date. A score of zero will be recorded after the last access day. See Homework link under Assignments, Instructions and Schedule on the Content page.
- Have a final average of 60 or more
- Complete three module tests and a comprehensive final exam
- Send an email to the instructor by the end of the first day of classes and Discussion 1 by the end of the first week. The email should indicate that every page in the content has been opened, examined, and understood.
- Post responses to the four discussions.
- Students must learn to use the graphing calculator for computations and solving equations. These type exercises will be on the tests. Study the tutorials provided via links on the Content page.

Grading Policy:

Do not make a request for extra credit. There are no provisions for extra credit in this course. Each student will receive a grade for the course based on the exact same criteria as outlined below. Grades for this course will be based on unit tests, homework, final exam and discussions as follows:

Discussions (Introduce Yourself, Summary and Reflections)--10%

Homework--20%

Proctored tests-50% (review for each test will count as 20% of each test and it can be taken as many times)

Proctored Final Exam (comprehensive)-20%

No extra credit assignments are provided.

*The proctored exams must be taken at a testing center at one of NSCC's Campus sites for that a password can be entered by testing center personnel.

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

(Each instructor will provide policy)

Attendance Policy

The College is not an attendance taking institution as defined by 34 CFR 668.22(b)(1) in the Code of Federal Regulations; however, students are expected to attend all scheduled classes and laboratories.

- Absences in a course may affect a student's final grade.
- Tardiness may also affect a student's final grade.
- Students are responsible for all work/tests that occur during any missed class session(s) regardless of reason(s) for absence.
- Students who are sick or not well enough to attend class must notify the instructor as soon as possible before the scheduled class time, unless incapacitated or unable to do so. In that case, students must contact the instructor as soon as reasonably possible.
- If a student has an unavoidable conflict with a scheduled class session, students must notify the instructor, preferably before the class session, or as soon as possible.

For purposes of financial aid continued attendance is determined via engagement in the course. This can be accomplished in several ways including, but not limited to, continued attendance and/or participation in on-ground class sessions, participating in D2L as prompted (e.g., responding to an instructor's email, posting to a discussion board), and/or completing and submitting assignments.)

To the extent that attendance is kept in this class it is not for the purpose of the College but is instead associated with the instructor's individual grading rubric. The attendance policy for this class is: *(add attendance policy)*.

Grading Scale:

Letter Grade	Percent Range
A	90 to 100
B	80 to 89
C	70 to 79
D	60 to 69
F	0 to 59

FA

According to NSCC policy, an FA is awarded to students who do not officially withdraw from a course and do not attend after the cut-off date provided in the academic calendar. Please refer to the current academic calendar available on the Nashville State web site, looking for the date that indicates it is the “Last Day to Earn F for Attendance (FA).” Students who stop attending on or before this date receive an FA; students who stop attending after this date receive an F.

For online courses, attendance is defined by submission of assignments. Students who fail a course and whose last assignment is submitted on or before the FA date will earn an FA for the course. Students who fail a course and whose last assignment is submitted after the FA date will earn an F for the course. An FN is assigned to students who do not submit any assignments.

(While the above information should appear in all syllabi, faculty are encouraged to make additional statements that would clarify the policy for students and provide the applicable FA date for their section.)

FN

An FN is awarded to students who never attended class.

Technology Statement

- All classes at the College are web enhanced.
- It will be essential for students to have access to a computer and an internet connection to complete assignments, engage in online discussions, and access various course materials through D2L/NS Online course shells.
- Students may also be required to use free video conferencing platforms (ex: Zoom, Teams) for classes and meetings.
- Students will be responsible for appropriate dress while on video, to ensure a distraction free environment (mute sound as needed) and to ensure their background is neutral for others to view.
- If you have questions or concerns regarding access to a computer or internet resources, please contact your instructor. Additional information available: <https://www.nsc.edu/current-students/student-online-resources/access-to-internet-and-technology>.
- Certain publisher materials may not work on cellphones.

Computer Labs

Computers are available for student use at each campus during campus open hours. Open computer lab availability for Fall 2020 may vary from campus to campus.

Students should check NSCC website for current hours of operation.

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. 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.

(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 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.

Student Wellness

- The general well-being of students is an important component of their academic success. With this in mind, Nashville State Community College has several resources available to provide support when needed:
 - Students with general, non-academic questions and concerns about COVID-19 may email virusinfo@nsc.edu.
 - Five free telephone therapy sessions are available via Agape Counseling by calling 615-781-3000.
 - Online tutoring is available via NetTutor within the D2L course shells.
 - A comprehensive list of online student resources may be found at <https://www.nsc.edu/current-students/student-online-resources>
 - A comprehensive list of student support services may be found at <https://www.nsc.edu/current-students/on-campus-resources/student-support-services>

Equity Statement

Nashville State Community College has a relentless commitment to the transformation of our institution through the intentional design of college experiences that expect and promote excellence from students, faculty, staff and administration. We consider equity to be an obligation of higher education. We strive to ensure that each student receives what that student needs to be successful, with goals of success beyond the classroom. We do this through an evidence-based and collaborative effort, understanding that our student population has diverse needs that must be addressed. We recognize that this effort may not always be comfortable and that partnering with students is the driving force to overcome barriers to success.

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 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.

Communication Statement

In this time of uncertainty due to COVID-19, communication between student and faculty is key. At times, situations arise for one or both that makes that communication difficult or delayed. This can include but is not limited to health issues and/or problems with technology. If you have attempted to contact your instructor, and have waited the turnaround time as outlined in the syllabus but have not yet received a response, please reach out for additional support using this survey:

<https://forms.gle/rM7rxFarksRFeA3b8>