Nashville State Community College  
Division: Science, Technology, Engineering and Mathematics (STEM)  
Program: Mathematics  

2018 Master Course Syllabus  

*Math 1410-Number Concepts for Teachers*  

(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 1410-Number Concepts for Teachers  
**Credits:** 3  
**Class Hours:** 3

**Course Description:** An introductory first course in math for elementary education, which is restricted to students majoring in Elementary or Early Childhood Education. Topics include tools for problem-solving, sets and operations on sets, functions, logic, numeration system, algebra-based study of properties of and operations with whole numbers, integers, rational numbers, and real numbers. Prerequisite(s): Level 2 placement or higher in Math.

Instructor Information:

Name:  
Email:  
Office Phone:  
Office Location:  
Office Hours:

Required Textbook(s) & Other Materials:

**ISBN:** The following ISBN is for Web Assign: 9781319147631. Purchasing Web Assign using that ISBN will give students access to the electronic textbook. If you prefer to have a physical copy of the textbook along with Web Assign, you can use this ISBN: 9781319149055.  
**Access Code:** Web Assign access code is required. See ISBN instructions above.
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@nscc.edu.

**Course Outcomes:**

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

- Develop the meaning of addition, subtraction, multiplication, and division and provide multiple models for whole number operations, multi-digit computation, number bases, and their applications
- Recognize the meaning, historical development and use of place value in representing whole numbers, finite decimals, and percents, comparing and ordering numbers, and understanding the relative magnitude of numbers
- Analyze integers and rational numbers, their relative size, and how operations with whole numbers extend to integers and rational numbers
- Investigate equality and equations, and using mathematical models to represent quantitative relationships
- Evaluate and utilize various problem-solving strategies to solve problems that arise in mathematics and that involve mathematics in other contexts. These strategies will include patterns and the four-step problem-solving process

**Topics to Be Covered:**

- Numeration systems and number bases
- Addition and subtraction of whole numbers
- Algorithms for whole-number addition and subtraction
- Multiplication and division of whole numbers
- Algorithms for whole-number multiplication and division
- Divisibility
- Prime and composite numbers
- Greatest common divisors and least common multiples
- Addition, subtraction, multiplication, and division of integers
- Rational numbers
- Additional, subtraction, multiplication, and division of rational numbers
- Proportional reasoning
- Introduction to decimals
- Operations on decimals
- Non-terminating decimals
- Percents and interest
- Real numbers
- Variables, equations, and functions
- Mathematics and problem-solving
- Patterns
- Reasoning and logic
- Sets and operations on sets
Course Assessments:
The following performance assessments will be used to demonstrate students’ understanding, knowledge, and skills:

Testing
There will be 3 regular tests throughout the semester and one cumulative final exam, each test and exam are worth 20% of your overall grade. If you miss one regular test, I will replace that test with your final exam score. That will only happen for one missed test. If you miss more than one test, the final exam score will replace only one – the others will be zeros. There will be NO make-up tests and NO make-up for the final exam. The final exam is REQUIRED for all students. If you do not miss any of the 3 regular tests, then your final exam score will replace your lowest test score (provided that your final exam score is higher than your lowest test score).

Quizzes
The nature and design of quizzes is up to the individual discretion of the instructor. Quizzes will be worth no more than 10% of the overall grade.

Homework
The nature and design of homework is up to the individual discretion of the instructor. Homework will be worth no more than 10% of the overall grade.

Grading Policy:
Your final grade for the course will be determined by the following percentages:

- Homework – 10%
- Quizzes – 10%
- Test 1 – 20%
- Test 2 – 20%
- Test 3 – 20%
- Final Exam – 20%

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.

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. Since no late work is accepted and no make-ups are given, it is possible for absences to drastically impact a student’s grades or not impact the grade at all dependent upon when the absence occurs.
Grading Scale:

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Percentage Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90%-100%</td>
</tr>
<tr>
<td>B</td>
<td>80%-89%</td>
</tr>
<tr>
<td>C</td>
<td>70%-79%</td>
</tr>
<tr>
<td>D</td>
<td>60%-69%</td>
</tr>
<tr>
<td>F</td>
<td>59% or below</td>
</tr>
</tbody>
</table>

FA
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 (use date appropriate to your section), the student will receive a grade of FA (i.e., “Failure for Attendance Reasons”).

FN
An FN is awarded to students who never attended class.

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@nscc.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/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 & 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.nscc.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.