

NORTH CENTRAL TEXAS COLLEGE

COURSE SYLLABUS

<i>Course Title:</i>	Integrated College Algebra			<i>Course Modality:</i>	In person
<i>Course Prefix & Number:</i>	MATH 1314/ NCBM 0214	<i>Section Number:</i>	0415	<i>Class Day/Time:</i>	MW 10:00-12:20
<i>Semester Credit Hours:</i>	5	<i>Lecture Hours:</i>	80	<i>Semester/Year:</i>	Fall 2021
<i>Course Description for Math 1314 (NCTC Catalog):</i> In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conic may be included.					
<i>Course Description for NCBM 0214 (NCTC Catalog):</i> A study of relations and functions, inequalities, algebraic expressions and equations (absolute value, polynomial, radical, rational), with a special emphasis on linear and quadratic expressions and equations. <i>This course does not count toward graduation at NCTC.</i>					
Course Prerequisite(s): Pass Math 0305 with a "C" or better, or earn satisfactory TSI Assessment placement score, or earn satisfactory placement score on another approved assessment.					
<i>Required or Recommended Course Materials:</i> College Algebra, Lial/Hornsby/Schneider/Daniels, 13 th edition, Pearson, 2021 or MyMathLab access code (e-text included in MML) Scientific calculator, TI-30X IIS is recommended Graphing calculators and phone calculators will not be allowed on exams.					

INSTRUCTOR INFORMATION

Name of Instructor:	Marla Owens
Campus/Office Location:	Corinth / Rm 206
Office Hours:	Monday/ Wednesday 9:00 am -10:00 am; 12:30 – 1:00 pm Monday 2:30 pm – 3:30 pm Wednesday 5:00 – 6:00 pm Tuesday/Thursday Virtually 2:00 – 5:00 pm Evening, Weekends by appointment only virtually
Telephone Number:	940-498-6226
E-mail Address:	mowens@nctc.edu

STUDENT HOURS (OFFICE HOURS)

Each week instructors have time set aside to meet with students outside of class. (Traditionally these times have been called "office hours".) This is a time when a student may ask questions regarding the class, or discuss a particular problem/topic with an instructor one-on-one. Student hours may be held in-person or online. See below for instructions on where/when/how instructors will offer student hours in this class.

There are several options to contact me during my office hours. Email me first to let me know what day and time you would like to meet. We can meet face-to-face on Mondays and Wednesdays. If you are not comfortable with meeting face to face, we can meet virtually meet through BigBlueButton in Canvas during any of my posted office hours.

GRADING CRITERIA

# of Graded Course Elements	Graded Course Elements	Percentage or Point Values
35	Homework	10%
11	Quizzes	10%
30	Attendance and Participation	10%
5	Tests	50%
1	Final Exam	20%

Grade Scale for Math 1314: 90 – 100% = A; 80 – 89% = B; 70 – 79% = C; 60 – 69% = D Below 60% = F

Grade Scale for NCBM 0214: 70 – 100% = P; Below 70% = F

MATH 1314.0415/NCBM 0214 Integrated College Algebra Tentative Weekly Schedule

Week	Date	Topic
1	August 23	Introduction 1.1 Linear Equations Greatest Common Factor (R.6)
		1.2 Applications and Modeling with Linear Equation (Mixture and Motion only) Refresh on Factoring 3 and 4 terms (R.6)
2	August 30	Factoring 2 terms (R.6) Simplifying radicals (R.8)
		1.3 Complex Numbers
3	September 6	<i>No Class- MON SEPTEMBER 6– Labor Day holiday</i>
		TEST #1: Sections 1.1, 1.2, factoring, simplifying radicals 1.4 Quadratic equations by Zero factor and square root property
4	September 13	1.4 Quadratic equations by completing the square and quadratic formula
		1.6 Other Types of Equations and Applications (Omit work rate and equations of quadratic form)
5	September 20	1.7 Inequalities – Linear, 3-part
		1.8 Absolute value equations and inequalities (Linear only- Eqs. & Ineqs.)
6	September 27	2.1 Rectangular Coordinates and Graphs (omit midpoint formula) 2.2 Circles
		TEST #2: Sections 1.3 – 1.8 2.3 Functions
7	October 4	2.4 Linear Functions

		2.5 Equations of lines (Omit modeling data and solving in one var. by graphing)
		2.6 Graphs of Basic functions (Omit continuity and $x = y^2$) 2.7 Graphing Techniques (Omit symmetry, even and odd)
8	October 11	More practice with graphing/worksheet/built in extra time
		TEST #3: Sections 2.1 – 2.6 2.8 Function Operations on Functions and Composition
9	October 18	3.1 Quadratic functions and Models
		3.2 Synthetic division 3.3 Zeros of Polynomial Functions (omit Descartes' rule of signs)
10	October 25	3.4 Polynomial functions and graphs (Omit Intermediate Value and Boundedness Theorems, Approx. of Real Zeros, and Polynomial models)
		3.5 3.5 Rational Graphs (Omit oblique asymptotes and holes) **Last Day to Drop with a W is Monday 11/1**
11	November 1	**Last Day to Drop with a W is Monday 11/1** 4.1 Inverse functions (Omit Application) 4.2 Exponential Functions (Omit Modelling Growth)
		TEST #4: Sections 2.7 – 3.5 4.3 Logarithmic Functions (Omit graphing logs)
12	November 8	4.4 Evaluating Logarithms and the Change-of-Base Theorem (Omit Applications) 4.5 Exponential and Logarithmic Equations (Omit Applications)
		4.6 Applications of Exponential Growth and Decay (omit Models) 5.1 Systems of Linear Equations (omit Applications)
13	November 15	5.5 Non-linear systems of Equations (omit Applications) 5.3 Determinants solutions of Linear equations (omit Cofactors and Determinant Thm)
		5.7 Properties of Matrices (omit Applications) 7.1 Sequences & Series
14	November 22	Test#5 Sections 4.1 – 7.1
		NO CLASSES FOR Thanksgiving Holiday Break - Campuses closed Wed., Nov 24 – 28
15	November 29	1.5 Applications and Modeling with Quadratic Equations 3.7 Variation
	December 8	Review for Final Exam <i>Final Exams Dec 6-11</i>

****Final exam is scheduled for: December 8 from 10:00 am – 12:20 pm**

This schedule is tentative and may be subject to change as the semester progresses. NCBM 0214 and FAS 1202 students will have a general idea of the order and speed with which we will be covering the material.

*Out of Class Assignments include watching the Section Lecture Video, Power Points, reading the E-Text (take notes and work all example problems) for each section, and working supplemental problems from the book/ebook.

Time required to be successful in this course: The general rule of thumb is 1 credit hour = 3 hours out of class work (minimum). For this course you should be spending at least 9 hours a week (minimum) outside the classroom. This should help you with time management.

MyMathLab:

Homework is assigned in MyMathLab (MML). Due dates will be listed in MML.

The homework can be worked an infinite amount of times.

Quizzes are assigned in MML. Always double check due dates. Students get 3 attempts on the quizzes, some may have time limits. The highest quiz score will be used in the MML gradebook.

Quizzes that are Reviews for the Tests:

There are 3 attempts to work the quiz. Only the highest score is kept in the gradebook. These quizzes are to help practice for the test in which NO NOTES are allowed, and NO GRAPHING CALCULATORS allowed. These are lengthy and are not timed. Plan accordingly.

To utilize the quiz/practice test correctly – take it AT LEAST ONCE without using any notes.

****Homework and quizzes may be worked past the due date with a late penalty of 30%. This eliminates the need for students to ask the instructor to modify due dates.**

After the final exam there is NO more work a student can do to improve their grade.

STUDENT LEARNING OUTCOMES MATH 1314

	At the successful completion of this course the student will be able to:
1.	Demonstrate and apply knowledge of properties of functions, which include domain and range, operations, compositions, and inverses.
2.	Recognize and apply polynomial, rational, radical, exponential, and logarithmic functions and solve related equations.
3.	Apply graphing techniques
4.	Evaluate all roots of higher degree polynomial and rational functions.
5.	Recognize, solve and apply systems of linear equations using matrices.

STUDENT LEARNING OUTCOMES NCBM 0214

	At the successful completion of this course the student will be able to:
1.	Define, represent, and perform operations on real and complex numbers.
2.	Recognize, understand, and analyze features of a function.
3.	Recognize and use algebraic (field) properties, concepts, procedures (including factoring), and algorithms to combine, transform, and evaluate absolute value, polynomial, radical, and rational expressions.

4.	Identify and solve absolute value, polynomial, radical, and rational equations.
5.	Identify and solve absolute value and linear inequalities.
6.	Model, interpret and justify mathematical ideas and concepts using multiple representations.
7.	Connect and use multiple strands of mathematics in situations and problems, as well as in the study of other disciplines.

STUDENT EMAIL

All students at NCTC are assigned a student email address, also known as Lion Pride email. Lion Pride email can be accessed on the NCTC home page by clicking on MyNCTC, then the link "Lion Pride Email" to the left. After clicking the Lion Pride Email link, the Microsoft Office 365 window will open.

1. Enter your NCTC student e-mail address. (for example, Smithj123456@student.nctc.edu)
2. Enter your password (your NCTC Student ID Number, either 7 or 9 numbers).
3. From the list of Microsoft icons, choose MAIL.
4. You will be asked to set your language and local time zone (Central Time). Your account is now activated.

**It is the student's responsibility to activate and regularly monitor the assigned NCTC (Lion Pride) e-mail account. Important announcements and notifications from the Admissions office, Financial Aid, or other college staff will be sent via the Lion Pride student email system.

For communicating with classmates and instructors, students also have an option to communicate through Canvas. Canvas messaging is NOT the same as Lion Pride e-mail. Failure to read and/or receive NCTC e-mails (either in Lion Pride or in Canvas) is no excuse for not complying with any school policy. Be sure to regularly check BOTH the Lion Pride email as well as the Canvas inbox for important messages and information.

TSI COMPLIANCE

At North Central Texas College, students who test but do not meet the passing scores in ALL sections of the TSI Assessment or any other THECB approved testing measurements are required by state law to obtain TSI advising and continuously enroll in a formal college preparatory studies (developmental) program every semester until all TSI requirements are satisfied. TSI program attendance is MANDATORY. Non-compliance with the rules of attendance can result in a student being WITHDRAWN from the college preparatory and college-level math courses. Withdrawals are subject to college policies as set forth in the college catalog.

ATTENDANCE POLICY

Regular and punctual attendance is expected of all students in all classes for which they have registered. All absences are considered to be unauthorized unless the student is absent due to illness or emergencies. It is the student's responsibility to provide documentation as to the emergency for approval by the faculty member. Approved college-sponsored activities are also excused absences. The instructor is responsible for judging the validity of any reason given for an absence. Valid reasons for absence, however, do not relieve the student of the responsibility for making up required work. Students will not be allowed to make up an examination missed due to absence unless the absence is documented and excused by the instructor. Student will be dropped from a class by the Registrar upon recommendation of the instructor who feels the student has been justifiably absent or tardy a sufficient

number of times to preclude meeting the course's objectives. Persistent, unjustified absences from classes or laboratories will be considered sufficient cause for College officials to drop a student from the rolls of the College. From Board Policy FC (LOCAL)

TESTING POLICY

Testing may be administered in a variety of ways and the mode of testing may change during the semester as deemed appropriate by the instructor. When possible, in-person proctored testing is preferred. For in-person classes testing will occur during the designated class times. **For online classes in-person proctored testing may be required.** On site testing may be done in an NCTC testing center, at test locations provided by the math division, or at another authorized testing site. If online testing is used students may be required to use a webcam while testing. For online testing students will be required to scan and upload supporting documents. Students may be asked to demonstrate knowledge/skills in a one-on-one conference if deemed necessary by the instructor.

TENTATIVE TEST SCHEDULE

This schedule is tentative and will most likely change as the semester progresses. It is provided so that you have a general idea of the order and speed with which we will be covering the material.

Assessment name	Tentative Date
Test 1	September 8
Test 2	September 29
Test 3	October 13
Test 4	November 3
Test 5	November 22
Final Exam	December 8

After the final exam there is NO more work a student can do to improve their grade.

LAST DAY TO WITHDRAW

Last day to withdraw from a course with a "W" is Monday, November 1, 2021.

MATH LAB

Students who need help with any math class can visit the NCTC Mathematics Lab to receive assistance. Sign up for an appointment or see the most current tutoring hours for all campuses at <http://www.nctc.edu/student-services/student-success/tutoring/mathematics-lab.html>.

DISABILITY SERVICES (OSD)

The Office for Students with Disabilities (OSD) provides accommodations for students who have a documented disability. On the Corinth Campus, go to room 160 or call 940-498-6207. On the Gainesville Campus, go to room 110 or call 940-668-4209. Students on the Bowie, Graham, Flower Mound, and online campuses should call 940-498-6207.

North Central Texas College is committed to both the spirit and letter of federal equal opportunity legislation, including the Americans with Disabilities Act (ADA) of 1990, ADA Amendments Act of 2009,

and Section 504 of the Rehabilitation Act of 1973 (P.L. 93-112). <https://www.nctc.edu/catalog/student-services/office-students-with-disabilities.html>

CORE CURRICULUM FOUNDATIONAL COMPONENT AREA (For classes in the Core)

- Communication
- X Mathematics**
- Life and Physical Science
- Language, Philosophy & Culture
- Creative Arts
- American History
- Government/Political Science
- Social and Behavioral Sciences
- Component Area Option

REQUIRED CORE OBJECTIVES (For classes in the Core)

- X Critical Thinking**
- X Communication**
- X Empirical and Quantitative**
- Teamwork
- Personal Responsibility
- Social Responsibility

COURSE TYPE

- Academic General Education Course (from ACGM but not in NCTC Core)
- X Academic NCTC Core Curriculum Course**
- WECM Course

STUDENT HANDBOOK

Students are expected to follow all rules and regulations found in the student handbook.

<https://www.nctc.edu/documents/academics/student-handbook.pdf>.

ACADEMIC DISHONESTY

Scholastic dishonesty shall include, but is not limited to cheating, plagiarism, academic falsification, intellectual property dishonesty, academic dishonesty facilitation and collusion. The use of online math solvers with submitted work is considered academic dishonesty. Faculty members may document and bring charges against a student who is engaged in or is suspected to be engaged in academic dishonesty. See Student Handbook, "Student Rights & Responsibilities: Student Conduct ([FLB(LOCAL)])".

Consequences for academic dishonesty may include:

- 1) Zero on the assignment
- 2) Failing grade for the course

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Instructional Dean:	Mary Martinson
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Telephone Number:	940.668.7731 ext. 4377
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Syllabi statement regarding potential Conversion of Onsite Classes to Online/Remote Format: North Central Texas College students should be aware that in the event of a college closure due to COVID-19 or other health related crisis, onsite classes will be converted to an online/remote format. Students should plan ahead to ensure they have access to the computer equipment (either PC, MAC, or tablet), webcam, and internet connectivity to continue their classes in an online/remote format. Please read all your official North Central Texas College student emails as the transition from onsite to online/remote might require a reorganization in your personal situation. Students will be granted a 72-hour transition and grace period. Online classes will continue as scheduled without disruption. Contact your Instructor as the situation arises. These policies and procedures were updated on July 27, 2021 and are subject to change as conditions change.

Syllabi Statement Regarding Face Coverings: Per the North Central Texas College guidance on face coverings on campus, in the instructional setting, faculty and students are not required to wear face coverings, such as masks or face shields. In May, Texas Governor Gregg Abbott released an Executive Order prohibiting Government entities from mandating the use of masks. As a political subdivision of the State of Texas, NCTC will follow the Governor's Executive Order for Government entities and effective immediately NCTC is no longer mandating the use of masks while on campus. This order does not mean that you cannot choose to wear a mask, rather it is no longer allowed to be mandated. These policies and procedures were updated on May 19, 2021 and are subject to change.

Return to Standard Attendance Protocol for Face-to-Face Meetings: In spring 2020, we faced an unprecedented situation in which all of us had to be flexible and make prudent decisions in the best interest of our families, our campus, and our community. In light of this, North Central Texas College is temporarily establishing the requirement that faculty keep records of student attendance for face-to-face course meetings as well as a documented seating chart. In addition, students who are sick or need to quarantine should not attend classes. Students will not be required to provide formal documentation from a health care provider and will not be penalized for COVID-19 related absences when proper notification to campus health officials is made in accordance with the guidelines stated below.

Faculty will:

- Notify students about important course information and delivery changes through Canvas and campus email.

Students should:

- Provide notification to campus officials if they have tested positive for COVID-19 or have to quarantine so we can confirm reported absence with instructors, monitor, and assist the campus community.
- Notify instructors in advance of the absence.

- Connect with that class through Webex if the class session is being transmitted in a hybrid fashion.
- Keep up with and/or make up missed classwork or assignments.
- Submit assignments digitally through Canvas or other means as announced by your instructor.
- Work with their instructors to reschedule exams, labs, and other critical academic activities described in the course syllabus.
- Check Canvas and campus email daily to receive important announcements pertaining to the course.

During the fall 2021 semester, faculty with face-to-face meetings will establish assigned seating/work stations to facilitate roll-taking, and, if necessary, contact tracing. Additionally, we ask all members of the College community to be attentive to their health, and safeguard others, by following the CDC's guideline to "stay home when you are sick." You should stay home if you have symptoms. More information on what to do if you are sick is available at the CDC's website.

Additional NCTC information is available at <http://www.nctc.edu/coronavirus/index.html>

CAMPUS POLICIES

Tobacco-Free Campus: NCTC restricts the use of all tobacco products, including cigarettes, e-cigarettes, cigars, pipes, and smokeless tobacco, on campus property.

Campus Carry: Campus Carry: Effective August 1, 2017, a license holder may carry a concealed handgun on or about the license holder's person while the license holder is on the campus of an institution of higher education or private or independent institution of higher education in this state. For more information, see the website at <https://www.nctc.edu/campus-safety/campus-carry.html>.

Parking Permits: The North Central Texas Community College District has managed traffic and parking regulations in order to ensure the safety of the campus community related to the operation and parking of vehicles on campus. These regulations apply to all operators of motor vehicles on campus. For parking permits and more information, see the website at <https://www.nctc.edu/campus-safety/transportation-parking.html>.