

MA-110 Intermediate Algebra

Amber Meis FORT HAYS TECH | NORTH CENTRAL

COURSE INFORMATION

The concepts of fundamental operations with real and imaginary numbers, symbolism used in Algebra, solving and graphing equations, and applications of these concepts to word problems will be developed. The course is designed for students who have only one year of high school algebra, are inadequately prepared for College Algebra, or score in the prescribed range on the placement exam. Topics covered include number systems, linear equations and equalities, polynomials, exponents, rational expressions, and quadratic equations.

Credits: 3

Pre/Corequisites:

• Prerequisite: Grade of C or better in MA-099 Basic Algebra or appropriate placement scores.

CLASS INFORMATION

Section Number: MA 110 Term: Spring Year: 2025 Start Date: 1/20/2025 End Date: 5/16/2025

INSTRUCTOR

Amber Meis Email: <u>ameis@fhtechnc.edu</u> Office Phone: 7856236153 Office Location: Classroom A Office Office Hours: M, W- 7:30 - 8:00, 10:30 - 11:00A.M.; T, R- 7:30- 8:00; 12:00- 12:30 P.M.; F- 7:30-8:30 A.M. or by appointment.

Email is the best way to communicate with me and get in contact with me for the fastest response. My email is <u>ameis@fhtechnc.edu.</u> I do get back to students within 48 business hours.

TEXTBOOKS

Cengage Unlimited Access Code- (one required) ISBN 9780357700037 (4 month term) ISBN 9780357700044 (12 month term- in case they feel they may need a year subscription).

Intermediate Algebra An Applied Approach, 9th ed. ISBN:9781133365402 by Aufmann & Lockwood. e-textbook comes with Cengage Unlimited Access. Can rent a physical copy of the book after signed into site for a minimal fee (was \$10 a semester but may have gone up a little).

SUPPLIES

Paper and Pencil

- Calculator (recommend graphing but not necessarily required)
- Computer

COURSE COMPETENCIES

- 1. Factor quadratic expressions, expressions of quadratic form, special forms, and factor by grouping.
- 2. Perform addition, subtraction, multiplication, and division on rational expressions.
- 3. Simplify complex fractions.
- 4. Apply the laws of exponents to simplify expressions containing rational exponents.
- 5. Apply the laws of radicals to perform addition, subtraction, and multiplication on expressions involving radicals. Rationalize denominators containing radicals.
- 6. Simplify radicals containing negative radicands. Perform arithmetic operations on complex numbers.
- 7. Evaluate functions using function notation.
- 8. Solve linear inequalities in one variable showing solutions both on the real number line and in interval notation.
- 9. Solve literal equations, including those that require factoring.
- 10. Solve systems of linear equations in two variables.
- 11. Solve equations by factoring and quadratic formula.
- 12. Solve equations containing rational expressions.
- 13. Solve equations involving radicals.
- 14. Solve linear absolute value equations and inequalities in one variable.
- 15. Develop and solve mathematical models including variation, mixture, motion, work, and geometrical applications.
- 16. Graph linear inequalities.
- 17. Graph quadratic functions.
- Determine an equation of a line given either sufficient information (two points) or a particular condition (perpendicular to a given line, parallel to a given line through a specific point, through a specific point with a given slope, etc.).
- 19. Calculate the distance between two points.
- 20. Distinguish between functions and relations using the Vertical Line Test.
- 21. Identify the domain and range of a function given its graph.

GRADING INFORMATION

Fort Hays Tech | North Central Grading Scale:

- A 100% -90%
- B 89% 80%
- C 79% 70%
- D 69% 60%
- F 59% and below

Instructor Grading-

Grading will be awarded on a total point basis.

Each category will be part of your grade:

Attendance/ Participation points added on a per-week basis

Chapter Online assignments

Quizzes

Notes

Application/Real-World Problem Completion

3 Unit Exams

1 Cumulative Final

Category	Percentage
Attendance/ Participation Points	15%
Tests (10% each)	30%
Final Exam	20%
Weekly Assignments/ Notes	25%
Quizzes	10%
Total	100%

Extra Credit will also be offered at about midway through the semester.

ACADEMIC HONESTY

Membership in the Fort Hays Tech | North Central learning community imposes upon the student a variety of commitments, obligations, and responsibilities. It is the policy of this College to impose sanctions on students who misrepresent their academic work. Appropriate classroom instructors or other designated persons will select these sanctions consistent with the seriousness of the violation and related considerations.

Examples of academic dishonesty include but are not limited to:

- Plagiarism: i.e. taking someone else's intellectual work and presenting it as one's own. Each department set standards of attribution. Faculty will include disciplinary or class-specific definitions in course syllabi.
- Cheating is unacceptable in any form. Examples include consultation of books, library materials, notes or
 intentional observation of another student's test on paper or a computer screen; accessing another student's
 answers from an exam to be given or in progress; submission of falsified data; alteration of exams or other
 academic exercises; and collaboration on projects where collaboration is forbidden.
- Falsification, forgery or alteration of any documents pertaining to assignments and examinations.
- The use of AI generated content from AI tools such as, but not limited to, ChatGPT, Dall-E, Co-Pilot, etc., is up to faculty discretion per course as stipulated within the course syllabus. Submitting AI generated work as your own, without attribution, will be considered academic dishonesty.
- In courses where the use of AI tools are not permitted as stipulated within the course syllabus, work submitted using AI will be considered academic dishonesty.
- Students who participate in, or assist with, cheating or plagiarism will also be in violation of this policy.

Classroom instructors and/or administrators will assess sanctions for violations of this policy. The seriousness of the violation will dictate the severity of the sanction imposed. Academic sanctions may include but are not limited to any of the following:

- 1. verbal or written warning
- 2. lowering of grade for an assignment
- 3. lowering of term grade

Administrative sanctions may include but are not limited to either of the following

- 1. Suspension from the course, program, or College
- 2. Dismissal from the course, program, or College

FORT HAYS TECH | NORTH CENTRAL MISSION STATEMENT

Fort Hays Tech | North Central delivers applied, innovative and personalized education to empower learners, enrich lives, develop skilled professionals and strengthen economic systems.

Vision Statement

Fort Hays Tech | North Central is dedicated to being a leader in workforce development by maximizing value for students, employers and communities through educational excellence.

Core Values

Achieving EXCELLENCE with INTEGRITY through

- DEDICATION
- INNOVATION
- COLLABORATION
- COMMUNICATION

FORT HAYS TECH | NORTH CENTRAL NON-DISCRIMINATION POLICY

Fort Hays Tech | North Central is committed to nondiscrimination on the basis of race, color, gender, ethnic or national origin, sex, sexual orientation, gender identity, marital status, religion, age, ancestry, disability, military status, or veteran status in admission or access to, or treatment or employment in, its programs and activities. Further, it is the policy of the college to prohibit harassment (including sexual harassment and sexual violence) of students and employees. Any person having inquiries concerning the college's compliance with the regulations implementing Title VI, Title VII, Title IX, Section 504, and the Americans with Disabilities Act Amendments Act is directed to the VP of Student and Instructional Services (Section 504/ADA Compliance Officer and Title VI, Title VII, & Title IX Compliance Officer) at (785)738-9055, cisbell@fhtechnc.edu, or PO Box 507, 3033 US Hwy 24, Beloit, KS 67420.

OVERVIEW FOR STUDENTS WITH DISABILITIES

Fort Hays Tech | North Central is dedicated to providing equal access and opportunity to all campus programs and services for students with disabilities. We are committed to providing reasonable accommodations in accordance with applicable state and federal laws including, but not limited to, Section 504 and 508 of the Federal Rehabilitation Act of 1973 and the Americans with Disabilities Act Amendments Act (ADAAA) of 2008. We strive to create a safe, respectful and inclusive environment and promote awareness, knowledge and self-advocacy.

Fort Hays Tech | North Central acknowledges that traditional methods, programs and services are not always appropriate or sufficient to accommodate the limitations experienced by some qualified persons with disabilities. When a student's disability prevents him/her from fulfilling a course requirement through conventional procedures, consideration will be given to alternatives, **keeping in mind that academic standards must be maintained**.

Services are provided through Student Accessibility Services (SAS) staff located in the Student Success Center, on the Beloit Campus, and in Student Services, on the Hays Campus.

• Director of Learning Services, may be reached at 1-785-738-9020; or by mail at Fort Hays Tech | North Central, 3033 US Hwy 24, Beloit, KS 67420.

Student Responsibilities

Students requesting support services will need to register ("self-disclose" and complete Student Accessibility Services Intake and Consent Form), provide appropriate documentation (if available) including how the disability affects academic performance and suggested accommodations, and communicate with the Director of Learning Services as part of the interactive process to create an *Educational Accommodation Plan* that will notify Instructors of approved accommodations, services and/or auxiliary aids.

Students are encouraged to make timely and appropriate disclosures and requests, at least two weeks in advance of a course, program, or activity for which an accommodation is requested (or as soon as realistically possible) to allow adequate time for accommodation services to be set in place.

Accommodations, Academic Support Services, or Auxiliary Aids

Reasonable accommodations including academic support services and auxiliary aids are provided to allow students with disabilities an equal opportunity to participate in and benefit from our educational programs. Accommodations will be provided on a case-by-case basis determined by student request, documentation, intake interview, Educational Accommodation Plan team, and assessment of individual needs and course requirements.

Reasonable testing accommodations may include, but are not limited to:

- Extended testing time
- Reduced distraction testing environment
- Test reader and/or scribe
- Use of calculator

Academic support services/auxiliary aids may include, but are not limited to:

- Note-taking assistance (second set of notes, power point slides, or other visual aids provided)
- Sign Language Interpreter
- Preferential seating in the classroom
- Large print exams, handouts, signs, etc.
- Telecommunications devices
- Use of Assistive Technology

Accommodations may not fundamentally alter the nature of the program or activity, lower academic standards, present undue financial or administrative burden on the college, or post a threat to others or public safety.

Additionally, some accommodations and services cannot be provided, such as personal devices or assistance with personal services.

Auxiliary aids may be available through a variety of sources available to individual students. The student may make a request in obtaining specialized support services from other resources such as Vocational Rehabilitation Services (VR), Recordings for the Blind, Kansas Talking Book Service, etc. For example, Vocational Rehabilitation may fund such items as transportation to the institution, tuition, textbooks, hearing aids, and other individually prescribed medical devices.

If at any time throughout the academic year, a student feels that the agreed upon accommodations are not being followed or that alternate accommodations need to be provided, the student should notify Student Accessibility Services (SAS) staff. Fort Hays Tech | North Central is committed to student success; however, we do not require students to use accommodations. The decision of when to utilize approved accommodations or services is up to the student. Integration, self-advocacy and individual responsibility are promoted and expected.

Grievance Procedure

Any student who believes he or she has been subjected to discrimination on the basis of disability or has been denied access or accommodations, shall have the right to invoke the Grievance Procedure.

Students are encouraged to first discuss their concerns with SAS. An attempt will be made to resolve the issue(s) causing concern by assisting the student in discussions with the person(s) involved. Most situations are positively resolved through this process. If the student does not feel the concern or complaint has been appropriately resolved, he or she should contact the Vice President of Student and Instructional Services at 1-800-658-4655 or PO Box 507, 3033 US Hwy 24, Beloit, KS 67420, where grievance procedures are filed for all students, including students with disabilities.

If the complaint is not resolved at the College level, a student may choose to file a complaint with the Office for Civil Rights at 1-816-268-0550 or U.S. Department of Education, One Petticoat Lane, 1010 Walnut Street, Suite 320, Kansas City, MO 64106.

Confidentiality

All information regarding a student's disability is confidential. All documentation will remain separate from academic records and will not be released to an individual or source external to Fort Hays Tech | North Central without the student's written consent. In order to provide effective services, it may be necessary to communicate limited information on a need-to-know basis regarding disability-related needs to Fort Hays Tech | North Central faculty and/or staff.

REASONABLE SUSPICION

If reasonable suspicion of substance abuse exists regarding an employee or student based on objective criteria (including, but not limited to, behavior, appearance, demeanor, detection of the odor of alcohol or any controlled substance), the employee or student will be requested to consent to drug testing performed by Fort Hays Tech | North Central's contract vendor at the expense of the college.

A. A college administrator (or their designee) shall drive the employee or student to the vendor's site for drug testing and shall return the employee or student to his/her residence (or arrange for transportation) following the testing.

B. Test results shall be sent directly to the college administrator, with a copy also sent to the employee or student. All test results will be considered confidential, access to the results will be limited to institutional personnel who have a legitimate need-to-know.

C. In the event of a positive test result, the employee or student may request a retest of the sample at the employee or student's expense. The request must be submitted within 24 hours.

D. Positive results for any illegal drugs, or prescription drugs (either not prescribed for the employee or student, or at levels above the prescribed dosage), or blood alcohol level of 0.04 or greater shall be grounds for disciplinary action, up to and including termination or expulsion.

E. Refusal to provide a specimen for this testing shall be treated as a positive drug test result.

F. Test results or specimens that have been determined to be altered by the employee or student shall be grounds for disciplinary action, up to and including termination or expulsion.

G. If the employee or student tests positive for an authorized prescription drug which may impair his/her performance or judgment, the employee or student may not be permitted to participate in college activities until he/she provides a doctor's release.

KANSAS CORE OUTCOME STATEMENT

The learning outcomes detailed in this syllabus meet, or exceed, the learning outcomes specified by the Kansas Core Outcomes Project for this course, as sanctioned by the Kansas Board of Regents.

GENERAL EDUCATION OUTCOMES

General education outcomes are academic foundation and life-long learning skills, knowledge, and perspectives identified as requirements for success by the faculty at North Central Kansas Technical College. They include skills such as written and oral communication, humanities, fine arts, math, science, and social science.

Prior to earning a certificate you will need to demonstrate that you have achieved the General Education Outcomes by completing all required performance assessments.

By achieving the competencies in this course, you will build some of skills, abilities, and attitudes required by the following general education outcomes: Mathematics

MUTUAL RESPECT

The mathematics classes are designed for collaboration rather than competition. That means that each member of the class supports the others in their efforts to succeed. Be sure to come to each class prepared to:

- 1. Listen with respect.
- 2. Speak with respect.
- 3. Contribute actively to the work of your team.

Attendance Policy:

- Attendance in class if very important. Please sign in and complete your assignment every week. Completion of homework is how you will pass this course.
- This class has three components to it. First, I ask that you watch my intro video and take notes over it. This IS NOT in any way a full teaching of concepts for the unit you are on but it gets basic understanding out of the way and aids you to be able to complete the problems. I have also added notes for you to take on this video. I would like you to do that as it shows that you are actually watching the videos. Please do not look up the information on an independent site and write that information. I only want you to write what is in the video and you will be graded for that only. Secondly, you are asked and required to complete an assignment online through Cengage's WebAssign. Lastly, you will have some "real world" problems that you will also have to complete. These should be harder than the online problems and show you where you encounter these concepts in your everyday life. I call these the extension problems because they extend your learning of the material. ALL of this will be graded and given grades on (the notes, online assignment, and extension problems).

Assignment Policy:

- You are permitted and encouraged to use a calculator for this class. It should be a calculator that gives you the ability to raise a number to a large exponent.
- Late assignments are generally NOT accepted after the due date. If something comes up and you feel that it may warrant me giving you extra time, please ask. I may say yes, especially if it is BEFORE the weekend that the assignment is due. Do not wait until the weekend that the assignment is due and then say that you were not able to get online that weekend. You will have most generally 2 weeks to complete the assignments so that is not a reason to not get it finished. Plus, it is always better to have the assignment due ahead of time in order to ask questions about problems you may be struggling with. You will possibly see the exact same problems on your exams so knowing how to complete the problems CORRECTLY would be the purpose of the homework. Also, I am a lot easier to get ahold of and answer your questions during the week than on the weekends.
- Due dates will be as follows: All assignments are due on Sundays, at 11:59 P.M. after completing the entire chapter and BEFORE moving on to the next chapter on Monday.
- About the paper problems- these are meant to be more difficult than the WebAssign. These problems are used to help you think deeply about the subject and the problems and incorporate the learning that you have had that week. These problems come directly out of the book and can be used for greater understanding of the subject. Also, if you are needing a little extra help, I will be available to give that to you by emailing me and asking me for help with what concepts you are not understanding.
- You will have 5 opportunities to get the right answer (on the online problems). This will help you to get a full understanding of the material and concept. If you miss the problem 3 times, please reach out to me and ask what you are doing wrong. In doing that, please send me a picture of your work so I can tell you where you are going wrong and start the problem for you correctly by sending you a picture of my work of the problem. There is also a place on your problems that says "ask the teacher" and if you use that at least describe the process you have gone through to get the right answers so I can assist you in where you went wrong. If you use this feature, please email me that you did as it does not always tell me and I would like to get your question answered in a timely manner. If you would rather send me a picture of your work, put that you have sent that in your "ask the teacher" request and send me the picture of the work to my email address, <u>ameis@fhtechnc.edu</u>. Just in case, I do always get back to students within 48 business hours (weekends may take a little longer) so if you do not get a message within 48 hours from me, I did not get your message and you need to email me back. Moodle is a good place to send instant messages to each other if you want to use that. I will use that platform a lot.

- To turn in assignments- these are the criteria in order to get them turned in correctly. First, the online will come to me directly. The online assignment will no longer be available after the due date and time so make sure that you have the assignment completed by then. I highly recommend you taking a screenshot of your total at the top of the page so that if something happens and it does not transfer correctly, you have the ability to show me what you made. If the internet goes down when you are doing your assignment, you will not know it. You will continue with the assignment and then the grade will not be transferred in to me and will show a zero as the grade. This is why I highly suggest taking that screenshot. Please make sure that the assignment title is in the screenshot with the grade so I can give you credit for the right assignment. Secondly, your notes and extension problems should be sent to my email. It is VERY helpful if you do this in ONE email so I do not have to search for your work in more than one email. If you do not know how to do this, here are instructions. Open up your email and put my email as your contact. For RE: put "chapter _ work" or something of that nature. RE: means what is the reason or content that is in your email to me, it does not mean that you write a sentence or paragraph to me in that area. This is a summary of what you will put in the body of the email. (You would be surprised how many people do not know this so that is why I am telling you.) Then in the body, you will put that you are including as attachments your notes and extension problems for chapter ____ (whatever it is). Click on the insert button at the top right-hand corner and insert the pictures of your assignment or your documents that have been saved on your computer. IMPORTANT: PLEASE be aware that if you save your document (which you will), you MUST change the name of it or it WILL NOT SAVE. An easy way to do that is to add a .last name (dot [your] last name) after the assignment title. This will make sure that it is saved to your computer with the answers on it. If you do not do this, you will not get credit for the assignment as there will not be anything there. If you add pictures to turn in your assignments, please make sure that you have every page and that your picture shows the entire page of work.
- After submitting your notes and extension problems, I will go over them and give you information as to what you need to change for them to correct etc. Please take these comments as me trying to make sure that you have the information that you need to be successful. Read through it and change your work so that it reflects my comments. This is helpful for you in the future. You are able to use ALL materials for your exam so you will want these to be as accurate as possible as you go into your exams.
- After submitting your notes and extension problems, I will go over them and give email you information as to what you the assignments should have had as answers. You will need to change the answers for them to correct etc. Please take these comments as me trying to make sure that you have the information that you need to be successful. Read through it and change your work so that it reflects my comments. This is helpful for you in the future. You are able to use ALL materials for your exam so you will want these to be as accurate as possible as you go into your exams.

Videos:

For my face-to-face classes, I use what is known as a "flipped classroom" approach to teaching. This means that I video the basics of the lesson and send it to my students. I have those videos for you to access so they can help you as well. I have also left the notes for you to download and take notes on the video. These videos are not for your entertainment value and are only to be used for the purpose of providing information to you about the concepts of the chapter. Then the students will come to class and work on the problems in class while I am present so I can assist them if they need it. Another good reason I video the lesson, some of you may only need to hear it one time, and you can get the process down. There are some of you, though, that require more exposures to the content than that and this provides you the opportunity to rewatch the videos at your convenience.

I will also be working on getting some videos of me teaching the lessons in class in real time, if possible. If that happens, I will let you know that I have the videos uploaded when I have taught the lesson live.

AI Policy:

The use of generative AI tools (such as Chat GPT, Dali-e, etc.) is permitted in this course for the following activities:

- Brainstorming
- Fine tuning your research question
- Drafting and outlining

The use of generative AI tools is not permitted in this course for the following activities:

- Impersonating you in classroom contexts such as using the tools to compose discussion board prompts and answers.
- Completing group or individual work assignments
- Writing a draft of a writing assignment.

Your use of AI tools must be properly documented and cited in order to stay away from university policies on academic honesty. You should always look up and research any information that an AI tool gives in order to make sure that the information is accurate. This includes times when you use it to fine tune your writing and make it better. I will run your assignments through AI checkers and if it shows that you have used an AI tool, you will not be given credit for it.

If you are suspected of academic dishonesty, you will not be given credit for your assignment and will be given a written warning concerning the suspicions of you using someone else's ideas/ answers for your answers. If this happens a second time, you will receive a zero for the course and could be recommended to be expelled from the college, as the academic honesty policy states. If you choose to work together, I am okay with that but working together does not mean that you take each other's papers and copy the answers. Working together would be two (or more) people sitting together and doing their work while discussing how to get the right answers and agreeing on those problems while learning from each other.

Proctor:

You will have to find a proctor for testing. This person can be a teacher from another school or college, someone who is an instructor in another class for you, or another suitable person that is listed on the information for selecting an exam proctor page that is located in your Moodle shell. Please do not wait to get this accomplished. Your first exam will sneak up on you faster than you think and there will be extra points given to those who have it done by the due date.

On your exams, you will be able to use all of your materials. The only thing that you are not permitted to use will be your phone and another individual. This is why notes and writing out your problems along with the way you solve them is very important in this class. You will be able to use those on your exams.

Office Hours:

I will hold office hours for the class on a day that will be announced. This is a time when you can talk with me on Microsoft Teams, get questions answered, and/ or help from me. I am also available for you to tutor you, answer questions, go over material, or anything that you need by emailing me and asking. I do make myself as available as possible for my students and wish for you to succeed so I encourage you to reach out and ask for assistance. If it is needed. If you do not do this and you need help, I will not know that you need help. DISCLAIMER: Because this is an online class, it is mainly a self-study type of class. You will be responsible for most of the learning on your own. Your book is a great resource as it shows you have to deal with the concepts step by step. Being able to do this, makes you a good student and will help you become a lifelong learner. It is NOT a bad thing that you go and learn on your own. I hope that you are aware of that going in to this. I will not be available to do every type of problem that you may have on your assignment. That is not something that happens in an online class but I can assist you with various problems or issues that you are having.

There are other places, besides your book, that I recommend that you look at if you have issues and need help (in the event that you have tried contacting me but I have not gotten back to you). One is Khan academy. This guy is great and has many videos that are uploaded to help math students out. There are also apps out there that will show you step-by-step how to complete problems. I only suggest you use these in order to find out how to do the problems so that you are able to complete them correctly on the exam. You will NOT be able to use an app on the exam, so do not become reliant on one for your assignments.

Another resource is our Brainfuse Tutoring on your Moodle Platform. It will be located at the bottom of the general area (top part before the dates start) of your page. This is a 24 hour a day/ 7 day a week online tutoring service that Fort Hays Tech | North Central uses. Your scientific calculator may be able to help you as well. With these, you can use the formulas and put the numbers in where appropriate and then have the answer. If you figure this out, it is a life and time saver. You can look up instructions on this by using YouTube and putting in your calculator's name and then searching what you are looking to learn how to do. There should be videos there to instruct you how to do these types of problems.

Class Importance:

- 1. Use calculator when possible
- 2. If you have any questions, please ask.
- 3. It is always okay to make mistakes in class! I will, you will, the other classmates will too. Please welcome this. Learn from them.
- 4. Know that I am here to help you. I want you to be successful. I spend a lot of my free time helping students individually and would not hesitate to help you. I can at least point you in the right direction if you have questions. I will work with you if you work with me, but I cannot be the only one that wants you to succeed and I cannot help you if you do not ask.
- 5. It would be helpful if you show every step of your problems on paper so you have them on your test or when you need assistance. If you do not show your work on the problems on the paper that does not help you much on the test. It is also difficult to help you with questions if you do not show your work. If you need assistance, I am going to ask to show me what work you have completed before trying to help you (so I know what you are doing wrong) to get the correct answer.
- 6. Show up to class, participate, do your homework, and study twice as many hours out of class as you attend class per week. If you put in the effort, you will get the result you want.

Week	Date	Chapter(s)	Activities	Competencies
Week 1	Jan 20-26		Intro to Class	
Week 2	Jan 27-Feb 2	Chapter 1	Lecture/ Discussion Classwork/ Problems WebAssign Lesson Video/ Notes	Solve linear inequalities in one variable showing solutions both on the real number line and in interval notation.
Week 3	Feb 3- 9	Chapter 2	Lecture/ Discussion Classwork/ Problems WebAssign Lesson	Solve linear inequalities in one variable showing solutions both on the real number line and in interval notation.

Intermediate Algebra Spring Online 24 Schedule

			Video/ Notes	Develop and solve mathematical models including variation, mixture, motion, work, and geometrical applications.
Week 4	Feb 10-16	Chapter 2	Lecture/ Discussion Classwork/ Problems WebAssign Lesson Video/ Notes	Same as above
Week 5	Feb 17-23	Chapter 2	Problem Solving Packet Test 1 (Ch 1-2)	Same as above
Week 6	Feb 24-Mar 2	Chapter 3	Lecture/ Discussion Classwork/ Problems WebAssign Lesson Video/ Notes	 Evaluate functions using function notation. Solve linear inequalities in one variable showing solutions both on the real number line and in interval notation. Solve equations by factoring and quadratic formula. Solve linear absolute value equations and inequalities in one variable. Graph linear inequalities. Graph quadratic functions. Determine an equation of a line given either sufficient information (two points) or a particular condition (perpendicular to a given line, parallel to a given line through a specific point, through a specific point with a given slope, etc.). Calculate the distance between two points. Distinguish between functions and relations using the Vertical Line Test. Identify the domain and range of a function given its graph.
Week 7	Mar 3 - 9	Chapter 3	Lecture/ Discussion Classwork/ Problems WebAssign Lesson Video/ Notes	Same as above
Week 8	Mar 10- 16	Chapter 4	Lecture/ Discussion Classwork/ Problems WebAssign Lesson Video/ Notes	Solve systems of linear equations in two variables.

	Mar 17 – 23		SPRING BREAK	
Week 9	Mar 24 - 30	Chapter 4	Lecture/ Discussion Classwork/ Problems WebAssign Lesson Video/ Notes	Same as above
Week 11	Mar 31- Apr 6		Test 2 (Ch 3, 4)	
Week 11	Mar 31 -Apr 6	Chapter 5	Lecture/ Discussion Classwork/ Problems WebAssign Lesson Video/ Notes	Factor quadratic expressions, expressions of quadratic form, special forms, and factor by grouping. Apply the laws of exponents to simplify expressions containing rational exponents
Week 12	Apr 7 - 13	Chapter 5 Chapter 6	Lecture/ Discussion Classwork/ Problems WebAssign Lesson Video/ Notes	Same as above (Ch 5) Solve literal equations, including those that require factoring. Perform addition, subtraction, multiplication, and division on rational expressions. Simplify complex fractions. Apply the laws of exponents to simplify expressions containing rational exponents. Solve equations containing rational expressions.
Week 13	Apr 14 - 20	Chapter 6	Lecture/ Discussion Classwork/ Problems WebAssign Lesson Video/ Notes	 Solve literal equations, including those that require factoring. Perform addition, subtraction, multiplication, and division on rational expressions. Simplify complex fractions. Apply the laws of exponents to simplify expressions containing rational exponents. Solve equations containing rational expressions.
Week 14	Apr 21 – 27	Chapter 7	Lecture/ Discussion Classwork/ Problems WebAssign Lesson Video/ Notes	Solve literal equations, including those that require factoring. Apply the laws of radicals to perform addition, subtraction, and multiplication on expressions involving radicals. Rationalize denominators containing radicals.

				Simplify radicals containing negative
				radicands. Perform arithmetic
				operations on complex numbers.
				Solve equations involving radicals
Week 15	Apr 28 – May 4	Chapter 7	Lecture/ Discussion	Same as above
			Classwork/ Problems	
			WebAssign Lesson	
			Video/ Notes	
Week 16	May 5- 11		Turn in Extra Credit	
			Test 3 (Ch 5, 6, 7)	
Week 17	May 12-15		Final Exam (Ch 1-7)	

"Education is the most powerful weapon which you can use to change the world." - Nelson Mandela

RIGHT TO MODIFY THE SYLLABUS

The instructor reserves the right to modify the syllabus during the semester. Students will be given advanced notice if a change would occur.