



Course Title and Number: MTH 95, Intermediate Algebra		Instructor: Benjamin Holt	
Year and Term: Winter 2024	Course Credits: 4	Office Location: Sitkum 2C	
Office Phone: 541-888-7608	Office Hours: MW: 9 am – 9:50 am, TR: 10 am –11:30 am	Class Location: Sitkum 10	
Meeting Time/Days: TR 12:00 pm – 1:50 pm		Email Address: benjamin.holt@socc.edu (PLEASE use Canvas or your socc.edu account! I will not reply to emails from any other place.)	
Web Page Address: https://holt.blue/MTH_95/homepage.html		Fax Number:	

Course Description <i>(as it appears in the approved College Course Outline)</i>	Prerequisite(s): MTH 65. A study of the concepts and principles considered in intermediate algebra. Topics include: Radical expressions and equations, complex numbers, quadratic equations, quadratic functions and their graphs, conic sections; absolute value equations and inequalities; absolute value functions and their graphs.
Course Objectives Reflecting Expected Student Learning Outcomes	Upon completion of the course the learner will: 1) Evaluate and simplify radical expressions 2) Solve radical equations 3) Be capable at working with complex numbers 4) Solve quadratic equations using different techniques (factoring, square root property, completing the square, and the Quadratic Formula) 5) Work with quadratic function applications 6) Write the equations of graphs of conic sections 7) Graph different conic sections based on their equations 8) Solve absolute value equations and inequalities 9) Graph absolute value functions
Grading	Course Requirements: Pre-Class Time Video Lectures: Before every class time there will be two video lectures for you to watch before each class session. I strongly advise taking <u>handwritten notes</u> (which you may use on exams) during these videos and writing down questions you might have about the material. Please see the course schedule on the last page of this syllabus. Topics listed those you are expected to watch before class that day. Participation During each class time, you will be randomly assigned to groups and each group will get a problem from the homework question bank. This will give you a chance to work with homework problems in a group setting. Each group will be assigned a problem to solve and present at the board.



ECPP (Extra-Credit Problem+Presentation): To reward your diligence for 1) showing up to class and 2) watching the course videos ahead of time and taking notes, I will award extra credit for extra participation. For presenting a problem at the board, a group will receive 1 extra-credit participation point. If the solution and answer are correct, the group presenting will receive yet another extra-credit participation point. So, each group can earn up to 2 extra points for participation each class time.

Each participation session is worth 20 points. Students who are late will be awarded partial points at my discretion; the amount of points will depend on how late the student is. Points for missed sessions cannot be made up.

myOpenMath Homework: There will be a homework assignment for each section we cover in this course. Each assignment is completed in Canvas. On each homework problem you have 100 attempts. Any problem on an assignment can be swapped for another one at a 20% penalty on the points for that problem. The due dates for all assignments are given in the course schedule on the last page of this syllabus and are also on Canvas.

Each assignment grade is a percentage. Your average of these percentages is your homework grade. Your homework grade is worth 25% of the course grade.

Late homework assignments can be made up with a late pass which extends the homework due date by 72 hours. You have a total of 6 late passes for the term. Please use them only when you really need them.

Exams: There will be three exams over the course of the term covering material up to each exam. Every exam will consist of 10 questions drawn randomly from a multiple-choice test question bank which consists of problems taken from myOpenMath homework. Each exam is worth 25% percent of the course grade.

For all 3 exams, there are optional practice exam assignments in Canvas which will give you a very good idea of what could show up on an exam. As you will see from using the above resource, none of the exams will be cumulative.

Calculators & Technology: For the exam you may use the TI 30XIIS or TI Multi-view calculator. If there is another calculator that you would like to use, you need to get permission with me beforehand. You **MAY NOT** use any online resources during the exam.

Handwritten Notes: For the exam you may use your handwritten notes. You **MAY NOT** use any online resources during the exam.



	<p><u>Students who need reasonable accommodation should contact the instructor or call Disability Services for Students at 541-888-7405.</u></p> <p>Policy on Missed Exams: If for reasons beyond your control (travel arrangements are not acceptable reasons), you will be absent on the day of an exam, you must let me know BEFORE THE EXAM so we can discuss options. If either 1) you can't provide an acceptable reason <u>or</u> 2) you don't let me know before the exam, you forfeit the opportunity to take the exam for full credit. Unjustified make-up exams are worth 80% of full credit (a reduction of 2 full letter grades). All make-up exams must be taken BEFORE the next exam.</p> <p>Grading Scale and Standards:</p> <p>Your course grade is determined by the following items and their associated weights:</p> <table data-bbox="576 835 1481 1018"> <tr> <td>myOpenMath Homework Each assignment grade is out of 100%</td> <td>20%</td> </tr> <tr> <td>Participation+ECPPs</td> <td>20%</td> </tr> <tr> <td>Exam 1 Roots & Radicals (Chapter 8)</td> <td>20%</td> </tr> <tr> <td>Exam 2 Quadratics (Chapter 9)</td> <td>20%</td> </tr> <tr> <td>Exam 3 Conic Sections & Absolute Value (Chapters 11 & 2)</td> <td>20%</td> </tr> </table> <p>The letter grade equivalents to the above course grade are: $90 \leq \text{Course Grade} < 100$ A $80 \leq \text{Course Grade} < 90$ B $70 \leq \text{Course Grade} < 80$ C $60 \leq \text{Course Grade} < 70$ D $\text{Course Grade} < 60$ F</p> <p>Disclaimer Regarding Changes: The policies outlined in this syllabus are subject to change with prior notice.</p> <p>Please Note:</p> <ul style="list-style-type: none"> 1. No graded items will be accepted past the deadline 11:59 pm on the day of the final exam. 2. Your final course grade will NOT be rounded up no matter how close it is to the next letter grade. Ample opportunity is provided during the term to earn the grade you want and it is your job to make sure your grade lands where you want it. <p><i>Attendance</i> For institutional purposes, attendance will be taken.</p>	myOpenMath Homework Each assignment grade is out of 100%	20%	Participation+ECPPs	20%	Exam 1 Roots & Radicals (Chapter 8)	20%	Exam 2 Quadratics (Chapter 9)	20%	Exam 3 Conic Sections & Absolute Value (Chapters 11 & 2)	20%
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Exam 3 Conic Sections & Absolute Value (Chapters 11 & 2)	20%										
Text(s)	<p>Optional Text: Open Stax Intermediate Algebra, by Lynn Marecek. The electronic version (ISBN 978-1-947172-26-5) is freely available on the course website, and printed copies (ISBN 978-0-9986257-2-0) are available in the campus</p>										



	bookstore for purchase.
Term Calendar <i>(The instructor reserves the right to alter dates of presentations and exams/projects.)</i>	Please see the last page of this syllabus.
Prerequisites	MTH 65 is a prerequisite for this course. If you did not pass MTH 65 with a "C" or higher, you may be administratively withdrawn from this course within the refund period. This withdrawal could affect your financial aid and/or academic standing. If you are uncertain about whether you have passed MTH 65 with a "C" or higher, check MyLakerLink or with your advisor within the first week of class to ensure you have met the course prerequisites.
Availability of Tutoring, Learning Lab, Academic Support	In addition to office hours I highly recommend that you visit the tutoring center on the 3rd floor of the Tioga building. There are tutors there waiting to help you! Also, tutoring services are FREEEEEEEEEEEEEEEEEEEEEE!!!!



Policies and Guidelines

Components marked with asterisk (*) are required for every syllabus.

* Course Hours

Southwestern's Credit Hour Administrative Policy (APP 8191) stipulates that credit-bearing courses, regardless of delivery method, are scheduled and conducted in compliance with the definition of the credit hour as set forth in Section 600.2 and 600.24 of the Code of Federal Regulations and the NWCCU Policy on Credit Hour.

For this reason, students are expected to complete a minimum of two hours of out-of-class student work per credit hour each week for the quarter.

* Children in the Classroom

Children represent a disruptive element for the classroom. They also increase the risk of accidents occurring in the laboratory. For those reasons, children should not be brought to either the classroom or the laboratory.

* Academic Honesty: Plagiarism And Cheating

Cheating, plagiarism, and other acts of academic dishonesty are regarded as serious offenses. Instructors have the responsibility to submit, in a written report to the Dean of Students any such incident that cannot be resolved between the instructor and student. The policy of the Board of Education of Southwestern Oregon Community College on [Student Rights](#), [Student Code of Conduct](#), and [Student Grievance Procedure](#) outlines penalties ranging from admonition to expulsion from the class or college. In the policy, academic plagiarism is defined as: "The intentional submission for evaluation to a college instructor or administrator of material based, in significant part, on work done by someone other than the submitter without reasonable written indication to the evaluator of the material's true source." Academic cheating is defined as "The intentional submission for evaluation to a college instructor or administrator of material based, in part, on a source or sources forbidden by generally accepted standards or by regulation established by the evaluator and disclosed in a reasonable manner." The complete policy, student rights and responsibilities, penalties, and recourse through the Grievance Procedure can be found in the [Student Handbook](http://www.socc.edu/studentlife/pgs/bm~doc/socc-hb.pdf) (<http://www.socc.edu/studentlife/pgs/bm~doc/socc-hb.pdf>).

* Academic Ethics and Confidentiality

It is the responsibility of everyone engaged in the learning experience to respect the rights and feelings of their fellow learners. Information gathered in the classroom and from on-line discussions and exercises is to be considered confidential. At the same time, students must recognize that the instructor and the College cannot guarantee the confidentiality of what the student may choose to disclose. Students must use their own discretion when engaging in classroom discussion.

* Classroom Behavior

Instructors have the responsibility to set and maintain standards of classroom behavior appropriate to the discipline and method of teaching. Students may not engage in any activity which the instructor deems disruptive or counterproductive to the goals of the class. Students are required to keep cell phones, beepers, and pagers off during class lectures, unless there is permission in advance from the instructor. Instructors have the right to remove offending students from class. Repetition of the offense may result in expulsion from the course.

* Student Conduct

Opt #1: Students must read and be familiar with the Code of Conduct as published in the Student Handbook, policies and procedures as outlined in campus publications, Southwestern Oregon policies.

Opt. #2: Students in this (or any) program of study should be especially aware of the severe consequences of plagiarism. Students that submit work that is not their own will be dealt with quickly and severely. It will be the recommendation of the faculty to remove such students from the College.

Opt. #3: Students that have a concern regarding any inappropriate conduct should bring it to the attention of their instructor, advisor, or Department Chair immediately. Inappropriate conduct situations will be reviewed immediately.

Opt. #4: Students taking this course should be aware of the potential diversity of the artistic perception of the



participants - particularly as applicable to violence, artistic statements, and nudity. Please keep your material and remarks professional and appropriate and be sensitive to individuals that have views different than your own.

***Americans with Disability Act – Disability Accommodation Statement**

SWOCC recognizes the contribution that a diverse student body brings to the educational experience. If you have a documented disability that may require assistance, please contact the Accessible Education Office. If you are a student who already has approved accommodations, you are required to talk with your instructors sometime during the first two weeks of the term regarding the accommodations you intend to use in their course.

The Accessible Education Office is located on the Southwestern Coos Bay campus in Student Support Services, Stensland Hall. For more information:

1. Visit Accessible Education Services or
2. Call (541) 888-1578 or
3. Email jesse.graf@socc.edu

***Notice of Non-Discrimination**

Students, their families, employees and potential employees of the Southwestern Oregon Community College District are hereby notified that Southwestern Oregon Community College does not discriminate on the basis of race, color, gender, sexual orientation, marital status, religion, national origin, age, disability status, gender identity, or protected veterans in employment, education, or activities as set forth in compliance with federal and state statutes and regulations. Any persons having inquiries concerning Southwestern's compliance with Title II, Title IV, Title VI, Title VII, Title IX and/or Section 504 or wish to make a complaint may contact the College's Affirmative Action Officer:

Vice President of Administrative Services
Southwestern Oregon Community College
1988 Newmark Ave., Tioga Hall, Room 511
Coos Bay, OR 97420
(541) 888-7402

Southwestern Oregon Community College offers the following career and technical education programs for all students regardless of race, color, gender, sexual orientation, marital status, religion, national origin, age, disability status, gender identity or protected veteran status, including those with limited English proficiency: Business, Office Technology, Computer Technology, Childhood Education, Criminal Justice, Culinary, Fire Sciences, Health Sciences, and Welding and Fabrication. Persons seeking further information concerning the vocational education offerings and specific pre-requisite criteria should contact:

Ali Mageehon, Vice President of Instruction and Student Services
Southwestern Oregon Community College
1988 Newmark Ave., Tioga Hall, Room 506
Coos Bay, OR 97420
(541) 888-7417 ali.mageehon@socc.edu

***Grievances**

For more information on the grievance process visit the Student Handbook.



Class Cancellations (Faculty Absence)

Notices of class cancellations at SWOCC are made through an automated system called RAVE. Notices of class cancellations due to faculty absence will be sent to through the following devices: Voicemail to cell phone, text to cell phone, and email to college email account. To receive these important notices, please update your cell phone, telephone and email contact information through myLakerLink, click on the Student Information tab, then Rave User Portlet.

Cell Phone Use Policy

Given the disruptive potential posed by cell phones, students are required to keep cell phones off during class lectures. Use of cell phones during laboratory exercises are permissible, but please consider those around you.



Day	Topic	Due
T 1/9	Course Introduction	Intro Assignment
R 1/11	Section 8.1: Simplifying Expressions with Roots Section 8.2: Simplifying Radical Expressions	
T 1/16	Section 8.3: Rational Exponents Section 8.4: Adding, Subtracting, Multiplying Radical Expressions	Sections 8.1, 8.2
R 1/18	Section 8.5: Dividing Radical Expressions and Rationalizing Denominators Section 8.6: Solving Radical Equations	
T 1/23	Section 8.7: Functions Involving Radicals Section 8.8: Complex Numbers	Sections 8.3, 8.4, 8.5, 8.6
R 1/25	Homework Help	
T 1/30	Review	Sections 8.7, 8.8
R 2/1	Exam 1: Sections 8.1-8.8	
T 2/6	Section 9.1: Solving Quadratics: Square Root Property Section 9.2: Solving Quadratics: Completing the Square	
R 2/8	Section 9.3: Solving Quadratics: Quadratic Formula Section 9.4: Solving Equations Using Quadratic Methods	
T 2/13	Section 9.5: Applications of Quadratic Equations (Part 1) Section 9.5: Applications of Quadratic Equations (Part 2)	Sections 9.1, 9.2, 9.3, 9.4
R 2/15	Section 9.6: Graphs of Quadratic Functions Using Properties	
T 2/20	Section 9.7: Graphs of Quadratic Functions Using Transformations	Sections 9.5, 9.6
R 2/22	Review	
T 2/27	Exam 2: Sections 9.1-9.7	Section 9.7
R 2/29	Section 11.1: Conic Sections: Circles Section 11.2: Conic Sections: Parabolas	
T 3/5	Section 11.3: Conic Sections: Ellipses Section 11.4: Conic Sections: Hyperbolas	Sections 11.1, 11.2
R 3/7	Section 2.6: Compound Inequalities Section 2.7 (Part 1): Absolute Value Equations	
T 3/12	Section 2.7 (Part 2): Absolute Value Inequalities Section 2.X: Absolute Value Functions	Sections 11.3, 11.4, 2.6, 2.7 (Part 1)
R 3/14	Review	
T 3/19	Exam 3: Sections 11.1-11.4 & 2.6, 2.7, 2.X	Sections 2.7 (Part 2), 2.X