

# VALENCIA COLLEGE

## 202410 Intermediate Algebra MAT-1033C-14434

### Course Syllabus

Fall - Full Term - 2023

Professor Cesar Leal Ferreira, PhD

#### Class Information:

CRN	Mode	Time of Meetings	Campus
14434	F2F	MW / 04:00 – 05:15 PM / DPAC 251	Downtown Valencia/UCF Campus (DTC)

#### Important College Contacts

Executive Dean, DTC: Dr. Eugene Jones – 407-582-5508 / [ejones102@valenciacollege.edu](mailto:ejones102@valenciacollege.edu)

Math Coordinator: Prof. Roberta Carew – 407-582-5605 / [rbrown75@valenciacollege.edu](mailto:rbrown75@valenciacollege.edu)

Learning Center Manager: Ning Christopher – 407-582-1120 / [schristopher6@valenciacollege.edu](mailto:schristopher6@valenciacollege.edu)

Lab Supervisor: Amanda Forth – 407-582-5294 / [adagiau@valenciacollege.edu](mailto:adagiau@valenciacollege.edu)

#### Contact Information

College Website	<a href="http://www.valenciacollege.edu">www.valenciacollege.edu</a>
Department Phone Numbers	(407) – 582 – 3506
Instructor's E-mail	<a href="mailto:cferreira4@valenciacollege.edu">cferreira4@valenciacollege.edu</a>
Preferred contact method	Canvas Inbox Mail

#### Office Hours:

Days	Times	Location
MW	After class: 05:15 – 05:30 PM	DPAC RM 251

#### Cross-listed Course

The Downtown Campus is a partnership between Valencia College and UCF. Some of the offered courses are cross-listed, meaning that it is open for enrollment to students of both institutions. As a result, policies, resources and materials may differ from courses taught at other Valencia or UCF campuses.

#### Course Description and Structure

**Structure:** Lecture

**Description:** This course presents algebraic skills for MAC 1105. Topics include linear equations and inequalities in two variables and their graphs, systems of linear equations and inequalities, introductions to functions, factoring, algebraic functions, rational equations, radicals, rational exponents, complex numbers, quadratic equations, scientific notation, applications of the above topics and the communication of mathematics. Applications emphasizing connections with disciplines and the

real world will be included. This course carries general elective credit but does not satisfy either Gordon Rule or general education requirements.

### **Major Topics/ Concepts/ Skills/ Issues**

Factoring  
Algebraic Fractions  
Radicals and Rational Exponents  
Complex Numbers  
Quadratic Equations  
Rational Equations  
Linear Equations in Two Variables and Their Graphs  
Systems of Linear Equations and Inequalities  
Introduction to Functions  
Applications of the Above Topics  
Graphing Utilities

### **Required Materials**

- 1) Textbook:** It is available for free online.  
- Intermediate Algebra 2e from OpenStax, ISBN-13: 978-1-95169-324-4.  
- Link: <https://openstax.org/details/books/intermediate-algebra-2e>

You have several options to obtain this book:

- View Online.
- Download a PDF.
- Order a print copy.

**2) Scientific Calculator:** It is very important to know how to use scientific calculator for this course. Students can borrow a calculator from the Learning Center or from the Tech Desk for the day. Longer term loans might be available at the Math Department. If the student is interested in purchasing one that will be applicable also in future courses, the **TI-30XIIS** is a good option.

### **Course Components**

#### **Attendance**

- Attendance will be taken each class period.
- You are expected to be in class on time and to remain in class for the entire period. If you are not present when roll is taken or leave before class is dismissed you will be considered **tardy (1/2 absence)**.
- In general, aside from jury duty and military duty, all absences are counted equally toward to the attendance policy. Absences are excused solely at the discretion of the instructor, who may require that you prove the existence of extenuating circumstances before excusing any absence(s).
- You are responsible for any information and/or assignments given during class, whether you are present or not.
- In-class activities cannot be “made up.”

## Homework

- Homework is assigned in CANVAS for each section covered. Refer to the attached schedule for a list of all homework assignments and due dates.
- Homework can be completed after the due date for a **10% penalty** per day, per question.
- The **CANVAS INBOX** messenger is the most effective way to contact your instructor about individual homework or any general questions.

**Lab Component:** The course has a mandatory lab component. For Math courses, lab practice will mean time spent by the student practicing math problems with the availability of a tutor. Each student must spend a minimum of 50 minutes in the Learning Support Center (DPAC 330). Each student must log-in (or sign-in) at the front desk to receive credit for lab attendance.

**Tests:** There are 5 Mastery Tests, one for each unit, already scheduled (see attached schedule). Students should write their work to have full grade for each question. Questions with missing or wrong work will not be graded even if the answers were guessed right (the score will be zero). There is no make-up for the tests.

**Final Exam:** A cumulative final exam will be given **(See Schedule attached)**. The final exam must be taken in order to pass the course. If the student don't take the final exam or has a zero score in all questions, the overall grade for the course will be "F", even if the student complete all other assignments. The final exam is worth 20% of the overall grade otherwise. Questions with no work will not be graded (the score will be zero). There is no make-up for the Final Exam.

## Grading Policy

Assessment	Percentage of Overall Grade
Attendance	5%
Homework	25%
Lab component	15%
Mastery Tests	30%
Final Exam	20%
Total	100%

All grades will be calculated to the nearest tenth and rounded appropriately.

Percentage	Grade
90%-100%	<b>A</b>
80% - 89%	<b>B</b>
70% - 79%	<b>C</b>
60% - 69%	<b>D</b>
0% - 59%	<b>F</b>

## Make-Up Policy

Requests to make-up assignments and tests will only be considered before the Final Exam week, with outstanding and documented reason (medical condition, for example).

- For the sake of clarity, if students do not complete an assignment or test by the due date, a zero score will be automatically assigned for each incomplete question. Homework can be completed after the due date for a **10% penalty** per day on the questions completed after due date.
- The best practice is to contact the instructor BEFORE the due dates, if you experience any difficulties in meeting any deadlines.
- In the case of a prolonged absence due to illness, family emergency or any other extreme situation, communicate with me as soon as possible to create a plan for the best course of action.
- Make-Up Final Exam is not permitted.

## Withdraw Policy

Per Valencia Policy 4-07 (Academic Progress, Course Attendance and Grades, and Withdrawals), a student who does not attend class during the first week of class will be dropped from the course by the instructor.

- Per Valencia Policy 4-07 (Academic Progress, Course Attendance and Grades, and Withdrawals), a student who withdraws from class before the withdrawal deadline will receive a grade of "W."
  - **Important Dates and Deadlines, including withdrawal dates, may be found here:** <https://valenciacollege.edu/academics/calendar/>
- A student is not permitted to withdraw after the withdrawal deadline.
- **Important Note: The professor CANNOT withdraw students of the Downtown Campus - if needed, it is up to the student to process it.**

## Learning Support Center (LSC)

The Learning Support Center (LSC) at the Downtown campus offers free face-to-face and distance tutoring for a variety of courses, as well as free equipment rentals. Find out more about at the link: <https://valenciacollege.edu/students/learning-support/downtown/tutoring-center.php>

## Distance Tutoring & Technology Support at Valencia

To get started using the Distance Tutoring and Learning Technology Support services, please visit [www.valenciacollege.edu/tutoring](http://www.valenciacollege.edu/tutoring). Through this site, you can view the schedule of tutors/tech support assistants, find available times, learn more about the services, and access a collection of supplemental resources that are available 24/7.

## Academic Honesty

To set up a productive environment, where students learn from their work on assignments and assessments, where instructors can provide meaningful feedback that would help students' improvement, it is important to promote academic honesty. Plagiarism or cheating is extremely damaging to this environment. Possible consequences are **immediate removal from the class, an overall grade "F" and referral of the incident to the Dean of Student Affairs/Mathematics**. Examples of behavior that can be construed as cheating are: looking at somebody's paper, talking or whispering during a test, copying (including all take-home activities, examinations, and/or homework

assignments), use of a cellular phone or other electronic device without prior permission, suspicious behavior, or **failing to follow appropriate procedures** for taking a test as prescribed by the instructor.

### **Special Accommodations**

Students with disabilities who qualify for academic accommodations must provide a letter from the Office for Students with Disabilities (OSD) and discuss specific needs with the professor, preferably during the first two weeks of class. The Office for Students with Disabilities determines accommodations based on proper documentation of disabilities (Testing & Accessibility Office, Union West #210).

### **Student Resource for Assistance**

Valencia College is interested in making sure all our students have a rewarding and successful college experience. To that purpose, Valencia students can get immediate help with issues dealing with stress, anxiety, depression, adjustment difficulties, substance abuse, time management as well as relationship problems dealing with school, home, or work. BayCare Behavioral Health Student Assistance Program (SAP) services are free to all Valencia students and available 24 hours a day by calling (800) 878-5470. Free face-to-face counseling is also available.

### **Conduct - Valencia Student Core Competencies**

- You are encouraged to actively participate and ask pertinent questions during class. Courtesy will be observed at all times.
- Your attitude will greatly affect your ability to succeed in this course. It will also affect your classmates' attitudes should you choose to participate in class discussions. Always consider this carefully before you speak or act.
- **Cell phones, pagers, or other devices that are audible are not permitted to be on during class. Texting is not permitted during class.** Unplug yourself and make the most of class time! Personal electronic devices disrupt your learning as well as the learning of other students.
- To create a good environment for learning, avoid sidebar conversations with other students while work is being done at the board, rude comments or remarks, raised voices or confrontational comments. Follow instructions given by your instructor, who serves as your classroom manager.
- If your actions in class are deemed by your instructor to be disruptive, you will be asked to leave class immediately. If you are ever asked to leave class, you may be permitted to return to future class meetings after consultation with your instructor outside of class. You may also be required to arrange a conference with another college official before a determination is made on whether you will be attending class again.

Valencia Community College wants graduates to possess and demonstrate a set of global competencies including the ability to **THINK, COMMUNICATE, VALUE AND ACT**. To help you acquire and improve your ability to show the competencies this course will include activities that require you to:

1. Think clearly, critically and creatively.
2. Communicate with others in written and verbal form.
3. Make reasoned value judgments and responsible commitments.
4. Act purposefully, reflectively and responsibly.

## **Recording Lectures**

Students may record video and/or audio of class lectures for their personal use. Recordings may be a useful tool to support your learning and provide a resource for review. It is important to be respectful of your peers' rights to privacy; with that in mind, please refrain from recording your peers during lectures. You may not record class discussions, student presentations, labs, group work, and private conversations. Further, you may not publish or share recordings without my written consent, nor may you provide recordings to classmates as a substitution for class participation and attendance. If necessary, I will handle violations of this section through the College's Student Code of Conduct.

## **Communication Policy**

The instructor will only correspond with you through your Atlas e-mail or **Canvas (preferably)** only. Students are expected to **check Canvas inbox and announcements every week**. Students are expected to read and follow instructions sent by the instructor on time. The instructor will not correspond using other means as PDA, cell phone, SMS, Social Medias, or replying to non-Valencia mail accounts. All electronic communications should be respectful and professional. Students are encouraged to use complete sentences and proper grammar, but mistakes will not be judged or graded at all.

## **Other policies & Information**

**Computer/Equipment Use Policy:** This course relies on the use of technology to aid in your learning. You are expected to check Canvas and your e-mail at least once before class to ensure that you have the most current information. Computers are available on campus if you do not own one. If you experience any technical issues, call the support number below.

Canvas Help Desk: (407) 582-5600 or visit <https://valenciacollege.edu/students/learning-support/>

ATLAS Student Help Desk: (407) 582-5444 or <https://valenciacollege.edu/about/support/>

OIT Help Desk: (407)-582-5554

## **Amendment**

These policies may be amended in favor of the student's success in the course at the instructor's discretion.

## **Questions**

Students are welcomed to ask any questions regarding this Syllabus, using my contact information (Canvas inbox or email).

## **Attachment: Course Schedule**

**MAT 1033C SCHEDULE: FALL 2023**  
**CRN 14434 - F2F - MW**

<b>Dates</b>	<b>Assignment Name</b>	<b>Due dates of homework</b>
<b>Week 1</b>	<b>Lab worksheet 1</b>	
8/21	2.1. Use a General Strategy to Solve Linear Equations	8/27 @ 11:59 pm
8/22	Orientation with Learning Support Center and Course Labs <b>Learning Support Center</b> with Instructional Lab Supervisor	
<b>Week 2</b>	<b>Lab worksheet 2</b>	
8/28	2.2. Use a Problem Solving Strategy	9/4 @ 11:59 pm
8/30	2.3. Solve a Formula for a Specific Variable	
<b>Week 3</b>	<b>Lab worksheet 3</b> <b>(9/4 Labor day - School closed)</b>	
9/6	2.5. Solve Linear Inequalities 2.6. Solve Compound Inequalities	9/10 @ 11:59 pm
<b>Week 4</b>	<b>Lab worksheet 4</b>	
<b>9/11</b>	<b>Mastery Test 1 - Chapter 2 - In Classroom (due @ 9/11)</b>	9/17 @ 11:59 pm
9/11	3.1. Graph Linear Equations in Two Variables	
9/13	3.2. Slope of a Line	
<b>Week 5</b>	<b>Lab worksheet 5</b>	
9/18	3.3. Find the Equation of a Line	9/24 @ 11:59 pm
9/20	3.4. Graph Linear Inequalities in Two Variables	
<b>Week 6</b>	<b>Lab worksheet 6</b>	
9/25	3.5 Relations and Functions	10/1 @ 11:59 pm
9/27	3.6. Graphs of Functions	
<b>9/27</b>	<b>Mastery Test 2 - Chapter 3 - In Classroom (due @ 9/27)</b>	
<b>Week 7</b>	<b>Lab worksheet 7</b>	
10/2	Review: Dividing Polynomials	10/8 @ 11:59 pm
10/4	Review: Factoring Polynomials	
<b>Week 8</b>	<b>Lab worksheet 8</b>	
10/9	7.1. Multiply and Divide Rational Expressions	10/15 @ 11:59 pm
10/11	7.2. Add and Subtract Rational Expressions 7.3. Simplify Complex Rational Expressions	
<b>Week 9</b>	<b>Lab worksheet 9</b>	
10/16	7.4. Solve Rational Equations	10/22 @ 11:59 pm
10/18	7.5. Solve Applications with Rational Equations	
<b>10/18</b>	<b>Mastery Test 3 - Chapter 7 - In Classroom (due @ 10/18)</b>	
<b>Week 10</b>	<b>Lab worksheet 10</b>	
10/23	8.1. Simplify Expressions with Roots	10/29 @ 11:59 pm
10/25	8.2. Simplify Radical Expressions	
	8.3. Simplify Rational Exponents	

<b>Week 11</b>	<b>Lab worksheet 11</b>	11/5 @ 11:59 pm
10/30 11/01	8.4. Add, Subtract, and Multiply Radical Expressions 8.5. Divide Radical Expressions 8.6. Solve Radical Equations	
<b>11/01</b>	<b>Mastery Test 4 – Chapter 8 - In Classroom (due @ 11/01)</b>	
<b>Week 12</b>	<b>Lab worksheet 12</b>	11/12 @ 11:59 pm
11/6 11/8	9.1. Solve Equations Using the Square Root Property 9.2. Solve Quadratic Equations by Completing the Square 9.3. Solve Quadratic Equations Using the Quadratic Formula	
<b>Week 13</b>	<b>Lab worksheet 13</b>	
11/13 11/15	9.5. Solve Applications of Quadratic Equations 9.6. Graph Quadratic Functions Using Properties	11/19 @ 11:59 pm
<b>Week 14</b>	<b>No Lab: Thanksgiving (11/22 to 11/26 – School closed)</b>	11/26 @ 11:59 pm
11/20	8.8. Use the Complex Number System	
<b>Week 15</b>	<b>No Lab: Review for the Final Exam</b>	12/3 @ 11:59 pm
<b>11/27</b>	<b>Mastery Test 5 – Gen Ed Assessment - In Classroom (due @ 11/27)</b>	
11/27 11/29	4.1 Solve Systems of Linear Equations with Two Variables 4.2 Solve Applications with Systems of Equations	
<b>**Final Exam**</b>		
<b>12/4</b>	<b>Final Exam - 5:00 pm to 7:30 pm</b>	

**Important:**

- Homework may be completed after the due date with a 10% penalty per day.
- You are required to spend a **minimum of 50 minutes per week** in the Learning Support Center (DPAC Room 330).
- Mastery Tests and Final Exam are in classroom, on paper.
- ALL TESTS AND EXAM ARE SCHEDULED. BE PREPARED ACCORDING TO THE SCHEDULE.
- **There is NO MAKE-UP for Mastery-Tests and Final Exam.**