**MAC 1140C Section 0001 Precalculus, 3 credit hours**

**Fall 2021**

Department of Mathematics, College of Sciences

University of Central Florida

**Instructor: William Plemmons**

**Office: MSB402**

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**Modality: P (face to face)**

**Class: Tuesday/Thursday 09:00-10:20**

**Lab: Friday 13:30-14:50 MSB 240/241/242**

**Office hours: Monday/Wednesday 08:00-10:00, Tuesday/Thursday 08:00-08:30 or by appointment**

**Note: Where possible I will use the 24-hour clock to eliminate confusion about times**

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|  | **Course Modality:** This course is modality P which is face to face. The student is expected to attend class on Tuesday and Thursday in CB1-121. There is also a lab section that meet on Friday in MSB 240/241/242. I reserve the right to give the password to class quizzes in the classroom to help motivate the student to attend class. Any student caught disseminating the password to students who did not attend class will be reported to student conduct and both will be given an F for the course. |

**Course Description:** PR: Appropriate score on the UCF Math Placement exam, or MAC 1105C with a “C” (2.0) or better, or C.I. Inequalities.  High degree polynomials. Graphs, rational, logarithmic, and exponential functions.  Systems of equations. Properties and graphs of polynomials, rational, exponential and logarithmic functions, sequences and series, binomial theorem

**Course Goals:** This course is designed to familiarize the student with such fundamental mathematical concepts as polynomials, linear and quadratic equations, exponential functions, and logarithmic functions. Preparing the student for upper-level mathematics. In a mathematics course, understanding is established not just by familiarity with concepts, but also by being able to work math problems associated with the concepts. Therefore, do not assume you know something unless you can work the problems. Pre-requisites of a course are what you are assumed to know before you take the course.  It is assumed that you know all concepts associated with college algebra. Understanding pre-requisite knowledge is the responsibility of the student.

**Please note:** In a mathematics course, understanding is established not just by familiarity with concepts, but also by being able to work math problems associated with the concepts. Therefore, do not assume you know something unless you can work the problems.

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**Required Materials:**

1. **MyLabsMath (MLM) Access Code for Precalculus Fourth Edition** by **Sullivan and Sullivan**. Access code to be purchased through the First Day Program or the University Bookstore only. (Please note: First Day Program will be cheapest price available!)
2. **Regular notebook** (spiral-bound, binder) to keep neat and organized notes.
3. Suggested but not required a TI30xa calculator as that is the only calculator that will be allowed on tests. (Note that this calculator is provided on test days.)
4. 4 bluebook/greenbooks to be supplied by the student on test days. (No bluebook/greenbook no admittance to testing)
5. UCF ID is required for admittance to testing.

**MyLab Math (MLM) Access Code:**

**To purchase the MLM access code for about $63.00, you must go to the “Course Materials” link in your MAC1140 Webcourse, choose “Opt-In”, and then click ‘CONFIRM’.** You may do this through August 27th, 2021, 23:59, and the fee will be charged to your student account. If you neglect to do this by August 27th, 2021, or you choose “Opt-Out”, then **you will have to contact the UCF campus bookstore and pay $93.30 to continue to access MyLab Math.** If you have any questions, please contact the UCF campus bookstore manager.

We will access MyLab Math through Webcourses using a single sign-on feature.

**First Day Program for MyLab Math**

To enhance your learning experience and provide affordable access to the right course material, this course is part of an inclusive access model called First Day™. You can easily access the required materials for this course at a discounted price, and benefit from single sign-on access with no codes required in UCF Webcourses.

* All students enrolled in the course automatically have access to the MyLab Math digital textbook until at least January 14. You have until Friday, August 27th at 23:59 to select the "Opt-In" option. You can select the opt-in option by first clicking on the tab that says Course Materials.
  + If you select and confirm "Opt-In" by August 27th at 23:59, then your cost for the semester is about **$63.00.** It is highly recommended that you do this now!
  + If you do not select and confirm "Opt-In" before August 27th at 23:59, then your cost for the semester is **$93.30.**

If you do not opt-in by the deadline, your MyLab Math access will be terminated within 2 business days after the deadline. If you wish to continue your MyLab Math access but did not opt-in, you may purchase access through the UCF bookstore at the opt-out Price. Access will be restored within 1-2 business days of your purchase.

Please note: To opt-in you need to click on the Course Materials tab, check "Opt-In", then click confirm.

**Note:** Chrome is the recommended web browser for Webcourses and MyLab Math. If you are using an Apple product and/or Safari, there is some likelihood that you will have technical difficulties accessing MyLab Math. If you are having trouble accessing MyLab Math, first try clearing your browser cookies/history/cache. If this doesn't work, try completely powering down your computer and restarting. Try using either Chrome or Firefox. If you are still having issues, please navigate to  <https://support.pearson.com/getsupport> to contact technical support.

**Required Academic Activity**

As of Fall 2014, all faculty members are required to document students' academic activity at the beginning of each course. In order to document that you began this course, please complete the following academic activity by the end of the first week of classes, REQUIRED ACADEMIC ACTIVITY quiz in Webcourses no later Friday, the first week of class by 23:59. Failure to do so may result in a delay in the disbursement of your financial aid.

**Instructional Resources**

* The modules in Webcourses
  + Each module will contain lecture notes, videos, animations, guided visualizations, and interactive figures
* Office Hours
  + These are drop-by question-and-answer sessions where you may stop by a live streaming Zoom session and ask any question you wish. Zoom office hour links will be sent using webcourse announcements.
* Online Tutoring session
  + Live streaming tutoring session with our learning assistant.
* Virtual Tutoring from the Math Success Center
  + Additional tutoring offered by the Math Success Center (MSC). You should receive an invitation to join the MSC Webcourse.

**Course Structure**

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| --- | --- |
|  | |
| **Homework assignments**  Homework assignments will be in Pearson’s MyLab Math and can be accessed via the link in webcourses.  The Math Success Center will also be open for virtual tutoring throughout the week. | **10% of the course grade**  **At least one dropped** |
| **MALL Quizzes**  There will be a MALL Quiz that must be performed in the MALL. On test week that quiz will be done at home, | **10% of the course grade**  **At least one dropped** |
| **Class Quizzes**  There will be class quizzes that are password protected the password to be given out in class. Dissemination of the password to students who are not in class will be reported to student conduct | **5% of course grade**  **At least one dropped** |
| **Three Tests**  Test 1: Friday September 17 during your normal MALL lab hour  Test 2: Friday October 15 during your normal MALL lab hour  Test 3: Friday November 19 during your normal MALL lab hour | **Test 1, 2 and 3 are 50% of the course grade (lowest test score dropped)** |
| **Final:**  Final is December 6-10 student will sign up for a test reservation that best fits with the student’s schedule. Reservation site TBD.  **\*No student should make travel plans prior to or on test days.** | **Final is not subject to being dropped and is worth 25% of total grade** |

**Assignment and Exam Policy**

**Each homework** can be worked as long as it is open. It is expected that students will take multiple sessions to finish each assignment, working through Help Me Solve It and taking notes as you go.

**Each quiz** must be finished in one session. You have at least 2 attempts on each MyLab Math quiz and one attempt on each in-class quiz.

Because UCF allows late registration in this course until Friday at 23:59. The first week’s assignments of homework and quiz will be open until Wednesday of week 2. This fact does not preclude the opening of week 2 assignments while week 1 is still open. Do not schedule your workload by due dates.

MALL has open hours where any student may enter to get help, open hours are Monday-Thursday 16:00-18:00.

**Makeup Exam Information/ Makeup Work**

There will be no make-up exams or late work accepted except in the following events:

1. Military orders: Students who are deployed active-duty military and/or National Guard personnel and require accommodation should contact their instructors as soon as possible after the semester begins and/or after they receive notification of deployment to make related arrangements.
2. Court summons: Provide a copy of your court summons prior to the exam.
3. University authorized event: Provide the signed Program Verification Form prior to the exam.
4. Religious observance: A student who desires to observe a religious holy day of his or her religious faith must notify the instructor at the beginning of the term (within the 10th business day of the term) to be excused from classes to observe a religious holy day. <https://regulations.ucf.edu/chapter5/documents/5.020ReligiousObservancesFINALJan19.pdf>
5. Documented emergency: Examples of this include death in the immediate family, major car accident, hospitalization, etc. A makeup plan for a documented emergency will occur solely at the discretion of the instructor and the instructor must be notified through email or Webcourses by the student before the exam with appropriate documentation provided.
6. All make-ups must be done within 7 days of the exam or in the case of military duty 7 day after the return to class.
7. Travel plans are not a valid reason for a make-up test.

**Grading Scale:**

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| --- | --- |
| Average | Grade |
| 90 – 100% | A |
| 80 – 89% | B |
| 70 -- 79% | C |
| 40 -- 69% | NC  (Not for credit)\*\* |
| Otherwise | F |

The official method of contact is Knights email, always include your full name, NID, Math section number (not class meeting time). Grade discussion must be in person if this discussion is via Zoom valid ID must be shown.

**\*\*** note all test may be comprehensive because math builds on prior concepts. Please note that I use standard mathematical rounding.

This course is a NC course. Please see <http://fyae.sdes.ucf.edu/faq> \* for complete details for NC policy.

**Academic Honesty:** All students are required to abide by the Academic Honesty Guidelines. We must develop, sustain and protect an academic environment of honesty, trust, and respect. Please read and understand all policies listed inhttp://creed.ucf.edu/points, <http://www.goldenrule.sdes.ucf.edu> \*. The Z Designation will be used in cases of academic dishonesty as decided by the UCF Office of Student Conduct.

**Grading Scale: Your final grade will be no less that the following:**

|  |  |
| --- | --- |
| Homework | 10% |
| MALL | 10% |
| Class activity | 5% |
| Test 1, 2, and 3 | Best 2 50% |
| Final | 25% |

-*Note: At least your lowest Homework, Quiz, and Test grades will be dropped prior to calculating your final overall grade.*

**Holidays:**

Labor Day September 6

Veteran’s day November 11

Thanksgiving November 25-27

# Test Policy and MALL Procedures

# The use of any algebra solving app, algebra solving calculator or algebra solving software is cheating and the student will be sent to student conduct for cheating and possibility given an F for the course.

# After taking the test and during the remaining time of that test dissemination of the contents of the test by any means is unauthorized assistance and is a violation of the UCF code and the student will be sent to student conduct and given an F for the course.

**Learning Objectives:**

F1 The Distance and Midpoint formulas

Use the distance formula. Use the midpoint formula

F2 Graphs of equations in two variables; intercepts; symmetry

Graph equations by plotting points. Find intercepts from a graph. Find intercepts from an equation. Test an equation for symmetry. Know how to graph key equations.

F3 Lines

Calculate and interpret the slope of a line. Graph lines given a point and the slope. Find the equation of a vertical line. Use the point-slope form of a line. Identify horizontal lines. Write the equation of a line in slope-intercept form. Identify the slope and y-intercept of a line from its equation. Find the equation of a line given two points. Graph lines written in general form using intercepts. Find equations of parallel lines. Find equations of perpendicular lines.

F4 Circles

Write the standard form of the equation of a circle. Graph a circle. Work with the general form of the equation of a circle.

* 1. Functions

Determine whether a relation represents a function. Find the value of a function. Find the difference quotient of a function. Find the domain of a function defined by an equation. Form the sum, difference, product and quotient of two functions.

* 1. The graph of a function.

Identify the graph of a function. Obtain information from or about the graph of a function.

* 1. Properties of Functions

Determine even and odd functions from a graph. Determine even and odd functions from the equation. Use a graph to determine where a function is increasing, decreasing, of constant. Use a graph to locate local maxima and local minima. Use a graph to locate the absolute maximum and the absolute minimum. Use a graphing utility to approximate local maxima and local minima and to determine where a function is increasing or decreasing. Find the rate of change of a function

* 1. Library of functions; piecewise-defined functions

Graph the functions listed in the library of functions. Graph piecewise-defined functions.

* 1. Graphing techniques: Transformations

Graph functions using vertical and horizontal shifts. Graph functions using compressions and stretches. Graph functions using reflections about the x-axis and the y-axis.

* 1. Mathematical models: Building functions

Build and analyze functions.

* 1. Building mathematical models using variation

Construct a model using direct variation. Construct a model using inverse variation. Construct a model using joint of combined variation

2.1 Properties of linear functions and linear models

Graph linear functions. Use average rate of change to identify linear functions. Determine whether a linear function if increasing, decreasing, or constant. Find the zero of a linear function. Build linear models from verbal descriptions.

2.2 Building linear models from data.

Draw and interpret scatter diagrams. Distinguish between linear and nonlinear relations. Use a graphing utility to find the line of best fit.

2.3 Quadratic functions and their zeros

Find the zeros of a quadratic function by factoring. Find the zeros of a function using the square root method. Find the zeros of a quadratic function by completing the square. Find the zeros of a quadratic function by using the quadratic formula. Find the point of intersection of two functions. Solve equations that are quadratic in form.

2.4 Properties of quadratic functions.

Graph a quadratic function using transformations. Identify the vertex and axis of symmetry of a quadratic function. Graph a quadratic function using its vertex, axis, and intercepts. Find a quadratic function given its vertex and one other point. Find the maximum or minimum value of a quadratic function.

2.5 Inequalities involving quadratic functions

Solve inequalities involving a quadratic function.

2.6 Building quadratic models from verbal descriptions and from data

Build quadratic models from verbal descriptions. Build quadratic models from data

2.7 Complex zeros of a quadratic function

Find the complex zeros of a quadratic function.

2.8 Equations and inequalities involving the absolute value function

Solve absolute value equations. Solve absolute value inequalities.

3.1 Polynomial functions and models

Identify polynomial functions and their degree. Graph polynomial functions using transformations. Identify the real zeros of a polynomial functions and their multiplicity. Analyze the graph of a polynomial function. Build cubic models from data.

3.2 The real zeros of a polynomial function

Use the remainder and factor theorems. Use Desecrates’ rule of signs to determine the number of positive and negative real zeros of a polynomial function. Use the rational zeros theorem to list the potential rational zeros of a polynomial function. Find the real zeros of a polynomial function. Solve polynomial equations. Use the theorem for the bounds on zero. Use the intermediate value theorem.

3.3 Complex zeros; Fundamental theorem of algebra

Use the conjugate pairs theorem. Find a polynomial function with specified zeros. Find the complex zeros of a polynomial function.

3.4 Properties of rational functions

Find the domain of a rational function. Find a polynomial function with specified zeros. Find the complex zeroes of a polynomial function.

3.5 The graph of a rational function

Analyze the graph of a rational function. Solve applied problems involving rational functions.

3.6 Polynomial and rational inequalities

Solve polynomial inequalities. Solve rational inequalities.

4.1 Composite functions

Form a composite function. Find the domain of a composite function.

4.2 One-to-one functions; inverse functions

Determine whether a function is one-to-one. Determine the inverse of a function defined by a map or a set of ordered pairs. Obtain the graph of the inverse function from the graph of the function. Find the inverse of a function defined by an equation.

4.3 Exponential functions

Evaluate exponential functions. Graph exponential functions. Define the number e. Solve exponential equations.

4.4 logarithmic functions

Change exponential statements to logarithmic statements and logarithmic statements to exponential statement. Evaluate logarithmic expressions. Determine the domain of a logarithmic function. Graph logarithmic functions. Solve logarithmic equations.

4.5 Properties of logarithms

Work with properties of logarithms. Write a logarithmic expression as a sum or difference of logarithms. Write a logarithmic expression as a single logarithm. Evaluate a logarithm whose base is neither 10 nor e. Graph a logarithmic function whose base is neither 10 nor e.

4.6 Logarithmic and exponential equations

Solve logarithmic equations. Solve exponential equations. Solve logarithmic and exponential equations using graphing utility.

4.7 Financial models

Determine the future value of a lump sum of money. Calculate effective rates of return. Determine the present value of a lump sum of money. Determine the rate of interest or the time require to double a lump sum of money.

4.8 Exponential growth and decay models; Newton’s law; logistic growth and decay models

Find equations of populations that obey the law of uninhibited growth. Find equations of populations that obey the law of decay. Use Newton’s law of cooling. Use logistic models

4.9 Building exponential, logarithmic, and logistic models from data

Build an exponential model from data. Build a logarithmic model from data. Build a logistic model from data.

10.5 Partial fraction decomposition

Decompose P/Q where Q has only nonrepeated linear factors. Decompose P/Q where Q has only repeated linear factors. Decompose P/Q where Q has only nonrepeated quadratic factors. Decompose P/Q where Q has only repeated quadratic factors.

10.6 Systems of nonlinear equations

Solve a system of nonlinear equations using substitution. Solve a system of nonlinear equations using elimination.

10.7 Systems of inequalities

Graph an inequality. Graph a system of inequalities.

**Religious Policy**: It is the practice of the University of Central Florida to reasonably accommodate the religious observances, practices, and beliefs of individuals in regard to admissions, class attendance, and the scheduling of examinations and work assignments. A student who desires to observe a religious holy day of his or her religious faith must notify his/her instructor in writing at the beginning of the term (prior to the 10th business day of the term) to be excused from classes to observe the religious holy day. Please note that documentation is requested. Please see: <https://regulations.ucf.edu/chapter5/documents/5.020ReligiousObservancesFINALJan19.pdf>

**Course Accessibility Statement.** The University of Central Florida is committed to providing access and inclusion for all persons with disabilities. Students with disabilities who need disability-related access in this course should contact the professor as soon as possible. Students should also connect with Student Accessibility Services (SAS) http://sas.sdes.ucf.edu/ (Ferrell Commons 185, sas@ucf.edu, phone: 407-823-2371). Through Student Accessibility Services, a Course Accessibility Letter may be created and sent to professors, which informs faculty of potential access and accommodations that might be reasonable. Determining reasonable access and accommodations requires consideration of the course design, course learning objectives and the individual academic and course barriers experienced by the student.

**Campus Safety Statement.** Emergencies on campus are rare, but if one should arise during class, everyone needs to work together. Students should be aware of their surroundings and familiar with some basic safety and security concepts. In case of an emergency, dial 911 for assistance. Every UCF classroom contains an emergency procedure guide posted on a wall near the door. Students should make a note of the guide’s physical location and review the online version at http://emergency.ucf.edu/emergency guide.html Students should know the evacuation routes from each of their classrooms and have a plan for ﬁnding safety in case of an emergency. If there is a medical emergency during class, students may need to access a ﬁrst-aid kit or AED (Automated External Deﬁbrillator). To learn where those are located, see http://www.ehs.ucf.edu/AEDlocations-UCF (click on link from menu on left). To stay informed about emergency situations, students can sign up to receive UCF text alerts by going to my.ucf.edu and logging in. Click on ”Student Self Service” located on the left side of the screen in the toolbar, scroll down to the blue “Personal Information” heading on the Student Center screen, click on “UCF Alert”, ﬁll out the information, including e-mail address, cell phone number, and cell phone provider, click “Apply” to save the changes, and then click “OK.” Students with special needs related to emergency situations should speak with their instructors outside of class. To learn about how to manage an active-shooter situation on campus or elsewhere, consider viewing this video (https://youtu.be/NIKYajEx4pk).

**Accessibility Related Accommodations:** It is my goal that this class be an accessible and welcoming experience for all students, including those with disabilities that may impact learning in this class. If anyone believes the design of this course poses barriers to effectively participating and/or demonstrating learning in this course, please meet with me (with or without a Student Accessibility Services (SAS) accommodation letter) to discuss reasonable options or adjustments. During our discussion, I may suggest the possibility/necessity of your contacting SAS (Ferrell Commons 185; 407-823-2371; sds@ucf.edu) to talk about academic accommodations. You are welcome to talk to me at any point in the semester about course design concerns, but it is always best if we can talk at least one week prior to the need for any modifications.

**Academic Integrity Statement.** Students should familiarize themselves with UCF’s Rules of Conduct at http://osc.sdes.ucf.edu/process/roc According to Section 1,“Academic Misconduct,” students are prohibited from engaging in Unauthorized assistance: Using or attempting to use unauthorized materials, information or study aids in any academic exercise unless specifically authorized by the instructor of record. The unauthorized possession of examination or course-related material also constitutes cheating. Communication to another through written, visual, electronic, or oral means: The presentation of material which has not been studied or learned, but rather was obtained through someone else’s efforts and used as part of an examination, course assignment, or project. Commercial Use of Academic Material: Selling of course material to another person, student, and/or uploading course material to a third-party vendor without authorization or without the express written permission of the university and the instructor. Course materials include but are not limited to class notes, Instructor’s PowerPoints, course syllabi, tests, quizzes, labs, instruction sheets, homework, study guides, handouts, etc. Falsifying or misrepresenting the student’s own academic work. Plagiarism: Using or appropriating another’s work without any indication of the source, thereby attempting to convey the impression that such work is the student’s own. Multiple Submissions: Submitting the same academic work for credit more than once without the express written permission of the instructor. Helping another violate academic behavior standards. For more information about Academic Integrity, students may consult The Center for Academic Integrity http://www.academicintegrity.org/icai/assets/FVProject.pdf For more information about plagiarism and misuse of sources, see “Defining and Avoiding Plagiarism: The WPA Statement on Best Practices” <http://wpacouncil.org/node/9>

**Responses to Academic Dishonesty, Plagiarism, or Cheating.** Students should also familiarize themselves with the procedures for academic misconduct in UCF’s student handbook, The Golden Rule http://goldenrule.sdes.ucf.edu/docs/goldenrule.pdf. UCF faculty members have a responsibility for students’ education and the value of a UCF degree, and so seek to prevent unethical behavior and when necessary respond to academic misconduct. Penalties can include a failing grade in an assignment or in the course, suspension or expulsion from the university, and/or a “Z Designation” on a student’s official transcript indicating academic dishonesty, where the final grade for this course will be preceded by the letter Z. For more information about the Z Designation, see http://goldenrule.sdes.ucf.edu/zgrade

**Deployed Active Duty Military Students**. A deployed active duty military student who feels the need for a special accommodation due to that unique status should contact their instructor to discuss the circumstances. Please provide a paper copy of your military orders.

**UCF Covid Statement**.

**University-Wide Face Covering Policy for Common Spaces and Face-to-Face Classes**

Currently there is no rule on required face coverings. Note that this is subject to change with University policy.

**Notifications in Case of Changes to Course Modality**

Depending on the course of the pandemic during the semester, the university may make changes to the way classes are offered. If that happens, please look for announcements or messages in Webcourses@UCF or Knights email about changes specific to this course.

**COVID-19 and Illness Notification**

Students who believe they may have a COVID-19 diagnosis should contact UCF Student Health Services (407-823-2509) so proper contact tracing procedures can take place.

Students should not come to campus if they are ill, are experiencing any symptoms of COVID-19, have tested positive for COVID, or if anyone living in their residence has tested positive or is sick with COVID-19 symptoms. CDC guidance for COVID-19 symptoms is located here: (<https://www.cdc.gov/coronavirus/2019-ncov/symptoms-testing/symptoms.html>)

Students should contact their instructor(s) as soon as possible if they miss class for any illness reason to discuss reasonable adjustments that might need to be made. When possible, students should contact their instructor(s) before missing class.

**In Case of Faculty Illness**

If the instructor falls ill during the semester, there may be changes to this course, including having a backup instructor take over the course. Please look for announcements or mail in Webcourses@UCF or Knights email for any alterations to this course.

**Course Accessibility and Disability COVID-19 Supplemental Statement**

Accommodations may need to be added or adjusted should this course shift from an on-campus to a remote format. Students with disabilities should speak with their instructor and should contact [sas@ucf.edu](mailto:sas@ucf.edu) to discuss specific accommodations for this or other courses.

**Web Course and class Announcements**

Web course and class announcements will be used to convey messages to the class, i.e., access to zoom lectures, access to zoom recordings, change in course policy. Students are responsible for announcements from class or web course whether they have read/hear the announcement or not.

**Zoom.**

Because of the continued remote instruction requirement due to the COVID-19 pandemic, this course will use Zoom for some synchronous (“real time”) office hours meetings. Meeting dates and times will be announced through Announcements on webcourses.

Please take the time to familiarize yourself with Zoom by visiting the [UCF Zoom Guides](https://cdl.ucf.edu/support/webcourses/zoom/) at <https://cdl.ucf.edu/support/webcourses/zoom/>. You may choose to use Zoom on your mobile device (phone or tablet).

Things to Know About Zoom:

* You must sign into my Zoom session using your UCF NID and password.
* The Zoom office hour sessions are not recorded.
* Improper classroom behavior is not tolerated within Zoom sessions and may result in a referral to the Office of Student Conduct.
* You can contact [Webcourses@UCF Support](https://cdl.ucf.edu/support/) at <https://cdl.ucf.edu/support/webcourses/> if you have any technical issues accessing Zoom.

**Disclaimer:** *Instructor has the right to make some adjustments to syllabus and any adjustment will be announced in class and via email and/or Webcourses announcements.*