

MAP2302: Differential Equations

Welcome to the course

In this course you will use your Algebra and Trigonometry and Calculus 1 and Calculus 2 skills to learn about the greatest subject in the world. We will use Canvas and Zoom and Youtube and the Webassign online program by Cengage to complete our homework.

We will not use the textbook. Do not purchase the textbook (unless you need a hard copy of the textbook). You **must** purchase the Webassign Access code to enable you to complete your online assignments. You may purchase Webassign online or from the bookstore.

To enroll in the Webassign course, go to [Modules](#) and under the Welcome module in Canvas. Select Register for Webassign and follow the prompts.

Syllabus Summer 2023

I. Course Information

Course Title: Differential Equations

Course Number: MAP2302 Section 01

Instructor Name: Scott Smith

Credit Hours: 3

Course Location: 7-112

Office Location: Building 2 Room 207

Telephone No.: 237 2111 extension 1390

Email: smiths@cf.edu

The best way to reach me is by email. If you leave a voicemail, please leave your name and an email address I can respond to. Please allow 24 hours for a response Monday morning through Friday afternoon and up to 48 hours for a response Friday evening through Monday morning. Scheduled holidays may extend the response time.

Office Hours

Monday: 10:00 am-10:30 am

Tuesday: 10:00 am-10:30 am

Wednesday: 10:00am-10:30 am

Thursday: 10:00 am-10:30 am

For Office Hours please use the Zoom meeting below.

Scott Smith is inviting you to a scheduled Zoom meeting.

Topic: Scott Smith's Personal Meeting Room

Join Zoom Meeting

<https://cfpatriots.zoom.us/j/9054079025>

Meeting ID: 905 407 9025

One tap mobile

+13126266799,,9054079025# US (Chicago)

+16468769923,,9054079025# US (New York)

Dial by your location

+1 312 626 6799 US (Chicago)

+1 646 876 9923 US (New York)

+1 301 715 8592 US (Germantown)

+1 669 900 6833 US (San Jose)

+1 253 215 8782 US (Tacoma)

+1 346 248 7799 US (Houston)

+1 408 638 0968 US (San Jose)

Meeting ID: 905 407 9025

Find your local number: <https://cfpatriots.zoom.us/u/aeB4GzSCnV>

Extended Emergency Closure

“For emergency campus closings (natural disasters, etc.) call 352-291-4499 or 800-831-9244 or check our [website\(Links to an external site.\)](#) (CF.edu).”

Prerequisite for the course: Grade of C or better in MAC2312 or a suitable placement score.

Text Title: A First Course in Differential Equations with Modeling Applications

Author of Text: Zill

Edition: 11th

Required Materials: Webassign access code, which includes ebook access, Scientific calculator

WebAssign access is required to complete this class. WebAssign is an online homework/assessment platform that includes your weekly course assignments, section-level videos, Personal Study Plan and the eBook. It will be used for homework and Tests and counts for a significant portion of your course grade. It is important to

purchase your access code immediately since you will have assignments due during the first week of classes.

1. Cengage Unlimited 1-term (4-month) subscription: **ISBN# 9780357700006**

With a Cengage Unlimited subscription, students can rent a printed copy of the textbook for the semester for \$7.99 and free shipping for those who want a printed copy of the book. They can also add any other courses they are taking that use a Cengage product to their Cengage Unlimited dashboard for no extra cost (this includes eBook and digital program like MindTap that may be in use in other courses).

The materials required for this class—and any other classes using Cengage products—are included in ONE Cengage Unlimited subscription.

- Cengage Unlimited ISBN: **9780357700006**

Note: You only need to purchase one Cengage Unlimited subscription to add any Cengage eTextbook or online homework for other classes to your dashboard at no additional cost.

Download the free [Cengage Mobile App \(Links to an external site.\)](#) to get your Cengage eTextbooks and study tools on your phone. Ask for Cengage Unlimited in the bookstore or visit cengage.com/unlimited (Links to an external site.) to try it for free.

Beware of sites that are selling discounted Cengage Unlimited subscriptions. These sources are likely unauthorized sellers who have acquired access codes illegally, and transactions with such sources may pose a risk to your personal information.

Access your WebAssign course and your Cengage Unlimited trial by following these 3 steps:

- 1. Log in to Canvas.**
- 2. Click the link for your course.**
- 3. Click any link to Cengage content to continue the registration process.**

Cell phones

- You will not be using a cell phone in this class.

Calculators

- You may not use a cell phone as a calculator.
- Calculators that can transmit data wirelessly are NOT allowed.
- Calculators with CAS (computer algebra system) capability are NOT allowed
- Only a scientific calculator is required.
- Graphing calculators are a helpful tool but not required.

II. Course Description

Differential Equations (MAP2302) is the first course in ordinary differential equations and applications. This course covers homogeneous and nonhomogeneous equations, linear equations with constant coefficients, power series method, Laplace transform, systems of first order differential equations and numerical solutions.

I expect you to complete your assignments by the due date and ask questions when you need help. It is your responsibility to keep track of when assignments are due. It is your responsibility to do the work assigned. At the end of the semester you will receive the grade that you have earned for this course. I will assign the grade that represents the knowledge you have learned and earned by working hard on the content of this course.

My Learning Philosophy:

Everybody learns. Your effort and your struggles determine how well and how much you learn. I expect students to have a desire to learn the mathematics in this course. Students attend class, ask questions, work hard and take responsibility for learning. I am here to help all students learn.

HINTS FOR SUCCESS:

Take responsibility for learning this subject, attend class, listen, ask questions, answer questions, participate, take notes, do all the homework you can possibly do, do at least some homework daily, dedicate yourself, when things go bad or when things go good rededicate yourself to learning this subject, use my office hours, find someone to study with, enjoy yourself, congratulate yourself on your progress. Good Luck.

III. Student Learning Outcomes/Course Objectives.

Learning Outcomes & How Measured

Quantitative and Analytical Reasoning: The student will understand and apply mathematical and scientific principles and methods.

1. Perform accurate computations using order of operations with and without technology.

How Measured: Quiz, Exams

2. Identify and organize relevant information and complete the solution of an applied problem.

How Measured: Quiz, Exams

3. Interpret and communicate understanding of visual representations of data.

How Measured: Quiz, Exams

4. Demonstrate mathematical number sense and unit sense.

How Measured: Quiz, Exams

IV. Assessment

Grading scale: Final grades will be based on the overall percentage of the course.

Grade	Percent
A	90% - 100%
B+	87% - 89.9%
B	80% - 86.9%
C+	77% - 79.9%
C	70% - 76.9%
D	60% - 69.9%
F	0% - 59.9%

Assignments Weights

Exams: 85%

Quizzes: 0%

Homework: 15%

Discussions: 0%

Attendance: 0%

Grading Information:

Exams

- -
 - Approximately 85% of overall grade
 - All exams must be proctored.

- No Make-up exams.
- No Retaking exams.

Homework

- Approximately 15% of overall grade
- Homework is assigned online through Webassign for every section of class.
- Homework will be due weekly, mostly Thursdays 7:59 am.
- The student is expected to complete each assignment and if the student encounters difficulties with a problem(s), then the student should ask appropriate questions via email or see the instructor during office hours, or get assistance at the Math Center.
- The student is expected to complete the homework by the due date. I encourage you to finish the homework early so that you have more time to study for the exams.

Discussions

- - - 0% of overall grade
 - I will post discussions to have you help your fellow students. I would like you to address the topic I present and reply to at least one other post.

Attendance

- - - 0% of overall grade
 - Attendance is established by doing assignments in Webassign.
 - For Financial aid you must be registered in the course in Webassign and have completed one assignment.
 - Non-Attendance does not constitute as a withdrawal from the course. It is the student's responsibility to complete the withdrawal forms by the appropriate date.
 - If the student is having trouble, it is the students responsibility to get help from the instructor, another student, or tutor. You may contact the instructor through email, or stop by during office hours.

Late work

- - - Late work will not be accepted.
 - All Webassign assignments must be turned in by the due date.

- Failure to turn in an assignment on time will result in a score of zero.

Extra Credit

- - - **No Extra Credit**

Make-up policy:

- - - **No make-up work will be given** unless there is an emergency or prior approval has been given by the instructor. In such an event, you must notify your professor before the exam or item is due unless the emergency prohibits it and you will be asked to bring proof of the emergency. A make-up exam must be taken within one week of the original exam date unless the emergency prohibits it. While you do not need to disclose personal details, let your professor know as soon as possible if something is preventing you from participating online or completing work.

Course Schedule/Outline

Preparation, Activities and Evaluation	Date Due
Chapter 1 and 2 Homework	Tuesday 5/23/23
Chapter 1 and 2 Tests, exam 1	Tuesday 5/23/23
Chapter 3 Homework	Thursday 6/1/23
Chapter 3 Tests, exam 2	Thursday 6/1/23
Ch 4 Homework	Monday 6/12/23
Chapter 4 Tests, exam 3	Monday 6/12/23
Chapter 5 Homework	Monday 6/19/23
Chapter 5 Tests, exam 4	Monday 6/19/23

Chapter 7 Homework Monday 6/26/23

Chapter 7 Tests, exam 5 Monday 6/26/23

STATEMENT: The instructor reserves the right to make any changes as needed. Due to unforeseen happenings, it may be necessary for the course assignment schedule to be altered. The instructor will always strive to be fair about any changes.

Student Responsibilities & Course Requirements

Academic Integrity- It is the responsibility of the student to maintain their integrity throughout the course. Do your own work. Learn the mathematics. If a student is found to be in violation of our academic integrity they will be assigned a grade of FF in the course and a referral to the Academic Integrity Seminar. Upon successful completion of the Academic Integrity Seminar the student will be assigned a grade of F for the course. For more information about academic integrity please see the College Policies page here in Canvas and also your student code of Conduct.

1. Students are expected to complete each assignment.
2. Students will complete quizzes for each chapter.
3. Students will complete 6 tests which will be online but must be **proctored**.
4. Using Webassign, you should view each power point, videos, interactive videos, the textbook and other available materials under the course contents and resources. These materials serve as the teaching portion of the course. You may also view instruction videos from other sources such as Kahn Academy. After viewing the material you should do the homework for the chapter and then the quiz.
5. Some Quiz problems will be Smith problems downloaded and uploaded through Canvas. I want to see your neatly handwritten solutions to these Quiz Problems.
6. There will be five tests and a final exam.
7. This course requires proctored assessments.
8. For assistance with scheduling a proctored exam at a CF testing center or to help you locate another testing center, please contact the **CF Testing Center at 352-291-4419**.
9. If you show up to the testing center without proper ID or late, you will not be allowed to take the test. Cell Phone, pagers, or similar items are prohibited in the Testing Center. The testing center makes no exceptions under any circumstances.
10. **There will be no retakes or make-up tests.**

Testing

1. Students must bring photo identification and provide instructor's name, course number/section and which Test they are taking.
2. Cell phones, pagers, or similar items are prohibited in the Testing Center.
3. Students will not be permitted to use any materials, devices, or equipment that have not been previously authorized by the instructor in their submitted instructions and guidelines.
4. Students must make an appointment at the Testing Center. **Telephone:**352-291-4419.

Testing Assistance:

Testing Center hours are located at [CF.edu/Testing \(Links to an external site.\)](#). Your instructor is required to make advanced preparations before you schedule your exam, so contact your instructor at least two weeks in advance regarding testing assistance.

- Register for all testing that you plan to schedule in one of the CF testing centers by creating a CF username and password for the testing center. This can be done at home or at the testing center; the link is [cf.edu/mytests](#) (links to an external site.) This is required to take any test at a CF testing center and needs to be created only once. The username and password created will be used for all tests taken at any of the CF campus testing centers.
- The Ocala Testing Center is located on the second floor of the Student Bryant Union Building 5, Room 205. Appointments are required. For information on making an appointment visit [the testing center website\(Links to an external site.\)](#)
- The Citrus Campus Testing Center is located in C4-109. Call 352-249-1213 for an appointment.
- Stop at the front desk for directions to the Levy Testing Center. You can call 352-493-9533, ext. 2100 or 2111, for an appointment.

Online Tutoring Assistance

You can use the [Smarthinking Online Tutoring](#) tab on the left menu bar to access tutors.

The College of Central Florida tutors are at the top and the subject will have a CF in front of it. Please make sure you utilize our CF tutors.

Log on for SMARTHINKING

Initial username logon is **Your CF ID number and CF (e.g., 99999CF)**

Initial password is **lastname (lowercase)**

Then you will create your own account. The limit for Smarthinking is 5 hours per student. If you desire more time contact Josh Strigle at x-1317 or dlhelp@cf.edu.

Math Websites

[Khanacademy](#) (Links to an external site)

[Quickmath](#) (Links to an external site)

[Purplemath](#) (Links to an external site)