



**Division of Mathematics
Mathematics Department**

<https://learning.hccs.edu/programs/mathematics>

Math 2414: Calculus II | Lecture | #14251 (Modified syllabus)

Spring 2020 | 16 Weeks (1.21.2020-5.17.2020)
Stafford Scarcella W106 | **Online from 3/30/2020**
4 Credit Hours | 64 hours per semester

Instructor Contact Information

Instructor: Eunice Kallarackal	Office Phone: 713-718-5578	
Office: Online	Office Hours: MW8:30 -9:30am, TR11am-12pm.	
HCC Email: eunice.kallarackal@hccs.edu	Office Location: Online	

Please feel free to contact me concerning any problems that you are experiencing in this course. Your performance in my class is very important to me. I am available to hear the concerns and just to discuss course topics.

Instructor's Preferred Method of Contact

You may contact me via my HCC email. Please use your school email to do so. I will respond to emails within 24 hours Monday through Friday; I will reply to weekend messages on Monday mornings.

What's Exciting about This Course

Calculus is dynamic in nature. You have already experienced that in Calculus 1. Calculus 2 is even more exciting. It is very rigorous. There will never be a dull moment in this class.

My Personal Welcome

It is my pleasure to welcome you to Calculus 2 class. This is my favorite class to teach and I look forward to meeting you and taking you to a higher realm of mathematics. My goal is to make you more interested in the subject and want you to know that I am here to support you.

Prerequisite

Prerequisite: Math 2413: Pass with a "C" or better. If you have enrolled in this course having satisfied these prerequisites, you have a higher chance of success than students who have not done so. Please carefully read and consider the repeater policy in the [HCCS Student Handbook](#).

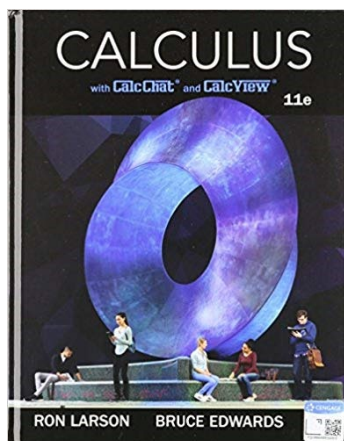
Canvas Learning Management System

This section of MATH 2414 will use [Canvas](https://eagleonline.hccs.edu) (<https://eagleonline.hccs.edu>) to supplement in-class assignments, exams, and activities. I have posted power points of lessons there. All your grades will be posted there.

HCCS Open Lab locations may be used to access the Internet and Canvas. **USE [FIREFOX](#) OR [CHROME](#) AS THE INTERNET BROWSER.**

Instructional Materials

Textbook Information



The textbook listed below is **required** for this course.

Textbook: Calculus, 11th Edition, by Ron Larson & Bruce H. Edwards, ISBN-13: 978-1337275347

Textbook Options for: Calculus, 11th Edition, by Ron Larson & Bruce H. Edwards

Loose-leaf Textbook + WebAssign Multi-Term Printed Access Card: Edwards ISBN-13: 978-1337604741

Hardbound Textbook + WebAssign Multi-Term Printed Access Card: Edwards ISBN-13: 978-1337604758

Hardbound Textbook: ISBN-13: 978-1337275347

WebAssign Multi-Term Printed Access Card: ISBN-13: 978-1285858265

Temporary Free Access to E-Book

For temporary free access to WebAssign and the online eBook, go to <http://webassign.net> and register using the Course Key: hccs 1570 9678

Other Instructional Resources

Tutoring

HCC provides free, confidential, and convenient academic support, including writing critiques, to HCC students in an online environment and on campus. Tutoring is provided by HCC personnel in order to ensure that it is contextual and appropriate. Visit the [HCC Tutoring Services](#) website for services provided.

Libraries

The HCC Library System consists of 9 libraries and 6 Electronic Resource Centers (ERCs) that are inviting places to study and collaborate on projects. Librarians are available both at the libraries and online to show you how to locate and use the resources you need. The libraries maintain a large selection of electronic resources as well as collections of books, magazines,

newspapers, and audiovisual materials. The portal to all libraries' resources and services is the HCCS library web page at <http://library.hccs.edu>.

Course Overview

This course provides a detailed study of the logarithmic, exponential, and other transcendental functions, integration techniques with applications, L'Hopital's rule, an introduction to infinite series and power series, as well as Taylor polynomials and approximations, plane curves, parametric equations, and polar coordinates.

Core Curriculum Objectives (CCOs)

Given the rapid evolution of necessary knowledge and skills and the need to take into account global, national, state, and local cultures, the core curriculum must ensure that students will develop the essential knowledge and skills they need to be successful in college, in a career, in their communities, and in life. Through the Texas Core Curriculum, students will gain a foundation of knowledge of human cultures and the physical and natural world, develop principles of personal and social responsibility for living in a diverse world, and advance intellectual and practical skills that are essential for all learning.

- **Critical Thinking:** to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information.
- **Communication Skills:** to include effective development, interpretation and expression of ideas through written, oral and visual communication.
- **Quantitative and Empirical Literacy:** to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions.

Program Student Learning Outcomes (PSLOs)

Students in the Mathematics Program will:

1. Engage in problem solving strategies, such as organizing information, drawing diagrams and modeling.
2. Use symbolic representations to solve problems. This includes manipulating formulas, solving equations, and graphing lines.
3. Build the foundational mathematical skills that will enable a student to successfully complete a college level mathematics course.

Course Student Learning Outcomes (CSLOs)

Upon completion of MATH 2414, the student will be able to:

1. Explain and model the arithmetic operations for whole numbers and integers.
2. Use the concepts of definite integrals to solve problems involving area, volume, work, and other physical applications.
3. Use substitution, integration by parts, trigonometric substitution, partial fractions, and tables of anti-derivatives to evaluate definite and indefinite integrals.
4. Define an improper integral.
5. Apply the concepts of limits, convergence, and divergence to evaluate some classes of improper integrals.
6. Demonstrate the correct use of L'Hopital's rule and various techniques for solving improper integrals
7. Determine convergence or divergence of sequences and series.
8. Use Taylor and McLaurin series to represent functions.

9. Use Taylor or McLaurin series to integrate functions not integrable by conventional methods.
10. Use the concept of polar coordinates to find areas, lengths of curves, and representations of conic sections.

Learning Objectives

Upon completion of MATH 2414, the student will be able to:

1. Define and use transcendental functions including logarithmic and exponential functions.
2. Compute derivatives and antiderivatives involving transcendental functions.
3. Apply integration to various applications.
4. Show various integration techniques.
5. Show correct usage of L'Hôpital's rule.
6. Describe and solve improper integrals.
7. Recognize and use infinite series.
8. Recognize and apply Taylor series to various problems.
9. Demonstrate knowledge of plane curves and polar coordinates.

Student Success

Expect to spend at least twice as many hours per week outside of class as you do in class studying the course content. Additional time will be required for written assignments. The assignments provided will help you use your study hours wisely. Successful completion of this course requires a combination of the following:

- Reading the textbook
- Attending class in person and/or online
- Completing assignments
- Participating in class activities

There is no short cut for success in this course; it requires reading (and probably re-reading) and studying the material using the course objectives as a guide.

Instructor and Student Responsibilities

As your Instructor, it is my responsibility to:

- Provide the grading scale and detailed grading formula explaining how student grades are to be derived
- Facilitate an effective learning environment through learner-centered instructional techniques
- Provide a description of any special projects or assignments
- Inform students of policies such as attendance, withdrawal, tardiness, and making up assignments
- Provide the course outline and class calendar that will include a description of any special projects or assignments
- Arrange to meet with individual students before and after class as required

As a student, it is your responsibility to:

- Attend class in person and/or online
- Participate actively by reviewing course material, interacting with classmates, and responding promptly in your communication with me

- Read and comprehend the textbook
- Complete the required assignments and exams
- Ask for help when there is a question or problem
- Keep copies of all paperwork, including this syllabus, handouts, and all assignments
- Be aware of and comply with academic honesty policies in the HCCS Student Handbook

Assignments, Exams, and Activities

Exams

There will be three exams each worth 100 points and a comprehensive final exam.

Quizzes

In addition to exams there will be 6 quizzes. Quiz dates will be announced in class. Quizzes prepare you for exams. Each quiz is worth 20 points. The lowest quiz grade out of six will be dropped.

Homework

Homework is assigned online in Web Assign. Go to webassign.net to register to do the homework. You need an access code which you can buy online or buy from the book store. You need to enter a course key for this class which is hccs 1570 9678 Homework has to be done regularly. Homework for the sections covered in an exam is due on the day of the exam. Do not wait for the last hour to finish the homework. Once closed, the sections will not be re-opened. Every semester students realize towards the end of the semester that they would have made a better grade had they done the homework on time. Then it will be too late.

Final Exam

All students will be required to take a cumulative Final. If you do not take the final you fail the class.

Grading Formula

Exam 1	15% of your grade
Exam 2	15% of your grade
Exam 3	15% of your grade
Homework	15% of your grade
Quizzes	15% of your grade
Final Exam	25% of your grade

Grade	Overall Percentage
A	90% +
B	80%-89%
C	70%- 79%
D	60%-69%

F	<60%
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Incomplete Policy:

In order to receive a grade of Incomplete ("I"), a student must have completed at least 85% of the work in the course. In all cases, the instructor reserves the right to decline a student's request to receive a grade of Incomplete.

HCC Grading Scale can be found on this site under Academic Information:
<http://www.hccs.edu/resources-for/current-students/student-handbook/>

Course Calendar (tentative)

Week	Topic/What's due
1	Syllabus Sec5.1-5.4
2	5.5-5.7
3	5.8,5.9,7.1
4	8.1,Review Exam1
5	Exam 1, sec8.2
6	Sec8.3,8.4,8.5
7	Sec8.6,8.8
8	Sec7.2,7.3
9	Week of March30 Sec7.4, Review exam2
10	April 6 Exam2\, sec9.1, 9.2
11	Sec9.3-9.6
12	Sec9.7,9.8,9.9,9.10
13	Review exam3 Exam3 ,10.2
14	10.3,10.4,10.5,Review
15	Final Exam(5/13/20 online)

Transitioning to online modality

As we move to online instruction, this is the way I plan to continue with the class.

You can find posted in Canvas, power points of lessons and link to videos of lessons in webassign.

I will be hosting webex meetings during our regular class times. Meeting will start at 12 and will go on for about an hour. I will also open up discussions for each section.

Webex meetings are not mandatory. But participate in the discussion.

Exams have to taken online using lock down browser . When you attempt to take an exam , you will get a message link to download the browser.

Student resources for Wifi and computers.

<https://library.hccs.edu/howdoi/lowcostinternet>Links to an external site.

A link to the [Canvas Orientation found here](#) [Links to an external site.](#) on the [Student Resources](#) [COVID 19Links to an external site.](#) site.

- Student Services is currently assessing students' equipment and internet access needs and is working on a plan to provide those resources.
- o Please respond to the survey you receive by email. If you didn't get it by email, here is a link: https://hccs.co1.qualtrics.com/jfe/form/SV_3KStERZ5XaCTzrD

Updated Calendar for the semester Starting march 30

Week of March30- sec7.4, Review for Exam2, Practice exam

Week of April6- Exam2, sec 9.1 sec 9.2

Week of April13- Sec9.3,9.4,9.5,9.6

Week of April20, sec9.7,9.8,9.9,9.10

Week of April27- Exam3, sec10.2,10.3

Week of May4 -sec 10.4,10.5, 10.6

Week of May11- Final Exam

Syllabus Modifications

The instructor reserves the right to modify the syllabus at any time during the semester and will promptly notify students in writing, typically by e-mail, of any such changes.

Instructor's Practices and Procedures

Missed Assignments

There is no make-up for any exams or quizzes in this course. However I will allow you to replace the lowest of your 3 exam grades with the final exam grade, if the final exam grade is higher. Note that cumulative quiz grade will not be replaced. I will drop one quiz grade.

Academic Integrity

All forms of academic dishonesty including, but not limited to cheating, plagiarism, and collusion are serious offenses. If you cheat or help someone cheat on an assignment, your grade for that assignment will be 0 and that grade cannot be replaced. I will report it to authorities and will recommend probation.

Here's the link to the HCC information about academic integrity (Scholastic Dishonesty and Violation of Academic Scholastic Dishonesty and Grievance):

<http://www.hccs.edu/about-hcc/procedures/student-rights-policies--procedures/student-procedures/>

Attendance Procedures

Attending class regularly is the best way to succeed in this class. Research has shown that the single most important factor in student success is attendance. You are responsible for materials covered during your absences. Class attendance is checked daily. Although it is your responsibility to drop a course for nonattendance, the instructor has the authority to drop you for excessive absences. **You are considered absent if you miss more than 15 minutes of instruction, which includes arriving late to class, leaving early from class and/or taking long breaks during class hours. Students may be dropped from a course after accumulating absences in excess of six (6) hours of instruction.** The six hours of class time would include any total classes missed or for excessive tardiness or leaving class early.

Poor attendance records tend to correlate with poor grades. If you miss any class, including the first week, you are responsible for all material missed. It is a good idea to find a friend or a buddy in class who would be willing to share class notes or discussion or be able to hand in your work if you unavoidably miss a class.

The last day to withdraw is May10, 2020

Student Conduct

It is our shared responsibility to develop and maintain a positive learning environment for everyone. As your instructor, I take this responsibility very seriously and require you to respect the learning needs of your classmates and assist me. If your behavior disrupts the class you will be asked to leave the class and it will be reported.

Calculators

You may use a non-graphing non programmable calculator for this class. Graphing calculators are not allowed. For some exams and quizzes no calculator will be allowed.

Electronic Devices

The use of electronic devices by students in the classroom is not allowed in my class. Any use of such devices for the purposes other than student learning is strictly prohibited unless authorized as an appropriate ADA accommodation from the ADA Counselor. Cell phones must be silenced and put away.

Mathematics Program Information

- HCC Math Student Organizations: Mu Alpha Theta: Application: <https://www.hccs.edu/resources-for/current-students/stem--science-technology-engineering--mathematics/stem-clubs/mu-alpha-theta-application/>

HCC Policies

Here's the link to the HCC Student Handbook <http://www.hccs.edu/resources-for/current-students/student-handbook/> In it you will find information about the following:

- Academic Information
- Academic Support

- Attendance, Repeating Courses, and Withdrawal
- Career Planning and Job Search
- Childcare
- disAbility Support Services
- Electronic Devices
- Equal Educational Opportunity
- Financial Aid TV (FATV)
- General Student Complaints
- Grade of FX
- Incomplete Grades
- International Student Services
- Health Awareness
- Libraries/Bookstore
- Police Services & Campus Safety
- Student Life at HCC
- Student Rights and Responsibilities
- Student Services
- Testing
- Transfer Planning
- Veteran Services

EGLS³

The EGLS³ ([Evaluation for Greater Learning Student Survey System](#)) will be available for most courses near the end of the term until finals start. This brief survey will give invaluable information to your faculty about their teaching. Results are anonymous and will be available to faculty and division chairs after the end of the term. EGLS³ surveys are only available for the Fall and Spring semesters. -EGLS3 surveys are not offered during the Summer semester due to logistical constraints.

<http://www.hccs.edu/resources-for/current-students/egls3-evaluate-your-professors/>

Campus Carry Link

Here's the link to the HCC information about Campus Carry:

<http://www.hccs.edu/departments/police/campus-carry/>

HCC Email Policy

When communicating via email, HCC requires students to communicate only through the HCC email system to protect your privacy. If you have not activated your HCC student email account, you can go [to HCC Eagle ID](#) and activate it now. You may also use Canvas Inbox to communicate.

Housing and Food Assistance for Students

Any student who faces challenges securing their foods or housing and believes this may affect their performance in the course is urged to contact the Dean of Students at their college for support. Furthermore, please notify the professor if you are comfortable in doing so.

This will enable HCC to provide any resources that HCC may possess.

Office of Institutional Equity

Use the link below to access the HCC Office of Institutional Equity, Inclusion, and Engagement (<http://www.hccs.edu/departments/institutional-equity/>)

disAbility Services

HCC strives to make all learning experiences as accessible as possible. If you anticipate or experience academic barriers based on your disability (including long and short term conditions, mental health, chronic or temporary medical conditions), please meet with a campus Abilities Counselor as soon as possible in order to establish reasonable accommodations. Reasonable accommodations are established through an interactive process between you, your instructor(s) and Ability Services. It is the policy and practice of HCC to create inclusive and accessible learning environments consistent with federal and state law. For more information, please go to <http://www.hccs.edu/support-services/disability-services/>

Title IX

Houston Community College is committed to cultivating an environment free from inappropriate conduct of a sexual or gender-based nature including sex discrimination, sexual assault, sexual harassment, and sexual violence. Sex discrimination includes all forms of sexual and gender-based misconduct and violates an individual's fundamental rights and personal dignity. Title IX prohibits discrimination on the basis of sex-including pregnancy and parental status in educational programs and activities. If you require an accommodation due to pregnancy please contact an Abilities Services Counselor. The Director of EEO/Compliance is designated as the Title IX Coordinator and Section 504 Coordinator. All inquiries concerning HCC policies, compliance with applicable laws, statutes, and regulations (such as Title VI, Title IX, and Section 504), and complaints may be directed to:

David Cross
 Director EEO/Compliance
 Office of Institutional Equity & Diversity
 3100 Main
 (713) 718-8271
 Houston, TX 77266-7517 or Institutional.Equity@hccs.edu
<http://www.hccs.edu/departments/institutional-equity/title-ix-know-your-rights/>

Office of the Dean of Students

Contact the office of the Dean of Students to seek assistance in determining the correct complaint procedure to follow or to identify the appropriate academic dean or supervisor for informal resolution of complaints.

<https://www.hccs.edu/about-hcc/procedures/student-rights-policies--procedures/student-complaints/speak-with-the-dean-of-students/>

Department Chair Contact Information

College - Level Math Courses

Chair of Math	Susan Fife	SW Campus	713-718-7241	Stafford, Scarcella, N108
- Admin. Assistant	Tiffany Pham	SW Campus	713-718-7770	Stafford, Scarcella, N108
- Admin. Assistant	Christopher Cochran	SW Campus	713-718-2477	Stafford, Scarcella, N108
Math Assoc. Chair	Jaime Hernandez	CE Campus	713-718-7772	San Jacinto Building, Rm 369
Math Assoc. Chair	Ernest Lowery	NW Campus	713-718-5512	Katy Campus Building, Rm 112
Math Assoc. Chair	Mahmoud Basharat	NE Campus	713-718-2438	Codwell Hall Rm 105

Developmental Math Courses

Chair of Dev. Math	Jack Hatton	SE Campus	713-718-2434	Felix Morales Building, Rm 124
- Admin. Assistant	Carmen Vasquez	SE Campus	713-718-7056	Felix Morales Building, Rm 124
Dev. Math Assoc. Chair	Hien Nguyen	SE Campus	713-718-2440	Felix Morales Building, Rm 124
Dev. Math Assoc. Chair	Adnan Ulhaque	SW Campus	713-718-5463	Stafford, Learning Hub, Room 208
Technical Support Specialist	Douglas Bump	SE Campus	713-718-7317	Angela Morales Building, Rm 101

For issues related to your class, please first contact your instructor.

If you need to contact departmental administration, then contact the appropriate Associate Chair.

If further administrative contact is necessary, then contact the appropriate Department Chair.