COURSE SYLLABUS

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YEAR COURSE OFFERED: 2019-2020

SEMESTER COURSE OFFERED: Spring

DEPARTMENT: MATH

COURSE NUMBER: 1432 – Sections: 20673 and 20701

NAME OF COURSE: Calculus II

NAME OF INSTRUCTOR: Dr. Melahat Almus (http://www.math.uh.edu/~almus)

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The information contained in this class syllabus is subject to change without notice. Students are expected to be aware of any additional course policies presented by the instructor during the course.

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Learning Objectives

Upon successful completion of this course, students will understand and be able to apply the ideas of differential and integral calculus to any functions, polar coordinates and parametric curves. They will develop skills in techniques and further applications of integration. They will understand convergence of sequences and series and be able to test for convergence. They will understand and appreciate the importance of power series and Taylor polynomials. Students will be able to use graphical information and symbolic expression simultaneously in solving mathematical problems. They will be able to translate ordinary language descriptions of problems into mathematical expression, derive solutions by rigorous mathematical methods, interpret their results, and explain them.

Instructor Information

- Instructor: Dr. Melahat Almus
- Office: 212PGH
- Office Hours: MW 12-2pm.
- Email: almus@math.uh.edu

Required Reading

- The textbook, online quizzes, and additional help materials will be made available by logging into CourseWare at http://www.casa.uh.edu. The first portion of these materials are freely available for the first two weeks of class. All students must purchase a Course Access Code and enter it on CourseWare by the end of the second week of class to continue accessing the course learning materials. A Course Access Code can be purchased from the University Bookstore. If you don’t enter the code by the deadline, you will temporarily lose your access to CASA. There are no make ups for the assignments missed during this no-access period. Note that even if you order the access code online, you will be receiving it in the mail; plan ahead and purchase the code on time.
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**Major Assignments/Exams**

**ASSESSMENTS**

- Test 1 - 5%
- Tests 2, 3, 4 - 15% each
- Final exam - 25%
- Lab Quizzes – 6%
- Homework (written and EMCF) – 6%
- Online Quizzes - 10%
- In-class Poppers and Attendance - 3%

**Note:** The percentage grade on the final exam (without any extra credit) can be used to replace your lowest test score (if it is better).

**GRADING SCALE**

If you call your average “x”:

- A 93 ≤ x ≤ 100
- B- 80 ≤ x < 83
- D+ 67 ≤ x < 70
- A- 90 ≤ x < 93
- C+ 77 ≤ x < 80
- D 63 ≤ x < 67
- B+ 87 ≤ x < 90
- C 73 ≤ x < 77
- D- 60 ≤ x < 63
- B 83 ≤ x < 87
- C- 70 ≤ x < 73
- F 0 ≤ x < 60

**EXAM INFORMATION**

All sections of Math 1432 take common exams. Four regular exams will be given during the semester. The first exam is an online exam that will be available by the first day of class at [http://www.casa.uh.edu](http://www.casa.uh.edu). You have no more than two attempts for exam one. The other three exams will be given in CASA (note the test location when you register). You can access the scheduler for these exams by logging into CourseWare at [http://www.casa.uh.edu](http://www.casa.uh.edu). The scheduler will be available approximately 2 weeks prior to the start of the exam cycle.

- **Exam schedule** is given on the calendar at CASA.
- **Test 1 is online** and it covers pre-requisite material (Calculus 1). Take practice test 1 to see what to expect on Test 1. If you score low on Test 1, may be you are not ready to take this course. It is strongly recommended that you review calculus 1 material (check course website for help materials).
- **Tests 2-4** and the final will be given in CASA Testing Center, see the exam scheduler for details.
- **The exams given in CASA** will consist of both multiple choice and written questions.
- **The multiple choice questions** will be machine graded and the written questions (free response) will be graded by the instructors and teaching assistants.
- **CALCULATORS ARE NOT PERMITTED ON ANY OF THE EXAMS.**
- **There will be a practice test** on Courseware for each exam. 5% of your practice test score will be added to your exam score as bonus. The practice tests will close at 11:59pm on the due date indicated at CASA (no make ups).

**Final Exam:** A comprehensive final exam will be given in CASA. All students must take the final exam in order to pass this course; no opt-out from the final. The final exam is MANDATORY for this class. No early/late finals; plan your trips accordingly. The final will include chapters 7 through 10. Final reservations are made on CASA in a first come first serve basis; there is no guarantee that you will find a seat on your preferred date. If you reserve early (when the reservation opens up), you have better chances of finding a seat on your preferred dates. Plan to be available to take the exam on any date during the examination window given below.
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Exam Dates: (Any changes will be announced on the calendar at CASA)

Test 1 (online): 1/13/20-1/25/20
Test 2: 2/14/20- 2/17/20
Test 3: 3/5/20- 3/7/20
Test 4: 4/10/20 – 4/13/20
Final Exam: 5/1/20 - 5/5/20

Grade Appeals: If you want to appeal your grade on the free response portion of an exam, contact your teaching assistant or instructor within 5 business days after the exam grades are posted. Any alterations on your answer sheet will be considered an academic honesty violation (see Honor Principle paragraph on this syllabus). Grade appeals on any assignments should be made within 5 business days of the posting of the assignment grade.

INSTRUCTIONS FOR ONLINE QUIZZES

- The quizzes are located in the CASA CourseWare course website under the “Online Assignments” tab.
- The quizzes will close on the due dates given on CourseWare at 11:59 pm and will not re-open.
- You have 20 times to take each quiz.
- There is a 60 minute time limit for each quiz.
- The following table shows what sections each quiz covers.
- Check the due dates from CASA.
- Two of the lowest quizzes will be dropped. The primary reason for this policy is to offset the impact of zero/low quiz scores due to emergencies (medical, personal, or otherwise) on a student’s final course grade. Hence, students should not expect to have an option to make up missed quizzes.

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Poppers: Daily grades will be given in lecture beginning the first day of the third week of class. You need to purchase a course packet of Popper Forms for Math 1432 with your section number from the BOOK STORE. You must bring one of these forms to class every day beginning week 3. No other form will be accepted. Questions will be
asked in lecture at random times. You will mark your answers on your form and drop the form in a box at the end of class. Your forms will not be returned.

Do not turn in poppers for classmates who are not in class. If you do so, that popper will not be accepted for any students involved. Repeated offenses might be reported to the departmental hearing officer (see UH Academic Honesty Policy).

If you turned in your popper form but did not get a grade for that popper: that means you have made a bubbling mistake on it and there’s nothing we can do about it. You will not get credit for it.

Lab Quizzes: 6% of your average will come from lab quizzes, which will be given during recitations beginning in week 2. Lab quiz grades are out of 10 points each. I will drop the one lowest lab quiz grade at the end of the semester. The primary reason for this policy is to offset the impact of zero/low quiz scores due to emergencies (medical, personal, or otherwise) on a student’s final course grade. Hence, students should not expect to have an option to make up missed quizzes.

Homework: 6% of your average will come from homework (written and Multiple Choice/EMCF). Written homework is submitted in recitation beginning week 2. "EMCF" stands for "Electronic Multiple Choice Form". EMCF assignments are answered on CourseWare using the EMCF tab. The EMCF assignment questions will be posted on the course calendar page on CourseWare at [http://www.casa.uh.edu](http://www.casa.uh.edu). Please see the course calendar page for more information. Homework grades are out of 10 points each. I will drop the lowest homework grade at the end of the semester. The primary reason for this policy is to offset the impact of zero/low quiz scores due to emergencies (medical, personal, or otherwise) on a student’s final course grade. Hence, students should not expect to have an option to make up missed homework.

LATE ASSIGNMENT AND MAKE-UP POLICIES

This course is a cumulative course. You as a student need to keep up with the reading, quizzes, homework assignments and exams. Students are expected to check the calendar on CASA several times a week and plan ahead so that they don’t miss assignments. We drop some assignments primarily to offset the impact of zero/low scores due to emergencies (medical, personal, or otherwise) on a student’s final course grade. Hence, students should not expect to have an option to make up missed assignments.

If you miss a test, it may be possible to reschedule a test appointment during the testing period (depending on space availability) by using the online scheduler. Do not assume that you will be able to reschedule - check first for availability. Rescheduling must be made online in your account; your instructor is not responsible for finding seats or making reservations for you.

Your final exam score will replace your lowest midterm exam score if the former is higher. A missed test will result in a score of zero. If you miss two or more exams, only one of those scores will be replaced.) The primary reason for this policy is to offset the impact of zero/low test scores due to emergencies (medical, personal, or otherwise) on a student’s final course grade. Therefore, students should not expect to have the option for a make-up test when such an emergency arises. Generally, there will be no make-up tests or "re-tests"*. *Exceptions may be made per the Student Academic Adjustments/Auxiliary Aids Policy for students with approved CSD accommodations (see above), as well as for students with an official excused absence as recognized by University of Houston in accordance with federal and state law.

In case of late enrollment or re-registration after being dropped: No make ups will be provided for
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Assignments missed during the “no access to the course” period due to late enrollment or being dropped. Similarly, if students lose access to CASA for not entering access code by the deadline, there will be no make ups for the assignments they missed during that period.

RECITATIONS (LABS)

Any student who is registered for this course should also be registered for a lab section. You will not receive a separate grade for the lab section. The recitations are led by Teaching Assistants from the mathematics department. Record your TA’s name and email. Labs start on the first day of school (even if your lab is scheduled for a time before the lecture, it will start on the first day).

You will turn in written homework assignments, work on class work assignments and take written quizzes in your lab. Your TA will answer questions you bring to the lab.

Attendance is mandatory. Make sure you attend the lab section you are enrolled for in PeopleSoft. If you attend the wrong section, your grades may not be recorded in the system. Check your lab time and location in PeopleSoft.

Attendance is Mandatory!! Attendance will be taken in lab, and the daily poppers will be used to determine your attendance in lecture. Attending the lectures and labs are important for your learning and success in this class; I strongly recommend that you to do your best to attend both lectures and labs regularly.

COMMUNICATION via EMAIL

Your instructor will be sending class emails using PeopleSoft; you are responsible for checking your UH email. Per UH Policy, notices properly addressed and so sent (for example, via PeopleSoft) shall be presumed to have been received by the student. Thus, you are responsible for the content in emails sent to your UH account, regardless if your external (non-UH) email provider filters or blocks them.

When emailing your instructor, it is recommended that you use a professional email address and include the course name on the subject line so that your instructor can address your questions accordingly. Please read this link for more on communication via email: EMAIL ETIQUETTE (https://www.math.uh.edu/~tomforde/Email-Etiquette.html).

HONOR PRINCIPLE (Academic Honesty Policy)

University of Houston students are expected to adhere to the Academic Honesty Policy as described in the UH Undergraduate Catalog. “Academic dishonesty” means employing a method or technique or engaging in conduct in an academic endeavor that contravenes the standards of ethical integrity expected at the University of Houston or by a course instructor to fulfill any and all academic requirements. Academic dishonesty includes, but is not limited to, the following: Plagiarism; Cheating and Unauthorized Group Work; Fabrication, Falsification, and Misrepresentation; Stealing and Abuse of Academic Materials; Complicity in Academic Dishonesty; Academic Misconduct. Refer to UH Academic Honesty website and the UH Student Catalog for the definition of these terms and university’s policy on Academic Dishonesty. Anyone caught cheating will be reported to the department for further disciplinary actions, receive sanctions as explained on these documents, and will have an academic dishonesty record at the Provosts office. The sanctions for confirmed violations of this policy shall be commensurate with the nature of the offense and with the record of the student regarding any previous infractions. Sanctions may include, but are not limited to: a lowered grade, failure on the examination or assignment in question, failure in the course, probation, suspension, or expulsion from the University of Houston, or a combination of these. Students may not receive a W for courses in which they have been found in violation of the Academic Honesty Policy. If a W is
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received prior to a finding of policy violation, the student will become liable for the Academic Honesty penalty, including F grades.

Posting answers for Homework questions online (at group chats or other online tools) is considered an academic honesty violation. If you are caught sharing answers (in person or online), you might be reported to the departmental hearing officer for an academic honesty violation. Students are expected to know the difference between “getting/giving HELP on a problem” and “getting/giving answers to a problem”. If a student becomes aware of cheating or other violations taking place, that student is responsible for informing the instructor.

The instructor reserves the right to make changes on the syllabus. Any changes will be announced in class or on the course website. Check the calendar on CASA for the most up to date exam schedule and topics covered on each exam.

UH CAPS

Counseling and Psychological Services (CAPS) can help students who are having difficulties managing stress, adjusting to college, or feeling sad and hopeless. You can reach CAPS (www.uh.edu/caps) by calling 713-743-5454 during and after business hours for routine appointments or if you or someone you know is in crisis. No appointment is necessary for the "Let's Talk" program, a drop-in consultation service at convenient locations and hours around campus. http://www.uh.edu/caps/outreach/lets_talk.html

CSD ACCOMMODATIONS

Academic Adjustments/Auxiliary Aids: The University of Houston System complies with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, pertaining to the provision of reasonable academic adjustments/auxiliary aids for students who have a disability. In accordance with Section 504 and ADA guidelines, University of Houston strives to provide reasonable academic adjustments/auxiliary aids to students who request and require them. If you believe that you have a disability requiring an academic adjustments/auxiliary aid, please visit The Center for Students with DisABILITIES (CSD) website at http://www.uh.edu/csd/ for more information.

Accommodation Forms: Students seeking academic adjustments/auxiliary aids must, in a timely manner (usually at the beginning of the semester), provide their instructor with a current Student Accommodation Form (SAF) from the CSD office before an approved accommodation can be implemented.

Details of this policy, and the corresponding responsibilities of the student are outlined in The Student Academic Adjustments/Auxiliary Aids Policy (01.D.09) document under [STEP 4: Student Submission (5.4.1 & 5.4.2), Page 6]. For more information please visit the Center for Students with Disabilities FAQs page.

Additionally, if a student is requesting a (CSD approved) testing accommodation, then the student will also complete a Request for Individualized Testing Accommodations (RITA) paper form to arrange for tests to be administered at the CSD office. CSD suggests that the student meet with their instructor during office hours and/or make an appointment to complete the RITA form to ensure confidentiality.

Students should bring a copy of their approved SAF form when meeting with the instructor to complete a RITA form.

*Note: RITA forms must be completed at least 48 hours in advance of the original test date. Please consult your counselor ahead of time to ensure that your tests are scheduled in a timely manner. Please keep in mind that if you run over the agreed upon time limit for your exam, you will be penalized in proportion to the amount of extra time taken. Please keep in mind
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that if you run over the allotted time indicated on your RITA form, then your exam score will be reduced 1 percentage point for each minute over.

List of discussion/lecture topics

Chapter 7 - Applications of Integration
7.1 Integration Review
7.2 Area
7.3 Volume
7.4 Centroids
7.5 Arc Length and Surface Area
7.6 Differential Equations and Exponential Growth/Decay
7.7 Improper Integrals

Chapter 8 - Techniques of Integration
8.1 Integration by Parts
8.2 Powers of Trigonometric Functions
8.3 Trigonometric Substitutions
8.4 Integrating Rational Functions
8.5 Numerical Integration

Chapter 9 - Sequences and Series
9.1 Sequences and Convergence
9.2 Numerical Series and Convergence
9.3 Tests for Convergence
9.4 The Power Series
9.5 The Taylor Series

Chapter 10 - Polar Coordinates and Parametric Equations
10.1 Polar Coordinates and Polar Curves
10.2 Area and Arc Length in Polar Coordinates
10.3 Parametric Equations
10.4 Derivatives for Curves Given Parametrically
10.5 Arc Length for Curves Given Parametrically
10.6 Surface Area