

### Basic Course Information

Semester	FALL 2023	Instructor Name	Eric Lehtonen
Course Title & #	MATH 194 CALUCLUS II	Email	Eric.lehtonen@imperial.edu
CRN #	11062	Webpage (optional)	
Room	2722	Office	2763
Class Dates	8/14/2023-12/09/2023	Office Hours	TR 10:15-11:15
Class Days	TR	Office Phone #	(619)517-3742
Class Times	7:30-10:05	Office contact if student will be out or emergency	(760)355-6201 (619)517-3742
Units	4		

### Course Description

#### COURSE/CATALOG DESCRIPTION:

A second course in differential and integral calculus of a single variable: integration; techniques of integration; infinite sequences and series; polar and parametric equations; applications of integration. Primarily for Science, Technology, Engineering & Math Majors. (C-ID: MATH 220) (CSU/UC)

### Student Learning Outcomes

Upon course completion, the successful student will have acquired new skills, knowledge, and or attitudes as demonstrated by being able to:

1. Demonstrate problem solving strategies by identifying an appropriate method to solve a given problem, correctly set up the problem, perform the appropriate analysis and computation, and share their interpretation of the conclusion or the outcome, using correct grammar or in an oral presentation. This outcome will be assessed through selected exercises on exams throughout the semester.

### Course Objectives

Upon satisfactory completion of the course, students will be able to:

1. Evaluate definite and indefinite integrals using a variety of integration formulas and techniques
2. Apply integration to areas and volumes, and other applications such as work or length of a curve
3. Evaluate improper integrals
4. Apply convergence tests to sequences and series
5. Represent functions as power series
6. Graph, differentiate and integrate functions in polar and parametric form

### Textbooks & Other Resources or Links

TextStewart, James. 2015. *Calculus: Early Transcendentals*. 8th Brooks/Cole. ISBN: 9781285741550.

### Course Requirements and Instructional Methods

**Calculator:** The TI-30 or equivalent scientific Calculator. **Graphing Calculators are not permitted.**

Out of Class Assignments: The Department of Education policy states that one (1) credit hour is the amount of student work that reasonably approximates not less than one hour of class time and two (2) hours of out-of-class time per week over the span of a semester. WASC has adopted a similar requirement.

### Course Grading Based on Course Objectives

Final Exam	30%	There will be a comprehensive final
Tests	60%	There will be 4 tests.
Special assignments	10%	TBA

### Attendance

- A student who fails to attend the first meeting of a class or does not complete the first mandatory activity of an online class will be dropped by the instructor as of the first official meeting of that class. Should readmission be desired, the student's status will be the same as that of any other student who desires to add a class. It is the student's responsibility to drop or officially withdraw from the class. See General Catalog for details.
- Regular attendance in all classes is expected of all students. A student whose continuous, unexcused absences exceed the number of hours the class is scheduled to meet per week may be dropped. For online courses, students who fail to complete required activities for two consecutive weeks may be considered to have excessive absences and may be dropped.
- Absences attributed to the representation of the college at officially approved events (conferences, contests, and field trips) will be counted as 'excused' absences.

### Classroom Etiquette

- Food and Drink are prohibited in all classrooms. Water bottles with lids/caps are the only exception. Additional restrictions will apply in labs. Please comply as directed.
- Disruptive Students: Students who disrupt or interfere with a class may be sent out of the room and told to meet with the Campus Disciplinary Officer before returning to continue with coursework. Disciplinary procedures will be followed as outlined in the General Catalog.
- Children in the classroom: Due to college rules and state laws, no one who is not enrolled in the class may attend, including children.

### Academic Honesty

- Plagiarism is taking and presenting as one's own the writings or ideas of others, without citing the source. You should understand the concept of plagiarism and keep it in mind when taking exams and preparing written materials. If you do not understand how to 'cite a source' correctly, you must ask for help.
- Cheating is defined as fraud, deceit, or dishonesty in an academic assignment, or using or attempting to use materials, or assisting others in using materials that are prohibited or inappropriate in the context of the academic assignment in question.

Anyone caught cheating or will receive a zero (0) on the exam or assignment, and the instructor may report the incident to the Campus Disciplinary Officer, who may place related documentation in a file. Repeated

acts of cheating may result in an F in the course and/or disciplinary action. Please refer to the General School Catalog for more information on academic dishonesty or other misconduct. Acts of cheating include, but are not limited to, the following: (a) plagiarism; (b) copying or attempting to copy from others during an examination or on an assignment; (c) communicating test information with another person during an examination; (d) allowing others to do an assignment or portion of an assignment; (e) using a commercial term paper service.

#### **Additional Help – Discretionary Section and Language**

- Blackboard support center: <http://bbcrm.edusupportcenter.com/ics/support/default.asp?deptID=8543>
- Learning Labs: There are several ‘labs’ on campus to assist you through the use of computers, tutors, or a combination. Please consult your college map for the Math Lab, Reading & Writing Lab, and Study Skills Center (library). Please speak to the instructor about labs unique to your specific program.
- Library Services: There is more to our library than just books. You have access to tutors in the Study Skills Center, study rooms for small groups, and online access to a wealth of resources.

#### **Disabled Student Programs and Services (DSPS)**

Any student with a documented disability who may need educational accommodations should notify the instructor or the Disabled Student Programs and Services (DSP&S) office as soon as possible. The DSP&S office is located in Building 2100, telephone 760-355-6313, if you feel you need to be evaluated for educational accommodations.

#### **Student Counseling and Health Services**

Students have counseling and health services available, provided by the pre-paid Student Health Fee. We now also have a fulltime mental health counselor. For information see <http://www.imperial.edu/students/student-health-center/>. The IVC Student Health Center is located in the Health Science building in Room 2109, telephone 760-355-6310.

#### **Student Rights and Responsibilities**

Students have the right to experience a positive learning environment and due process. For further information regarding student rights and responsibilities, please refer to the IVC General Catalog available online at [http://www.imperial.edu/index.php?option=com\\_docman&task=doc\\_download&gid=4516&Itemid=762](http://www.imperial.edu/index.php?option=com_docman&task=doc_download&gid=4516&Itemid=762)

#### **Information Literacy**

**Required Language:** Imperial Valley College is dedicated to helping students skillfully discover, evaluate, and use information from all sources. Students can access tutorials at <http://www.imperial.edu/courses-and-programs/divisions/arts-and-letters/library-department/info-lit-tutorials/>

#### **Anticipated Class Schedule / Calendar**

### **CLASS AND TEST SCHEDULE**

Imperial Valley College Course Syllabus – Course Title and number

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<b>WEEK 1</b>		<b>WEEK 7</b>		<b>WEEK 13</b>	
AUG 15	Intro, 6.1	SEP 26	REVIEW	NOV 7	11.6,11.7
AUG 17	6.2	SEP28	TEST 2	NOV 9	11.8
<b>WEEK 2</b>		<b>WEEK 8</b>		<b>WEEK 14</b>	
AUG 22	6.3	OCT 3	8.1,8.2	NOV 14	11.9
AUG 24	6.4,6.5	OCT 5	10.1,10.2	NOV 16	11.10
<b>WEEK 3</b>		<b>WEEK 9</b>		<b>WEEK 15</b>	
AUG 29	7.1	OCT 10	10.3	NOV 21	HOLIDAY
AUG 31	7.2	OCT 12	10.4	NOV 23	HOLIDAY
<b>WEEK 4</b>		<b>WEEK 10</b>		<b>WEEK 16</b>	
SEP 5	REVIEW	OCT 17	10.5	NOV 28	REVIEW
SEP 7	TEST 1	OCT 19	REVIEW	NOV 30	TEST 4
<b>WEEK 5</b>		<b>WEEK 11</b>		<b>WEEK 17</b>	
SEP 12	7.3	OCT 24	TEST 3	DEC 5	REVIEW
SEP 14	7.4,7.5	OCT 26	11.1,11.2	DEC 7	FINAL EXAM
<b>WEEK 6</b>		<b>WEEK 12</b>			
SEP 19	7.7,	OCT 31	11.3,11.4		
SEP21	7.8	NOV 2	11.5		