

### Basic Course Information

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|------------------|-------------------------|--|--------------------------------------|
| Semester         | <b>SPRING 2017</b>      | Instructor Name                                    | <b>Eric Lehtonen</b>                 |
| Course Title & # | <b>M194 CALCULUS II</b> | Email  | <b>Eric.lehtonen@imperial.edu</b>    |
| CRN #            | <b>20136</b>            | Webpage (optional)                                 |                                      |
| Room             | <b>2721</b>             | Office   | <b>2763</b>                          |
| Class Dates      | <b>2/14-6/9</b>         | Office Hours                                       | <b>MW 5:00-6:00<br/>TR 1:00-2:00</b> |
| Class Days       | <b>MW</b>               | Office Phone #                                     | <b>(760)355-6522</b>                 |
| Class Times      | <b>2:00-4:05</b>        | Office contact if student will be out or emergency | <b>(760)355-6155</b>                 |
| Units            | <b>4</b>                |  |                                      |

### Course Description

#### COURSE/CATALOG DESCRIPTION:

Concepts dealing with integration applications, methods of integration, infinite series, plane analytic geometry, parametric equations, and polar coordinates.

### 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 understanding of various techniques of integration (ILO2)
2. Demonstrate ability to solve applications of integration. (ILO1, ILO2, ILO4)
3. Demonstrate ability to apply various tests for convergence determination. (ILO2)
4. distinguish the various types of conic sections (ILO2)
5. Demonstrate knowledge of the polar system of coordinates. (ILO2)

### Course Objectives

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

1. Demonstrate the ability to solve many problems in diverse areas, in a step-by-step manner, when dealing with applications of integration.
2. Demonstrate knowledge and understanding of various methods used in mathematical integrations.
3. Be introduced to various indeterminate forms and be able to evaluate improper integrals.
4. Recognize infinite sequences and infinite series and will apply various tests for convergence determination.
5. Demonstrate knowledge in series expansion and the concept of power series.
6. Will learn and distinguish the various types of conic sections.
7. Demonstrate knowledge of the polar system of coordinates and its use in applications.

### Textbooks & Other Resources or Links

**Text: Larson: Calculus 10<sup>th</sup> ed. ISBN 978-1-285-05709-5**

### 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      | 70% | There will be four tests.           |
|            |     |                                     |

### 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

|        |              |        |        |
|--------|--------------|--------|--------|
| Aug 18 | Introduction | Oct 20 | Review |
|--------|--------------|--------|--------|

Imperial Valley College Course Syllabus – Course Title and number

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|        |                   |        |                     |
|--------|-------------------|--------|---------------------|
|        |                   | Oct 22 | <b>Test 3</b>       |
| FEB 14 | <b>Intro, 7.1</b> | APR 11 | 10.1,10.2           |
| FEB 16 | 7.2               | APR 13 | 10.3                |
| FEB 21 | 7.3               | APR 18 | <b>Spring Break</b> |
| FEB 23 | 7.4               | APR 20 | <b>Spring Break</b> |
| FEB 28 | 7.5,7.6           | APR 25 | 10.4                |
| MAR 2  | <b>Review</b>     | APR 27 | 10.5                |
| MAR 7  | <b>Test 1</b>     | MAY 2  | <b>Review</b>       |
| MAR 9  | 8.1               | MAY 4  | <b>Test 3</b>       |
| MAR 14 | 8.2               | MAY 9  | 9.1,9.2             |
| MAR 16 | 8.3               | MAY 11 | 9.3,9.4             |
| MAR 21 | 8.4               | MAY 16 | 9.5,9.6             |
| MAR 23 | 8.5,8.6           | MAY 18 | 9.7,9.8             |
| MAR 28 | 8.7               | MAY 23 | 9.9                 |
| MAR 30 | 8.8               | MAY 25 | <b>9.10</b>         |
| APR 4  | <b>Review</b>     | MAY 30 | <b>Review</b>       |
| APR 6  | <b>Test 2</b>     | JUN 1  | <b>Test 4</b>       |
|        |                   | JUN 6  | <b>Review</b>       |
|        |                   | JUN 8  | <b>Final</b>        |