Semester and Year: Spring 2020
Meeting Dates: 03/23 – 5/14
Section: 80430
Class time and days: M-Su
Room: INET
Instructor: Sara Weiss
Contact Info: sweiss@dccc.edu, please see email instructions below
Last date to withdraw: 3/28 Without a W; 5/1 With a W
Final Exam Day and time: All parts due 5/14 by 11:59pm
MyMathLab Course ID: Weiss84498

NOTE: A 14-day temporary access is available so that you may begin immediately on the first day of class. You must purchase a code prior to the end of those 14-days or all work will be “lost” until you update with a purchased code. During that “lost” time, even the instructor has no access to your work, hence yielding a grade of 0 on all work until you update with a purchased code. If you choose to complete all or at least as much of the online work possible prior to the end of the 14 day period, and never update, your grade at the end of the semester will be 0 for all MML grades because the instructor will not have access to any of your grades at the end of the semester. It will be as though you were never in MML.

Evaluation Procedures
All work to be graded must be completed in pencil.

| Activity                        | Percentage | Grade Range | Grade
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Tests (3)</td>
<td>20% each</td>
<td>90 – 100%</td>
<td>A</td>
</tr>
<tr>
<td>Discussion Board Questions</td>
<td>4% total</td>
<td>80 – 89%</td>
<td>B</td>
</tr>
<tr>
<td>Information Sheet</td>
<td>1% total</td>
<td>70 – 79%</td>
<td>C</td>
</tr>
<tr>
<td>Homework (in My Math Lab)</td>
<td>15% total</td>
<td>60 – 69%</td>
<td>D</td>
</tr>
<tr>
<td>Comprehensive Final Exam</td>
<td>20% total</td>
<td>Below 60%</td>
<td>F</td>
</tr>
</tbody>
</table>

DISCUSSION BOARDS

1. There are Discussion board topics in Ecampus. These are worth 4% of your grade. Follow the instructions carefully in order to earn full credit for the discussion boards. The due dates are listed in the post. They will close at 11:59 pm on the due date.
2. The topics on the discussion boards vary and all require you to respond to other students’ entries. Waiting until the last minute does not permit for “discussion”. Keep that in mind.

Tests:
It is the student’s responsibility to arrange to take the tests during the designated time. Tests will not be given before or after the specified test time! Work must be shown on the tests to receive credit. The tests are online, and you will be uploading work for certain questions. Under extenuating circumstances, and with proper documentation, one (and only one) missed test may be replaced by the final exam.

Each online exam covers the chapters outlined in the calendar.
1. The exam is to be taken in My Math Lab, you will be notified by email once the exam is available. The dates will also be shown on the calendar.
2. All answers must be justified by written work leading to that solution. You could receive little or no credit on problems where the work doesn’t support the answer given in MyMathLab, even if the answer is correct. Follow all directions.
3. After you take the exam, you need to submit your written work within 30 minutes. There are time stamps on both, so this will be considered. If the written work is late, up to 2 points will be deducted for each minute over the 30 minute window. Write out your work, do not type. You may scan your work or take pictures of it with your phone or camera. Once completed, only one PDF document should be submitted in eCampus. If you have multiple images, open a Word document and drag the pictures over to that file (only 1 picture per page, resize images, if necessary, to fill as much of the page as possible) then go to "File" > "Export" > "Create a PDF". Once you have done this, open the document and check that it is readable, in order, and that each piece of paper that you used is full size on a separate page in the document. Note that as a DCCCD student, Microsoft Word is included free with Office 365. Click here for more information.
4. Submit work in eCampus by 12:29am on the due date, with the exception of the final exam, for the final, both parts must be in by 11:59pm. No late work is accepted.

Email Communication: Please use the following email etiquette: use Professor Weiss or Ms. Weiss as your salutation, use correct spelling, capitalization, punctuation, and grammar, close the email with your name. Always include a subject line containing your course (Math 2415). If any of these criteria are not met, your email will likely be deleted.

Attendance Policy: In order to be successful, students must attend and participate in enrolled courses.

Required Materials:

2. A calculator from the TI-83 or TI-84 families is recommended. It should be one without a computer algebra system or algebraic manipulation ability.

A 14-day temporary access to MyMathLab is available so that you may get started on the course. Your access must be updated with a valid, purchased code prior to the end of the 14 days or your access will be closed. Follow the instructions in the received email to update your account.

Class Calendar:

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Sunday</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
<th>Saturday</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>03/22</td>
<td></td>
<td>Read the syllabus and register for MML</td>
<td>12.1</td>
<td>12.2</td>
<td>12.3</td>
<td>12.4</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>03/29</td>
<td>12.6</td>
<td>13.1</td>
<td>13.2</td>
<td>13.3</td>
<td>13.4</td>
<td>13.5</td>
<td>13.6</td>
</tr>
<tr>
<td>3</td>
<td>04/05</td>
<td>STUDY</td>
<td>Review Test 1</td>
<td>Test 1 - Please reread the syllabus section on uploading test materials.</td>
<td>14.1</td>
<td>14.2</td>
<td>14.3</td>
<td>14.4</td>
</tr>
<tr>
<td>4</td>
<td>04/12</td>
<td>14.5</td>
<td>14.6</td>
<td>Discussion Board and 14.7</td>
<td>14.8</td>
<td>14.9</td>
<td>14.1</td>
<td>15.1</td>
</tr>
<tr>
<td>5</td>
<td>04/19</td>
<td>15.2</td>
<td>15.3</td>
<td>Review Test 2</td>
<td>Test 2 - Please reread the syllabus section on uploading test materials.</td>
<td>15.4</td>
<td>15.5</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>04/26</td>
<td>15.6</td>
<td>15.7</td>
<td>15.8</td>
<td>16.1</td>
<td>16.2</td>
<td>16.3</td>
<td>16.4</td>
</tr>
<tr>
<td>7</td>
<td>05/03</td>
<td>16.5 and 16.6</td>
<td>Review Test 3</td>
<td>Test 3 - Please reread the syllabus section on uploading test materials.</td>
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<td></td>
<td></td>
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<tr>
<td>8</td>
<td>05/10</td>
<td>16.7 and 16.8</td>
<td>Review for the Final Exam</td>
<td>Final Exam Due at 11:59pm - Both Parts</td>
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</table>
Instructor Policies and Suggestions for Student Success:

TUTORING:
Tutoring is available in The Learning Center, in M 216. You need a Richland College ID card. There are computers there as well so you can work on your online homework if necessary. Check in M 216 for the times.

COMPUTER LAB AVAILABILITY:

1. Computers are available in Del Rio in the General Access lab on the 2nd floor, and during open lab hours in D 248. Check those rooms for the times. These labs are only open during the open hours of Richland College.

2. Richland College is wi-fi enabled. This is shut off when the campus is closed. Please note those dates in the calendar.

PLAN AHEAD: There are no extensions on any due dates for any reason. If you wait till the last hour or two to begin a Quiz, Exam, or assignment and a) MyMathLab is down or b) the exam times out or c) you run out of time and don’t finish, you will receive the grade earned on the completed portion. If you don’t do the asmt (etc) at all, you will receive a zero. Basically, you know when all the due dates are in the schedule above. If you wait till the last day to try to complete something and MyMathLab is down, or your computer crashes, then you earn a zero on that missed activity, be it a test, assignment, or quiz.

1. Sending a question or whatever to me the evening of a due date requesting help on a question, or stating that whatever won’t open… these emails will usually not be received until the next day. That will probably be too late to help, although I will still respond. Please plan ahead and try to work ahead so that if you send an email question in the evening, its response email will be before the due date for you.

2. Studying for math is different than studying for other subjects. Just looking through your notes or homework or the book and saying to yourself “oh, I remember that…” is not studying. You must actually work problems out and practice mathematics in order to learn it. Watching someone else (even if it was your own work “yesterday”) doesn’t help you much. Students, who are successful in this course, work a lot of problems for practice. Math must be studied with pencil and paper.

3. Ask questions!!! You may email questions to me. I am willing to try to schedule an appointment. However, I only get “stood up” once. I do not have any office hours on campus.

4. I will respond to emails that are appropriately addressed (course and section number in the subject line and your full name as a signature) within 48 hours of receipt. Emails coming from MML give all of the descriptors required, however, it really helps me out to answer your question if you give me details about your questions!
5. Emails received after noon on Friday will probably not be answered until Monday morning. This extends to the day prior to a holiday and to the day following a holiday if the case arises.

6. I am not tech support! If you have concerns about MML, you must contact Tech support for Coursecompass: 1-800-677-6337, or email at Contact MyMathLab (www.mymathlab.com/contactus.html)

7. I am not tech support! If you have concerns about Ecampus, you must contact Tech support for Ecampus: 1-866-974-7169. This does not include grade entries.

8. Grades are not automatically transferred from MyMathLab – I must enter them. For grade entry issues in Ecampus, send me an email. Sometimes, I mistype. I will catch the errors at the end of the semester, but if you catch them earlier please let me know and I will fix them.

9. I send out a weekly email with reminders on due dates. That is NOT a replacement for the calendar above. The list of due dates in MML does not include items not in MML. The calendar above has the full list and should be followed closely. Discussion Boards due dates are on ecampus.

10. Grades are based on your performance on graded tasks. (See Evaluation procedures above.) If you find you are not earning the grade you want or need, please make use of asking questions by email and/or the tutors in TLC. No extra work or assignments exist to raise your grade.

11. Grades are not computed using points. Each assignment/graded activity has a specific weight in the grade. These weights are listed in the Evaluation procedures on page 1. Computing your grade using any other method than the Evaluation procedures is wrong.

Allow time for computer and/or internet problems – do not wait until the last minute to submit work. You have the option of either working from your home computer or from computers that are available on campus. If you choose to work from your personal computer, it is your responsibility to maintain both it and your internet service in good working order. If you choose to do your work at school, it is your responsibility to know the hours that a computer lab is available.
COURSE SPECIFIC INFORMATION

Catalog Course Description
This course is a study of advanced topics in calculus, including vectors, and vector-valued functions, partial differentiation, Lagrange multipliers, multiple integrals, and Jacobians; application of the line integral, including Green’s Theorem, the Divergence Theorem, and Stokes Theorem.

Prerequisites
Math 2414 or equivalent.

Learning Outcomes
Upon successful completion of this course, students will:
1. Perform calculus operations on vector-valued functions, including derivatives, integrals, curvature, displacement, velocity, acceleration, and torsion.
2. Perform calculus operations on functions of several variables, including partial derivatives, directional derivatives, and multiple integrals.
3. Find extrema and tangent planes.
4. Solve problems using the Fundamental Theorem of Line Integrals, Green’s Theorem, the Divergence Theorem, and Stokes’ Theorem.
5. Apply the computational and conceptual principles of calculus to the solutions of real-world problems.

Core Statement
This course is not in the Core 2015 at DCCCD. However, the following Core objectives are still addressed in this course and will be assessed through the content of this course:
- Critical Thinking Skills: to include creative thinking, innovation, inquiry, and analysis, evaluation and syntheses of information
- Communication Skills: to include effective development, interpretation and expression ideas through written, oral and visual communication
- Empirical and Quantitative Skills: to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions

Specific Content Coverage

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
<th>Objectives covered</th>
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</thead>
<tbody>
<tr>
<td>12.1</td>
<td>Three-Dimensional Coordinate Systems</td>
<td>1, 2</td>
</tr>
<tr>
<td>12.2</td>
<td>Vectors</td>
<td>1</td>
</tr>
<tr>
<td>12.3</td>
<td>The Dot Product</td>
<td>1</td>
</tr>
<tr>
<td>12.4</td>
<td>The Cross Product</td>
<td>1, 5</td>
</tr>
<tr>
<td>12.5</td>
<td>Lines and Planes in Space</td>
<td>1</td>
</tr>
<tr>
<td>12.6</td>
<td>Cylinders and Quadric Surfaces</td>
<td>2</td>
</tr>
<tr>
<td>13.1</td>
<td>Curves in Space and Their Tangents</td>
<td>1</td>
</tr>
<tr>
<td>13.2</td>
<td>Integrals of Vector Functions; Projectile Motion</td>
<td>1</td>
</tr>
<tr>
<td>13.3</td>
<td>Arc Length in Space</td>
<td>1</td>
</tr>
</tbody>
</table>
Academic Dishonesty in Math Classes
Academically dishonest behavior is, in general, the representation of another’s work as one’s own. This includes unauthorized collaboration between students, and on exams it includes using books, notes, or other unauthorized materials or websites or apps during the exam. Students who behave in academically dishonest ways may have their grade penalized, or be subject to disciplinary action by the Dean of Students. Students who collaborate during exams or use unauthorized materials or websites or apps on exams may, at the instructor’s discretion, have the exam grade lowered or be given a grade of zero. In the instance that a student is given the grade of zero on a unit exam, the right of
having any unit exam grade replaced with the Final Exam grade is forfeited. Students who are academically dishonest on the Final Exam may, at the instructor’s discretion, have the grade lowered, be given a grade of zero on the final, or be given the grade of F in the course.

RICHLAND COLLEGE INSTITUTIONAL POLICIES

Institutional Policies relating to this course can be accessed from the following link:
www.richlandcollege.edu/syllabipolicies