MAC 2313 – CALCULUS WITH ANALYTIC GEOMETRY III  
FALL 2017 (8/14-12/8/2017)  
MONDAY/WEDNESDAY  2:00-3:40 PM  NM 101

Instructor  
Dr. Jack. Hughes  
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Phone  
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Academic Department  
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Office location:  
Office location:  
Office number:  

Academic Chair:  
Joy Moore  
Office number:  
(727)791-2542

Office location:  
Office location:  
Office number:  

Textbook  
Calculus, 10th Edition, Larson/Edwards  
Stand alone text or  
Calculus eText, 10th Edition, Larson/Edwards

Technology  
Graphing Calculator (TI-92 or TI-89) REQUIRED

WEBASSIGN Class Key:  
spcollege 9597 0954

COURSE PREREQUISITE  
MAC 2312 or appropriate score on Mathematics Placement.  This is a lecture/problem solving class

COURSE DESCRIPTION  
This course designed to follow MAC 2312.  Topics includes vectors in the plane and space, three-dimensional surfaces, various coordinate systems, vector-valued functions, differential calculus of functions of several variables, gradients, directional derivatives, applications of partial derivatives, multiple integration, vector analysis, line integrals, and surface integrals with applications.  Four hours weekly

COURSE OBJECTIVES  
1. The student will be able to apply concepts of the geometric properties and calculus concepts involving surfaces, two-and three-dimensional vectors, vector-valued functions, planes, lines and the cylindrical and spherical coordinate systems.
2. The student will be able to apply the concepts of limits, continuity, differentiability and the chain rule to functions of several variables.
3. The student will be able to apply knowledge of the theory of calculus of functions of several variables to applied problems.
4. The student will be able to apply the extension of the concept of the “definite integral” to two- and three-dimensional settings and acquire an understanding of the theoretical development with respect to Riemann Sums.
5. The student will be able to apply concepts of multiple integrals to applied problems.
6. The student will be able to apply the concept of vector analysis to applied problems.

The complete Approved Course Outline for this course is given at  
http://www.spcollege.edu/clw/math_science/course/MAC2313.htm

The publisher’s website is  
http://college.hmco.com/mathematics/larson/calculus_analytic/8e/students_home.html
IMPORTANT COLLEGE POLICY REGARDING COURSE DROP-ADD PERIOD AND AUDIT INFORMATION

Students CANNOT add a course following the 1st day the class meets. Students CAN drop a course during the 1st week of class and be eligible for a refund. (See a counselor/advisor to finalize your schedule, so you won’t be left without the classes you want or need). Students may not change from credit to audit status after the end of the first week of classes.

ATTENDANCE, ACTIVE PARTICIPATION, AND WITHDRAWAL POLICY

In January 2008 the college implemented a new attendance policy. Revised Board of Trustees rule 6Hx23-4.30 replaces the information found on pages 136 and 137 in the Student Rights and Responsibilities section of the 2008-09 Student Planner and Handbook.

Each instructor must exercise professional judgment to determine if you are actively participating in class. Faculty will publish their own personal participation/attendance policies in their syllabi. This policy will be used to determine grades. If you are not actively participating in class as defined in an instructor’s syllabus, you will be reported to the administration during the week following the voluntary withdrawal date. Instructors will verify that you are in attendance during the first two weeks of class. If you are classified as a “No Show” for both of the first two weeks, you will be administratively withdrawn.

Immediately following the 60% point of the term, each instructor will verify which students are actively participating in class as defined in the course syllabus. If you are classified as not meeting the criteria for active class participation, you will be administratively withdrawn with a “WF.” You will be able to withdraw yourself at any time during the term. Requests submitted after the 60% deadline, however, will result in a “WF.” You and your instructor will automatically receive notification through SPC e-mail whenever a withdrawal occurs.

Withdrawing after the “Last Day to Withdraw with a Grade of ‘W’” (see Academic Calendar below) can have serious consequences. If you withdraw from a class after this deadline posted in the academic calendar, you will receive a final grade of ‘WF,’ which has the same impact on your GPA as a final grade of ‘F.’ A ‘WF’ grade also could impact your financial aid and cause you to have to repay some of your assistance. If you are thinking about withdrawing from a class now, you should consult with your academic advisor or financial aid counselor first to be sure you understand all the possible outcomes of this decision.

The college-wide attendance policy is included in the Syllabus Addendum http://www.spcollege.edu/central/asa/addendum.htm. The policy notes that each instructor is to exercise professional judgment and define “active participation” in class (and therefore “attendance”), and publish that definition in each syllabus. For this class, attendance is defined as completing the assigned coursework. Students are required to attend class regularly and on time. Important information is given on each class day. Missing class could be a disadvantage, thus causing the student to lag behind in concepts and connections of course material. If, for any reason, a student is absent, he or she is responsible for class notes (i.e. make copies from classmates). If a student is absent, it is he or she responsibility to notify the instructor before the class meeting. Attendance will be taken during the first two weeks of class and during the week following 60 percent point of the term. Please note that withdrawals from this class can ONLY be initiated by the student. The instructor CANNOT withdraw you from the class. If a student wishes to withdraw from the course, it is his/her responsibility to withdraw. The withdrawal date is October 19 Students who withdraw by this date will receive a W. Any student who has not withdrawn by that last day to withdraw will receive a W/F. It is your responsibility to keep track of this date and assess your progress by that point in time. Students who abandon the course or do not withdraw themselves are subject to receive a grade of F. To withdraw, log into MySPC. Choose "Drop/Withdraw from a class" on the right under Academics. Select the term and follow the directions to withdraw. Students in the third attempt of a course who withdraw will receive a WF regardless of the date of withdrawal.
FEDERAL GUIDELINES RELATED TO FINANCIAL AID AND TOTAL WITHDRAWAL FROM THE COLLEGE

The U.S. Department of Education has implemented rules for students who obtain a Pell Grant, Stafford Loan, and/or Federal Supplemental Educational Opportunity Grant and subsequently totally withdraw from the College. The rule requires you to refund to the Department of Education a portion of your financial aid if you completely withdraw from St. Petersburg College prior to the 60% point in the term. You also may be required to repay funds to the College if you are identified as not actively participating in all of your classes, or if you do not receive at least one final passing grade (D or higher). Should you consider totally withdrawing from all classes before the published withdrawal date, it is important that you consult the Scholarships & Student Financial Assistance office on your home campus to understand your options and the consequences of total withdrawal.

IMPORTANT DATES

Course Dates: 08/14 – 12/8/2017
Deadline to drop with refund: 08/18/2017
Deadline to withdraw with grade of “W”: 10/19/2017
Final grades posted: 12/8/2017

COLLEGE CALENDAR
http://www.spcollege.edu/calendar/

TESTING: Tests will be given at the conclusion of each unit. No drop tests will be allowed; each test must be completed on time. Make-up tests will be given in only extreme circumstances (i.e. family emergencies, injury, etc.). If an exam is missed without prior consultation (exceptions being the reasons listed above), the score for that exam is a “0.”

QUIZZES: Students may expect a quiz at any class meeting on the assigned exercises for that class meeting or quiz over previous material. All work must be shown for credit. The quiz grades with equal one test grade at the end of the semester.

ASSIGNMENTS: Assignments will be given every class session, but will not be collected. Students are responsible for performing all problems assigned thoroughly and preparing themselves for questions during the class sessions and for quizzes.

GRADING: Your final grade will be composed of unit tests, quizzes and the final exam. The grading scale is as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
<th>Approximate Quiz Grade</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90 – 100</td>
<td>Tests = 60%</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>80 – 89</td>
<td>Quiz Grade = 25%</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>70 – 79</td>
<td>Final Exam = 15%</td>
<td></td>
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<tr>
<td>D</td>
<td>60 – 69</td>
<td>TOTAL = 100%</td>
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<tr>
<td>F</td>
<td>below 60</td>
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EXTRA HELP: I am available in my office during times posted on office door. For any extra help besides posted hours, please make arrangements to meet in my office. Tutoring is also available from the Learning Support Center. See posted hours.

FEDERAL GUIDELINES RELATED TO FINANCIAL AID AND TOTAL WITHDRAWAL FROM THE COLLEGE: The U.S. Department of Education has implemented rules for students who obtain a Pell Grant, Stafford Loan,
and/or Federal Supplemental Educational Opportunity Grant and subsequently totally withdraw from the college. The rule requires you to refund to the Department of Education a portion of your financial aid if you completely withdraw from St. Petersburg College before the 60% point in the term. You also may be required to repay funds to the college if you are identified as not actively participating in all of your classes, or if you do not receive at least one final passing grade (D or higher). Should you consider totally withdrawing from all classes before the published withdrawal date, it is important that you consult the Financial Assistance Services office on your home campus to understand your options and the consequences of total withdrawal.

SEXUAL OFFENDER STATEMENT: Federal and State law requires a person designated as a "sexual predator or offender" to register with the Florida Department of Law Enforcement (FDLE). The FDLE then is required to notify the local law enforcement agency where the registrant resides, attends or is employed by an institution of higher learning. Information regarding sexual predators or offenders attending or employed by an institution of higher learning may be obtained from the local law enforcement agency with jurisdiction for the particular campus, by calling the FDLE hotline (1-888-FL-PREDATOR) or (1-888-357-7332), or by visiting the FDLE website at www.fdle.state.fl.us/sexual_predators. If there are questions or concerns regarding personal safety, please contact the Provost, Associate Provost, Campus Security Officer or Site Administrator on your campus.

EMERGENCY PREPAREDNESS In the event that a hurricane or other natural disaster causes significant damage to St. Petersburg College facilities, you may be provided the opportunity to complete your course work online. Following the event, please visit the college web site for an announcement of the College's plan to resume operations. This syllabus is currently available in MyCourses for your convenience. Log in to MyCourses to confirm that you have access, reporting any difficulty to the SPC Student Technical Call Center at 727-341-4357 or via email at Onlinehelp@spcollege.edu.

CAMPUS SAFETY AND SECURITY: For information on campus safety and security policies please contact 727-799-2560. For information on sexual offenders on your campus please contact campus security or the associate provost office or for general information go to the State of Florida website at http://www3.fdle.state.fl.us/sopu/index.asp.

ACADEMIC HONESTY: St. Petersburg College has an Academic Honesty policy. It is your responsibility to be familiar with the policies, rules, and the consequences of violations. Read about the policy at: http://www.spcollege.edu/webcentral/admit/honesty.htm. There is no tolerance for cheating and academic dishonesty. Discipline can range from a zero on that specific assignment to expulsion from the class with a grade of F. Note that copy/pasting published information, whether it's from your textbook or the Internet, without citing your source is plagiarism and violates this policy. Even if you change the words slightly, the ideas are someone else's, so you still have to cite your sources.

SPECIAL ACCOMMODATIONS: If you wish to request accommodations as a student with a documented disability, please make an appointment with the Learning Specialist on campus. If you have a documented hearing loss, please contact the Program for the Deaf/Hard of Hearing at 791-2628. If you need assistance during an emergency classroom evacuation, please contact your campus learning specialist immediately about arrangements for your safety. The Office of Services for Students with Disabilities can be reached at 727-341-4758.

INFORMATION TECHNOLOGY POLICY:
- Information technology use that supports and enables the effective and efficient completion of job description duties and assigned tasks is acceptable.
- Information technology use by faculty (and students under the direction of faculty) that contributes to scholarly research and academic work within the boundaries of the approved curriculum is acceptable.
- Occasional and infrequent personal use that does not interfere with job duties, supersede work responsibilities, or add additional costs to the College is acceptable. The cost to the employee per page for printing shall be the same as the cost per page for a photocopy as set forth in District Board of Trustees' Rule 6Hx23-5.17.
Prohibited Use

- Use of College information technology to break any international, federal, state or local law (or to aid in any crime) is prohibited.
- Use of College information technology for creation, storage, display or transmission of profit-oriented, commercial, political, or business purpose is prohibited.
- Consistent with the College’s sexual harassment policy, creating, viewing, storing, transmitting or public displaying pornographic (as defined by the U. S. Supreme Court), obscene, defaming, slanderous, harassing, or offensive data (including sound, video, text, and graphics data) is prohibited.
- Circumventing established College software security procedures or obtaining information system access and passwords to which one is not entitled is prohibited.
- Unauthorized alteration or removal of College hardware security systems is prohibited.
- Unauthorized modifications to College hardware or software are prohibited.
- Unauthorized access, alteration, or destruction of another employee’s data, programs, or electronic mail is prohibited.
- Connecting or installing personal or non-College owned information technology hardware or software to the College network without prior approval is prohibited.
- Installing non-College owned software without prior approval and documented proof of legal licensure is prohibited.

Inspection

- The Board reserves the right to review and inspect all data and materials on any computer furnished by the College to any student or employee.

Consequences of Unacceptable Use

- Unacceptable use may result in the revocation of access to College information technology and may result in disciplinary action.

Dates to know:

- Monday, September 4 Labor Day - No class
- Tuesday, October 31 College Day - No class
- Wednesday-Friday, November 22-24 Thanksgiving Break—No Class

Drop/Add and Audit Deadline: Friday, August 18, 2017
Withdrawal Deadline: Thursday, October 19, 2017

Financial Aid Deadlines: [http://www.spcollege.edu/central/SSFA/HomePage/calendar.htm](http://www.spcollege.edu/central/SSFA/HomePage/calendar.htm)
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<th>MAC 2313 - SCHEDULE</th>
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<td>10/9 Review Chapter 13</td>
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<tr>
<td>8/21</td>
<td>8/21 Sections 11.4-.11.6</td>
<td>10/16 Sections 14.1-14.4</td>
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<td>8/28</td>
<td>8/28 Sections 11.7 Review Chapter 11</td>
<td>10/23 Sections 14.5-14.8</td>
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<td>9/4</td>
<td><strong>TEST 1 — Chapter 11</strong> Sections 12.1-12.3</td>
<td>10/30 Review Chapter 14</td>
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<td>9/11</td>
<td>9/11 Section 12.4-12.5 Review Chapter 12</td>
<td><strong>TEST 4 — Chapter 14</strong></td>
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<tr>
<td>9/18</td>
<td><strong>TEST 2 — Chapter 12</strong> Sections 13.1-13.2</td>
<td>11/6 Sections 15.1-15.4</td>
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<td>9/25</td>
<td>Sections 13.3-13.6</td>
<td>11/13 Sections 15.5-15.6</td>
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<td>10/2</td>
<td>Sections 13.7-13.10</td>
<td>11/20 Sections 15.7-15.8 Review Chapter 15</td>
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<td>11/27 Review Course</td>
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<td></td>
<td>12/4 Final Exam Week</td>
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<td>12/4 Final Exam Week</td>
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