

MAC 2312 – CALCULUS WITH ANALYTIC GEOMETRY
SUMMER 2012

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Link to Instructor Page: http://it.spcollege.edu/course_info/inquiry.cfm?number=440			

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Textbook *Calculus with enhanced WebAssign*, 9^h Edition, Larson/Edwards (ISBN-13: 0538780819)
or
Calculus, 9^h Edition, Larson/Edwards (ISBN-13: 978-0-547-16702-2) Stand alone text or
Calculus eText, 9^h Edition, Larson/Edwards (ISBN-13: 978-14390-2472-0)
and
WebAssign Homework Printed Access Card for Multi Term Math, 1st Edition, Brooks/Cole
ISBN-10: 0-538-738073

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

WEBASSIGN Class Key: `spcollege 8913 7878`

COURSE PREREQUISITE

MAC 2311 or satisfactory score on the Mathematics Placement Test.

COURSE DESCRIPTION

This course is designed to follow Calculus with Analytic Geometry I. Topics include inverse trigonometric functions, hyperbolic and inverse hyperbolic functions, areas, volumes, centroids, work, fluid pressure, length of arc, trigonometric integrals, integration techniques, polar coordinates, indeterminate forms, improper integrals, infinite series, plane curves, parametric equations and conic sections. (Credit is not also given for MAC 2234.) 77 contact hours.

Since this course has 77 contact hours, that means the time needed to review the material, watch the videos and look at examples should require about that many hours in order to gain understanding of the material. Then you will need at least twice that long to practice the material and do the necessary assignment, quizzes and tests. That means that your commitment for the course will be about 240 hours. Therefore it will be necessary to spend at least that amount of time to have success in this course.

MAJOR LEARNING OBJECTIVES

1. The student will differentiate and integrate inverse trigonometric functions and ~~of~~ the hyperbolic and inverse hyperbolic functions.
2. The student will analyze and apply problems using applications of the definite integral.
3. The student will distinguish and apply various techniques of integration.
4. The student will select and test infinite series for convergence or divergence.
5. The student will evaluate the indeterminate forms, improper integrals and Taylor's formula.
6. The student will analyze and use polar coordinates, plane curves, parametric equations and conic sections.

The complete Approved Course Outline for this course is given at
http://www.spcollege.edu/clw/math_science/courses/MAC2312.htm

ATTENDANCE:

The College-wide attendance policy can be found at <http://www.spcollege.edu/wedcemtra/policies.htm>. This 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 the following defines attendance: *Login to this course at least three times per week, participate on WEBASSIGN at least 3 times a week, check your Course Mail at least three times per week, and email me as required.*

TESTING:

Tests will be given at the conclusion of each unit. No drop tests will be allowed; each test must be completed on time. Check the calendar for date when each test will be available and date when each test is due. Late work will result in a deduction from the grade. The test with all the work must be filed electronically by the due date.

The Mid-Term and Final exams must be taken with a proctor. To begin the process for a designated proctor, go to this site: <http://www.spcollege.edu/ecampus/cyberadvisor/testing.htm>

QUIZZES: Students will have a quizzes throughout the course. Problems are listed on the assignment sheets and the due dates are listed on the calendar. **All work** must be shown for credit.

ASSIGNMENTS: Assignments will be given for each section, assigned through WEBASSIGN. Students are responsible for performing all problems assigned thoroughly and preparing themselves for tests and quizzes. It is your responsibility to work on these assignments. Webassign will generate a grade, but I am looking for participation. This is equivalent to class attendance in a face-to-face class. I expect you to be on Webassign at least 3 times a week. Four times during the semester – dates are on the calendar, you will receive a homework grade. At least 75% of the assigned problems must be done to receive 50 points (less problems dues will reduce the amount proportionally). This will be the participation grade.

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

90 - 100	A		Tests	=	50%
80 - 89	B		Midterm	=	10%
70 - 79	C	(APPROXIMATE	Quiz Grade	=	20%
60 - 69	D		Final Exam	=	10%
Below 60	F	VALUES)	Participation	=	10%
			TOTAL	=	100%

EXTRA HELP: I am available in my office during times posted online. I will be available during those time to correspond through ANGEL. I will answer emails as quickly as I can. I will also be available at listed time to chat through ANGEL. For any extra help besides listed hours, please make arrangements with me.. 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 ANGEL for your convenience. Log in to ANGEL 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.

STUDENT SURVEY OF INSTRUCTION:

The student survey of instruction is administered in courses each semester. It is designed to improve the quality of instruction at St. Petersburg College. All student responses are confidential and anonymous and will be used solely for the purpose of performance improvement.

LIBRARY SERVICES

There are libraries at various SPC sites. You may choose the one that is most convenient for you. You also can access library services online at <http://www.spcollege.edu/central/libonline/>

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.

Student Participation Expectations and Instructor Response Time

To successfully participate in this course, you are expected to:

- Review the syllabus and other course outline materials—pace of the course and basic assignments are included. The Calendar in Angel gives all dates and pacing of the course.
- You must become familiar with WEBASSIGN and complete the assignment listed there
- Ask questions if you need clarification or assistance, and notify me if you are having any difficulties completing course work.
- Submit all assignments on or before the deadline. Late work will only be accepted with documented illness or other family emergency.
- Login to this course at least three times per week.
- Check your Course Mail at least three times per week.
- Complete the "Student Survey of Instruction."
- Complete all test and quizzes.

As your instructor, I will:

- Log into this course throughout the semester at least three times a week, from the first day of the term through the last day of the term,
- Respond to all Course Mail and voice mail messages within 24 hours Monday through Thursday.
- Notify you in advance if I will be out of contact for more than two days.
- Have your assignments and exams graded within 3 days of its due date.
- Provide you with weekly updates via Course Mail.
- Calculate and enter your grade for this course before the submission deadline so you can view your final grade via your MySPC area the next day.
- The goal is for you to have success in this class, so please feel free to contact me via email at any time.