

Syllabus

Please read the syllabus carefully. It is not only a contract between a teacher and student, but it is also a map to help you navigate through this course.

Course Information

Course: Math 253

Section: AD

CRN: 95613

Fall 2018

Class Information

Term Dates: Wednesday, Aug. 16 to Monday, Dec. 17.

Instructor Information

Gary Church

churchg@smccd.edu

Bldg 15, Rm 128

(650) 574-6621

Office Hours

9:00 - 10:00 daily

12:00 - 1:30 daily

Important Dates:

- Last day to add or drop with possible class refund: Tuesday, August 28.
- Last day to drop with no mention of the course on your transcript: Monday, Sept 3.
- Last day to drop with a guaranteed "W" grade: Wednesday, Nov 14.
No "W" grades will be given after this date! Please bring me a drop slip if you decide to drop the class.
- Final Exam: Wednesday, Dec. 12 from 11:10 to 1:40.

Course Description

General Description

Study of the calculus of functions of several independent variables, partial derivatives, vectors and vector calculus to include Greens theorem, Stokes theorem, and the divergence theorem. Extra supplies may be required. Prerequisite: Satisfactory completion of MATH 252 and other measures as appropriate.

Recommended preparation: Eligibility for READ 400 or an equivalent level of reading proficiency. (AA: Area C1/Area E2c, CSU: Area B4, UC: Area 2A*)


Student Learning Outcomes

Upon completion of the course, a student should be able to:

- Compute limits of functions of several variables, or show that the limits do not exist.
- Compute partial derivatives and directional derivatives.
- Solve extremum problems using:
 - partial derivatives
 - Lagrange multipliers
- Set up and evaluate multiple integrals, and use them in geometric and physical applications.
- Compute dot and cross products of vectors; use them to find equations of lines and planes in \mathbf{R}^3
- Compute line and surface integrals.
- Use cylindrical and spherical coordinates, and parametric equations, to study functions of several variables and surfaces.
- Compute and apply the gradient of scalar functions, and the divergence and curl of vector fields.

Textbook

The texts I'll be using for the course are:

- **Single and Multivariable Calculus**
(<https://smccd.instructure.com/courses/18164/files/1279146/download?wrap=1>) 
(<https://smccd.instructure.com/courses/18164/files/1279146/download?wrap=1>) by Guichard (main text)
- **Vector Calculus** (<https://smccd.instructure.com/courses/18164/files/1279145/download?wrap=1>) 
(<https://smccd.instructure.com/courses/18164/files/1279145/download?wrap=1>), by Corral
(supplement), and
- **Calculus** (<https://smccd.instructure.com/courses/18164/files/1279144/download?wrap=1>) 
(<https://smccd.instructure.com/courses/18164/files/1279144/download?wrap=1>), by Gilbert Strang

(supplement)

If you would like a printed and bound copy of one (or more) of these texts the "[Campus Copy & Post Service](http://collegeofsanmateo.edu/copy/printservices.asp)" (<http://collegeofsanmateo.edu/copy/printservices.asp>) at CSM can do it for a fair price. They already have the files on hand, so just tell them the author of the text that you want printed and that its for Church's math 253 class.

Math Resource Center (MRC)

If you need tutorial help and I'm not available, you can get help from the tutors in the Math Resource Center (MRC). More information about the MRC can be found at <http://collegeofsanmateo.edu/mrc/> (<http://collegeofsanmateo.edu/mrc/>)

Homework

Homework will be done online from within Canvas using WebWork. You will find the homework assignments under the "Assignments" section of our Canvas course page. Due dates for homework assignments will be marked on the Canvas calendar and scores for your homework assignments will be recorded in the Canvas gradebook (but it may take some time for them to get updated from the WebWork server.)

Quizzes/Assignments

There will be a number of quizzes and assignments throughout the semester. Quizzes are short evaluations done during class time consisting of one or two problems and taking about 15 to 20 minutes to complete. Assignments will consist of problems from the text or produced by me and you will have from a day to a week to complete them depending on the nature of the assignment.

Exams

There will be four to six exams throughout the semester. The exams will structured around the chapters we cover in the text. You will have the whole class period to complete each exam.

Announcements

Announcements will be posted in CANVAS. They will appear on your CANVAS dashboard when you log in and/or will be sent to you directly through your [preferred method of notification](#) (<https://guides.instructure.com/m/4212/l/73162-how-do-i-set-my-notification-preferences>) from CANVAS. Please make certain to check them regularly, as they might contain useful information.

Questions

If you have questions about things that relate to the course, such as clarification about assignments, course materials, or assessments. Please post these in the [QUESTIONS FORUM](#) (https://smccd.instructure.com/courses/18164/discussion_topics/103589) which you can access by clicking the DISCUSSIONS button in the course navigation links. This is an open forum, and you are encouraged to help each other.

Netiquette

When posting on the discussion boards and chat rooms it is important to understand how to interact with one another online, netiquette. You can read more about the [core rules of netiquette](#) (<http://www.albion.com/netiquette/corerules.html>).

Course Participation

Participation is essential to your success in this class. You are expected to attend lectures, point out any errors I might make during a lecture, ask questions if you are confused or need clarification on a topic, complete the homework assignments by their due dates, get help from me during my office hours or from a tutor in the Math Resource Center when needed and contribute to discussions in the class forum.

Grading

Your grade will be based on homework, quizzes and assignments, tests and a comprehensive final exam. Your scores on these categories will contribute to your semester grade according to the following weights.

- Homework: 15%
- Quizzes & Assignments: 15%

- Tests: 50%
- Final Exam: 20%

The final letter grade is calculated as a percentage of the weighted scores based on the ranges:

A: 100 — 90 B: 89 — 80 C: 79 — 70 D: 69 — 60 F: 59 — 0

A grade of "I" (incomplete) will be given only in case of an emergency situation.

Your semester grade is based on the work you produce during the semester; It is not based on my feelings towards you, my assessment of your abilities or your own assessment of your abilities. Once your semester grade is calculated, based on the above criteria, there is no further discussion to be had and there is nothing more you can do to improve your grade.

Course Policies

Drop

All courses currently follow the College of San Mateo's [Attendance Regulations](http://collegeofsanmateo.edu/academicpolicies/attendanceregulations.asp) (<http://collegeofsanmateo.edu/academicpolicies/attendanceregulations.asp>). In order to avoid getting an F for the course, **it is your responsibility to officially withdraw from the class prior to the deadline.**

Academic Honesty/Student Conduct

As a student at CSM, you are expected to follow the [San Mateo County Community College District Board Policy 7.69.1 for Standards of Student Conduct, Prohibited Actions and Disciplinary Procedures](https://smccd-public.sharepoint.com/BoardProcedures/7_69.1.pdf) (https://smccd-public.sharepoint.com/BoardProcedures/7_69.1.pdf) and College of San Mateo's [Guidelines Addressing Cheating and Plagiarism](http://collegeofsanmateo.edu/academicpolicies/cheatingandplagiarism.asp) (<http://collegeofsanmateo.edu/academicpolicies/cheatingandplagiarism.asp>). This means that you should not:

- Cheat
- Plagiarize, that is, use another person's words or ideas as your own without proper citation.
- Let another student login to your CANVAS account.

Failure to follow this policy will result in disciplinary action which can affect your academic standing in the College.

Disability Resource Center (DRC)

(<http://collegeofsanmateo.edu/dsps/index.asp>)

If you have a documented disability and need accommodations for this class, please see me as soon as possible or contact the **Disability Resource Center (DRC)**

(<http://collegeofsanmateo.edu/dsps/index.asp>) for assistance. **The DRC**

(<http://collegeofsanmateo.edu/dsps/index.asp>) is located in the College Center (Bldg. 10) Room 120. (650) 574-6438; FAX (650) 574-6434

- Confidentiality. Students with disabilities are protected under Family Education Rights and Privacy Act (FERPA). Please understand confidentiality and do not identify the person or their disability information to other students.
- Taping Lecture. Students who are unable to take or read notes have the right to tape record class lectures only for their personal study.
- Documentation. Students must provide documentation before they are entitled to accommodations. If you have any questions, please feel free to contact me or Audra Fernandez at (650) 574-6438; **fernandeza@smccd.edu** (**<mailto:fernandeza@smccd.edu>**)

Sexual Misconduct, Harassment, Assault and Title IX

We are concerned about our students and are committed to maintaining safe and caring college environment. Learn more at **smccd.edu/titleix** **(<http://smccd.edu/titleix/>)**.

Sexual Assault Policy

It is the policy of the San Mateo Country Community College District to educate all students, faculty, and staff on the prevention of sexual assault. The District and Colleges will provide information to all faculty, staff, and registered students on the definition of sexual assault, how to prevent it, and how to report it if assaulted.

"Sexual assault" includes but is not limited to rape, forced sodomy, forced oral copulation, rape by foreign object, sexual battery, or threat of sexual assault.

Any sexual assault or physical abuse, including, but not limited to, rape, as defined by California law, whether committed by a student, faculty, staff, administrator, visitor, or invitee of College of San Mateo, occurring on College property, or an off-campus site or facility maintained by the College, or on grounds or facilities maintained by a student organization, is a violation of College policies and regulations, and is subject to all applicable punishment, including criminal procedures and employee or student discipline procedures.

Information and literature is available in the office of the Vice President, Student Services, the Health Center and the Security Office.

The SMCCCD Board of Trustees has established policies concerning sexual assault.

These policies are indicated below:

- **[Board Policy 2.29: Sexual Assault Education, Prevention and Reporting](https://smccd-public.sharepoint.com/BoardPoliciesandProcedures/2_29.pdf)** [_ \(https://smccd-public.sharepoint.com/BoardPoliciesandProcedures/2_29.pdf\)](https://smccd-public.sharepoint.com/BoardPoliciesandProcedures/2_29.pdf)
- **[Administrative Procedure 2.29.1: Sexual Assaults on Campus](https://smccd-public.sharepoint.com/BoardProcedures/2_29.1.pdf)** [_ \(https://smccd-public.sharepoint.com/BoardProcedures/2_29.1.pdf\)](https://smccd-public.sharepoint.com/BoardProcedures/2_29.1.pdf)

Any faculty, staff member, or student who has been sexually assaulted should immediately contact the Health Center, 574-6396, or the Security Office, 574-6415.

Sexual Harassment Policy

It is the policy of the San Mateo County Community College District and the College of San Mateo to provide an educational and work environment free from unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct or communications constituting sexual harassment. The District promotes zero tolerance for behaviors which constitute sexual harassment in its educational and workplace environment for both employees and non-employees.

This policy defines sexual harassment and sets forth a procedure for the investigation and resolution of complaints of sexual harassment by or against any faculty member, staff member, Board member or student within the District. Sexual harassment violates State and Federal laws, as well as this policy, and will not be tolerated. It is also illegal to retaliate against any individual for filing a complaint of sexual harassment or for participating in a sexual harassment investigation. Retaliation constitutes a violation of this policy.

It is the responsibility of each District employee and student to maintain a level of conduct that is in compliance with District policy. Employees who violate this policy may be subject to disciplinary action up to and including termination. Students who violate this policy may be subject to disciplinary measures up to and including expulsion.

The District provides both informal and formal complaint resolution procedures; considers as serious matters all complaints of sexual harassment; is committed to full investigation and resolution; and takes steps to ensure that persons complaining of sexual harassment will not be subjected to retaliation or reprisals of any kind.

Students or staff seeking further information concerning this policy or claiming grievance because of alleged violations of this policy should contact the Vice-Chancellor of Human Resources and Employee Relations, 358-6767.

Additional Redress

In addition to and concurrently with the filing of a written grievance, a student has a right to file a complaint or charges with other appropriate governmental agencies such as Equal Employment Opportunity Commission, the Office for Civil Rights, the Department of Fair Employment and Housing, the Chancellor's Office of the California Community Colleges, or state or federal court.

The SMCCCD Board of Trustees has established policies concerning sexual harassment.

These policies are indicated below:

- **Board Policy 2.25: Prohibition of Harassment** [_\(https://smccd-public.sharepoint.com/BoardPoliciesandProcedures/2_25.pdf\)](https://smccd-public.sharepoint.com/BoardPoliciesandProcedures/2_25.pdf)
- **Administrative Procedure 2.25.1 Prohibition of Harassment** [_\(https://smccd-public.sharepoint.com/BoardProcedures/2_25.1.pdf\)](https://smccd-public.sharepoint.com/BoardProcedures/2_25.1.pdf)

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