Instructor: Slobodan Simić
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Course web page: http://www.math.sjsu.edu/~simic/Spring10/Math113/113.html


Other recommended books: (not required) Manfredo do Carmo: Differential Geometry of Curves and Surfaces, Prentice-Hall, 1976

Prerequisite: Math 32 and Math 129A (with a grade of ”C–” or better in each) or instructor consent.

Office hours: Mondays and Wednesdays 2–4, and by appointment

Homework: There will be weekly homework assignments. Late homework policy is: one class late – 50% penalty, two classes late – 75% penalty, three classes late – no credit.

Tests: There will be two midterms and a take-home final exam. The exam schedule is:

Midterm 1: February 24, 2010
Midterm 2: April 21, 2010
Final exam: May 17–24, 2010

There will be no make-up exams.

Grading policy: Homework 20%, Midterms 40%, Final 40%

Course objectives: We will study the geometry of curves and surfaces in the small by means of differential calculus. The main objects of study will be arclength, area, and curvature of curves and surfaces in 3-space.

We will attempt to cover the most important results from Pressley, including the Frenet-Serret equations, the isoperimetric inequality in the plane, main results about curvature, Gauss’s Theorema Egregium, and the Gauss-Bonnet theorem.

Participation: During class please feel free to stop me at any time and ask questions. I encourage and greatly appreciate students’ participation. I will add up to five extra points for participation to your final grade.
Feedback: I appreciate constructive feedback which you can give me via the anonymous feedback form on the class web page, by email, or in person.

Academic integrity: From the Office of Student Conduct and Ethical Development: Your own commitment to learning, as evidenced by your enrollment at San José State University, and the University’s Academic Integrity Policy, require you to be honest in all your academic course work. Faculty are required to report all infractions to the Office of Student Conduct and Ethical Development. The policy on academic integrity can be found at http://sa.sjsu.edu/student_conduct.

Campus policy in compliance with the Americans with Disabilities Act: If you need course adaptations or accommodations because of a disability, or if you need special arrangements in case the building must be evacuated, please make an appointment with your instructors as soon as possible, or see them during office hours. Presidential Directive 97-03 requires that students with disabilities register with DRC to establish a record of their disability.

Class attendance: According to University policy F69-24, Students should attend all meetings of their classes, not only because they are responsible for material discussed therein, but because active participation is frequently essential to insure maximum benefit for all members of the class. Attendance per se shall not be used as a criterion for grading.

Furloughs: This year across this campus and around the CSU system some class days will be cancelled because of furloughs. A furlough is mandatory unpaid time off; faculty and staff on each CSU campus are being “furloughed” two days per month. It is important to recognize that these days off are not holidays. Instead, they are concrete examples of how massive state budget cuts have consequences for you as students and for me as a faculty member.

The CSU has suffered chronic underfunding for at least 10 years. This year the budget cuts are the worst in the history of our university system – 584 million dollars or 20% of our budget.

The CSU administration is attempting to deal with these cuts with huge increases in your student fees (32%), eliminations of your classes, and lay-offs of faculty and other university employees.

In addition to paying higher fees, you will be affected by reduced services and classes. The library will have shorter hours. Many campus support services will be decreased or eliminated. It will be more difficult to get signatures to meet deadlines. Classes you need may have been cut from the class schedule or are full.

If you would like to take action, or simply learn more, I strongly recommend you contact the California Faculty Association on campus.

The furlough days for this class will be announced on the first day of class (also check the class web site).

For more details, see the course web page.