Instructor: Slobodan Simić
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Email: simic@math.sjsu.edu (best way to contact me)

Course web page: http://www.math.sjsu.edu/~simic/Fall12/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: Tu and Th 10:30–12 (in the office), by appointment, and almost any time on Piazza (see below).

Homework: There will be weekly homework assignments. You may collaborate with others in solving homework problems, but you must write up your solutions independently, without copying from notes taken in group work.

My 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 final exam, all take-home. The exam schedule is:

Midterm 1: September 27, 2012
Midterm 2: November 1, 2012
Final exam: December 11–18, 2012 (tentative)

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.

Piazza: For most out of class Q&A we will be using Piazza (https://piazza.com). Piazza is a free online gathering place where students can ask, answer, and explore 24/7, under the guidance of their instructors. On the class dashboard, students can post questions and collaborate Wikipedia-style to edit responses to these questions. I as an instructor can also answer questions, endorse student answers, and edit or delete any posted content. Each student will be invited to join Piazza by email. Please join it as soon as you can, as I plan to use Piazza extensively.

For more details, see the course web page.