

**Mathematics for general education (Math 10), Spring 2004**  
**MacQuarrie Hall 233, MWF 12:30pm (Sec. 02, code 23691)**

**Instructor:** Dr. Tim Hsu (pronounced “shoe”).

**Office and phone:** MacQuarrie 419, (408)924-5071.

**Office hours:** MWF 11:30–12:30, MWF 1:30–2:30, or by appointment. For a current schedule, see: <http://www.math.sjsu.edu/~hsu/courses/generic/sched.pdf>

**E-mail:** [hsu@math.sjsu.edu](mailto:hsu@math.sjsu.edu). I can be reached by e-mail at most times of the day, and will often answer within a few hours.

**Course web page:** <http://www.math.sjsu.edu/~hsu/courses/10/>

**Required text:** *The Heart of Mathematics: An invitation to effective thinking*, Burger and Starbird, with “manipulative kit” (see below).

**Grading:** Your semester grade consists of:

Homework:	10%
Quizzes:	5%
Exam 1:	15%
Exams 2 & 3:	20% each
Final exam:	30%

**Goals of the class.** *What is mathematics?* If this course succeeds, you’ll have a different answer to that question at the end of this course than you had at the beginning. Along the way, you’ll encounter some of the great ideas of mathematics, unlock your mathematical creativity and imagination, and learn deep principles that will help you not only in math, but also in many other aspects of life.

**Text, toys, and calculator.** You are required to purchase *The Heart of Mathematics: An invitation to effective thinking*, Burger and Starbird. You will also need the “manipulative kit” (weird dice, 3-D glasses, etc.) that goes with the book, so if you buy a used copy of the book, you may need to buy the kit separately. It will also be helpful to have a calculator (essentially any calculator will do).

**Class is a cell/beeper-free zone.** Please turn off all cellphones and beepers before you get to class.

**Homework.** Homework will be due in every class, including quiz days, but not including exam days. You may do the homework alone or in teams of 2 or 3 people. For details, see the handout on homework.

Specific homework assignments will be given as the term progresses; for a complete list of all homework assigned to date, you can always check the course web page.

*Late homework will not be accepted*, unless 24 hours notice is given. To allow for personal problems (illness, etc.), your three lowest homework grades will be dropped.

Specific homework assignments will be determined as the term progresses. For a complete list of all reading and homework assigned to date, see the course web page.

**Quizzes.** Once a week, except for exam weeks, we will have an in-class quiz. Quizzes are closed-book, with no notes allowed, though calculators are fine. Make-up quizzes will not be given (unless 24 hours notice is given), but your lowest quiz grade will be dropped. The first quiz will be held **Fri Feb 06**.

**Exams.** The exam dates are scheduled in the syllabus below. Scheduling is tentative, except for the final exam, which is set in stone. Do *not* leave campus before the final, which will be held on **Wed May 26** from **12:15pm–2:30pm**. Please make sure that you are still on campus at that time. (Don’t buy a plane ticket that leaves town on May 25!)

**Exam policies.** All exams will be closed-book. Calculators are allowed, and you are also allowed to bring one  $3 \times 5$  card of notes. Exams are primarily based on the homework

and the reading, so the best way to prepare for exams is to do all of the homework and the reading.

**How to add this course.** If you are not registered for this class, and you would like to add it, you must first put a full effort into completing all of the work in the course. Second, if you are a graduating senior, you need to produce documentation to verify that. Remember: your best strategy for getting into *any* SJSU class is to pick the section you want and stick with it.

I'll make a waiting list, which you can get on by filling out the information form for the course. I'll give out add codes starting **Wed Feb 18**, mainly based on completeness of homework and quizzes, and as long as there is room, I will continue to give out add codes until add date (**Tue Feb 24**). Note, however, that graduating seniors have the highest priority, and that Open University students have the lowest priority.

**How to drop this course.** Until **Tue Feb 17**, you can drop by Touch-SJSU. Nothing will appear on your transcript. However, please tell me if you drop, so someone else can add the course.

To drop after Tue Feb 17, you must go to the student services center and submit a Course Drop form to the Director of Academic Services. Dropping under these circumstances is only allowed for "serious and compelling reasons" (course catalog). A low grade is not a serious and compelling reason.

#### Tentative syllabus

Date	Reading	Date	Reading
		Mon Mar 29	<b>SPRING</b>
		Wed Mar 31	<b>BREAK</b>
Fri Jan 30	Welcome, surfing	Fri Apr 02	<b>No classes</b>
Mon Feb 02	1.1–1.4	Mon Apr 05	4.7
Wed Feb 04	1.1–1.4	Wed Apr 07	4.7
Fri Feb 06	2.1	Fri Apr 09	4.7
Mon Feb 09	2.2	Mon Apr 12	7.1
Wed Feb 11	2.2	Wed Apr 14	7.2
Fri Feb 13	2.3	Fri Apr 17	7.2
Mon Feb 16	2.3 (drop date)	Mon Apr 19	7.3
Wed Feb 18	2.4	Wed Apr 21	7.3
Fri Feb 20	Review	Fri Apr 23	7.1–7.3
Mon Feb 23	<b>Exam 1</b> (add date)	Mon Apr 26	7.5
Wed Feb 25	2.6	Wed Apr 28	7.5
Fri Feb 27	2.6–2.7	Fri Apr 30	Review
Mon Mar 01	2.7	Mon May 03	<b>Exam 3</b>
Wed Mar 03	3.1	Wed May 05	5.1
Fri Mar 05	3.2	Fri May 07	5.1
Mon Mar 08	3.2	Mon May 10	5.2
Wed Mar 10	3.3	Wed May 12	5.2
Fri Mar 12	4.1	Fri May 14	5.3
Mon Mar 15	4.3	Mon May 17	5.3
Wed Mar 17	4.3		
Fri Mar 19	4.5		
Mon Mar 22	4.5	<b>Wed May 26</b>	<b>Final exam</b>
Wed Mar 24	Review		<b>12:15pm–2:30pm</b>
Fri Mar 26	<b>Exam 2</b>		