

## MAT 118, Stony Brook University, Fall 2010

### Times and places:

Lectures: MWF 9:35-10:30, Room 102 Light Engr Lab, Prof. C. Bishop

Recitation: R01 M 3:50-4:45 SB Union 226, Ki Song

Recitation: R02 W 3:50-4:45 SB Union 237, Fadi Elkhatib

Recitation: R03 Tu 9:50-10:45 SB Union 237, Sanja Nedic

Recitation: R04 Th 9:50-10:45 SB Union 237, Sanja Nedic

**Text:** *Excursions in Modern Mathematics*, by P. Tannenbaum, 7th edition, Prentice Hall.

**Tentative Schedule:** The table lists the sections we will cover in each lecture. Revisions may be made during the semester.

| WEEK | STARTING | MONDAY           | WEDNESDAY       | FRIDAY          |
|------|----------|------------------|-----------------|-----------------|
| 1    | Aug 30   | FIRST DAY        | 1.1, 1.2        | 1.3, 1.4        |
| 2    | Sept 6   | NO CLASS         | 1.5, 1.6        | NO CLASS        |
| 3    | Sept 13  | Chap 2 summary   | Chap 3 summary  | 4.1, 4.2        |
| 4    | Sept 20  | CHAP 4 EXAM      | 4.3, 4.4        | 4.5, 4.6        |
| 5    | Sept 27  | 5.1, 5.2         | 5.3, 5.4        | 5.5, 5.6        |
| 6    | Oct 4    | CHAP 4 EXAM      | 6.1, 6.2        | 6.3, 6.4        |
| 7    | Oct 11   | 6.5, 6.6         | 6.7, 6.8        | Chap 7 summary  |
| 8    | Oct 18   | CHAP 5 EXAM      | Chap 8 summary  | Chap 9 summary  |
| 9    | Oct 25   | CHAP 6 EXAM      | 10.1, 10.2      | 10.3, 10.4      |
| 10   | Nov 1    | 10.5, 10.6       | Chap 11 summary | Chap 12 summary |
| 11   | Nov 8    | CHAP 10 EXAM     | 14.1, 14.2      | 14.3, 14.4      |
| 12   | Nov 15   | 15.1, 15.2       | 15.3, 15.4      | 15.5, 15.6      |
| 13   | Nov 22   | CHAP 14 EXAM     | Chap 13 summary | NO CLASS        |
| 14   | Nov 29   | 16.1, 16.2       | 16.3, 16.4      | 16.5, 16.6      |
| 15   | Dec 6    | CHAP 15 EXAM     | 16.7            | LAST CLASS      |
| 16   | Dec13    | FINAL 11:15-1:45 |                 |                 |

### Important Dates:

Sept 5: last day to drop or withdraw without penalty

Sept 6: Labor Day, no class

Sept 10: Rosh Hashanah, no class

Oct 22: last day to drop down or move up in MAT classes

Oct 29: last day to P/NC

Nov 24-25: Thanksgiving break, no class

Dec 13: Final exam, 11:15-1:45.

**Grades:** There will be seven Chapter exams worth 25 points each. We will drop the lowest grade, so there will be 150 points due to the Chapter exams. There will be 50 points due to homework and a final worth 100 points. The exams will be multiple choice. The final will cover the whole course.

**Homework:** There will be problems assigned from each chapter which should be done and handed in to the teaching assistant (TA), either at recitation or at a time and place stated by the TA. Students receive one point for each correct, legible, timely solution. Some exam problems will be based on exercises in the text, so you may want to look at problems besides just those that have been assigned.

| Chapter | Topic                  | Homework problems        |
|---------|------------------------|--------------------------|
| 1       | Voting Methods         | 2, 4, 11, 19, 33, 37, 41 |
| 4       | Apportionment          | 2,6,12,24,34,44,54       |
| 5       | Euler Paths            | 3,7,10,23,25,33,45       |
| 6       | Traveling Salesman     | 1,10,16,29,33,45,65      |
| 10      | Compound Interest      | 9,14,24,37,44,51,63      |
| 14      | Descriptive Statistics | 1,2,3,4,23,33,57         |
| 15      | Probability            | 2,9,13,18,35,41,55       |

**Contact info (name: office, office hours, email):**

Prof. Bishop: 4-112 Math, MWF 10:40-11:30, [bishop@math.sunysb.edu](mailto:bishop@math.sunysb.edu)

Ki Song: 2-104 Math, M 2:40-3:30; MLC, M 11-12,5-6 [kiwisquash@math.sunysb.edu](mailto:kiwisquash@math.sunysb.edu)

Fadi Elkhatib: S240-C Math, M 12:50-2:10; MLC W 12:50-2:10 [felkhatib@math.sunyb.edu](mailto:felkhatib@math.sunyb.edu)

Sanja Nedic: Physics C-114, W 1:00-2:00, [sanja@math.sunysb.edu](mailto:sanja@math.sunysb.edu)

**Webpage:** <http://www.math.sunysb.edu/~bishop/classes/math118.F10/math118.html>

**DSS notice:** If you have a physical, psychological, medical, or learning disability that may impact your course work, please contact Disability Support Services at (631) 632-6748 or <http://studentaffairs.stonybrook.edu/dss/>. They will determine with you what accommodations are necessary and appropriate. All information and documentation is confidential.

Students who require assistance during emergency evacuation are encouraged to discuss their needs with their professors and Disability Support Services. For procedures and information go to the following website: <http://www.sunysb.edu/>

**Academic Integrity:** Each student must pursue his or her academic goals honestly and be personally accountable for all submitted work. Representing another person's work as your own is always wrong. Faculty are required to report any suspected instances of academic dishonesty to the Academic Judiciary. Faculty in the Health Sciences Center (School of Health Technology and Management, Nursing, Social Welfare, Dental Medicine) and School of Medicine are required to follow their school-specific procedures. For more comprehensive information on academic integrity, including categories of academic dishonesty, please refer to the academic judiciary website at <http://www.stonybrook.edu/uaa/academicjudiciary/>