

Lake Tahoe Community College
MAT 187A and Mat187B – Basic Arithmetic (Parts I and II)
M, W 6:00 – 7:50 pm HSST5
Winter 2003

Instructor: Janine Bouyssounouse

Advisory: Appropriate skills demonstrated through the math assessment process. Students must pass Mat187A with a C or better to continue to Mat187B.

Course Description: This course is divided into two parts. Part I covers general areas of arithmetic which include whole numbers, fractions, and an introduction to decimals. Part II covers general areas of arithmetic which include decimals, percents, and an introduction to algebra.

Student Outcomes

- 1) Exhibiting a proficiency in the topics covered in the course.
- 2) Engaging in logical and critical thinking.
- 3) Reading technical information.
- 4) Demonstrating the solution to problems by translating written language into Mathematical statements, interpreting information, sketching relevant diagrams, analyzing given information, formulating appropriate math statements, and checking and verifying results.

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Course Text: Basic College Mathematics by Tobey & Slater, Fourth Edition.

Grading Scale:

A	90-100%
B	80-89%
C	70-79%
D	60-69%
F	59% and below

Tests:	40%
Quizzes:	25%
Homework:	10%
Final:	25%

Tests: There will be at least 2 tests in each class, usually occurring on Wednesdays.

Quizzes: There will be at least 2 quizzes in each class, usually occurring on Wednesdays. *The lowest quiz grade will be dropped.*

Homework: Homework will be collected on the day of the quiz or test. **The last day to turn in homework for Mat 187A is Monday, February 9. The last day to turn in homework for Mat 187B is Monday, March 22.** No homework will be accepted on the day of the final. Completing homework before quizzes and tests will provide practice and may make tests and quizzes seem easier than if the homework was not completed before the quizzes or tests.

Final: There will be a comprehensive final exam for Mat 187A given on **Wednesday, February 11 at 6 pm.** There will be a comprehensive final exam for Mat 187B given on **Wednesday, March 24 at 6 pm.**

The **Gateway Math Center** has free tutoring for all registered students. Please Log In and Out so that the facility gets the funds it needs.

Calculators are not allowed for this class.

Attendance: Regular attendance in class is an obligation assumed by every student at the time of his/her registration. Students will still be responsible for the work missed because of their absence. Homework questions will be answered in class. This can be very helpful in understanding the material, as well as preparing for quizzes and tests. Please familiarize yourself with the sections to be covered in class before attending class.

Missed Tests/Quizzes: If a student is going to miss a quiz or test, the student is responsible for contacting the instructor before the quiz or test to make arrangements to take it another time.

Accommodations for Students with Disabilities: Students requiring accommodations for a certifiable disability should contact the instructor so arrangements can be made.

How to Succeed in a Math Class:

1. Come to every class meeting.
2. Arrive early, get yourself settled and be ready when class starts. Sit where you won't be distracted.
3. Read each section before it is discussed in class.
4. Do all of the homework.
5. Do some math every day.
6. Start preparing for tests at least a week in advance.
7. Take advantage of tutors and office hours, extra help can make a big difference.
8. Do some review every time you study math.

Tentative Schedule:

Date	Sections/Quizzes/Tests
Monday 1/5	First Day of Mat 187A , 1.1, 1.2, 1.3
Wednesday 1/7	1.4, 1.5
Monday 1/12	1.6, 1.7
Wednesday 1/14	1.8, 2.1 Quiz #1 (1.1-1.7), Homework Due (1.1-1.7)
Monday 1/19	Holiday – No Class
Wednesday 1/21	2.2, 2.3, Test #1 (1.1-2.1), Homework Due (1.7-2.1)

Date	Sections/Quizzes/Tests
Monday 1/26	2.4, 2.5, 2.6
Wednesday 1/28	2.7, 2.8, Quiz #2 (2.2-2.6), Homework Due (2.2-2.6)
Monday 2/2	2.9, 3.1
Wednesday 2/4	3.2, 3.3, Test #2 (2.2-3.1), Homework Due (2.7-3.1)
Monday 2/9	Review Study Guide, Last Homework Due Date for Mat 187A
Wednesday 2/11	Final Exam for Mat 187A (1.1-3.3, except sections not covered on syllabus)
Monday 2/16	Holiday – No Class
Wednesday 2/18	First Day of Mat 187B , 3.4, 3.5, 3.6
Monday 2/23	3.7, 4.1, 4.2
Wednesday 2/25	4.3, 5.1, Quiz #1 (3.4-4.2), Homework Due (3.4-4.2)
Monday 3/1	5.2, 5.3A, 5.4
Wednesday 3/3	5.5, 6.4, Test #1 (3.4-5.4), Homework Due (4.3-5.4)
Monday 3/8	7.5, 9.1, 9.2
Wednesday 3/10	9.3, 9.4, Quiz #2 (5.5-9.2), Homework Due (5.5-9.2)
Monday 3/15	10.1, 10.2, 10.3
Wednesday 3/17	10.4, 10.5, Test #2 (5.5-10.3), Homework Due (9.3-10.3)
Monday 3/22	Review Study Guide, Last Homework Due Date for Mat 187B
Wednesday 3/24	Final Exam for Mat 187B (3.4-10.5, except sections not covered on syllabus)

Tentative Assignments:

1.1	Understanding Whole Numbers	#1 – 57 every other odd
1.2	Addition of Whole Numbers	#1 – 57 every other odd
1.3	Subtraction of Whole Numbers	#1 – 57 every other odd
1.4	Multiplication of Whole Numbers	#1 – 89 every other odd
1.5	Division of Whole Numbers	#1 – 85 every other odd
1.6	Exponents & Order of Operations	#1 – 6 all, #10 – 105 multiples of 5
1.7	Rounding and Estimation	#1 – 4 all, #5 – 80 multiples of 5, #85 – 88 all
1.8	Applied Problems	#1 – 25 odd
2.1	Understanding Fractions	#1 – 5 all, #7 – 51 every other odd
2.2	Simplifying Fractions	#1 – 6 all, #7 – 91 every other odd
2.3	Improper Fractions & Mixed Numbers	#1 – 4 all, #5 – 79 every other odd
2.4	Multiplication of Fractions & Mixed Numbers	#1 – 15 odd, #17 – 57 every other odd
2.5	Division of Fractions & Mixed Numbers	#3 – 75 every other odd
2.6	The Least Common Denominator	#3 – 29 odd, #31 – 79 every other odd
2.7	Addition & Subtraction of Fractions	#1 – 69 every other odd
2.8	Combining Mixed Numbers & Order of Operations	#1 – 73 every other odd
2.9	Applied Problems involving Fractions	#1 – 29 odd, pg. 187 #1
3.1	Decimal Notation	#1 – 61 odd

3.2	Comparing, Ordering & Rounding Decimals	#1 – 25 odd, #29 – 69 every other odd
3.3	Addition & Subtraction of Decimals	#1 – 15 odd, #17 – 61 every other odd
3.4	Syllabus, Multiplication of Decimals	#1 – 53 odd
3.5	Division of Decimals	#1 – 31 odd, #33 – 53 every other odd
3.6	Converting Fractions to Decimals & Order of Operations	#1 – 5 all, #7 – 71 every other odd
3.7	Applied Problems Involving Decimals	#1 – 39 odd
4.1	Ratios	#5 – 37 every other odd
4.2	Proportion	#1 – 45 every other odd
4.3	Solving Proportions	#5 – 55 multiples of 5
5.1	Understanding Percent	#1 – 15 odd, #19 – 83 every other odd
5.2	Changing between percents, decimals and fractions	#1 – 19 odd, #23 – 91 every other odd
5.3 A	Solving percents using an equation	#1 – 21 odd, 23 – 41 every other odd
5.4	Solving applied percent problems	#1 – 41 every other odd
5.5	Solving commission, percent of increase or decrease, and interest problems	#1 – 33 every other odd
6.4	Converting units of measure	#1 - 25 every other odd, 39, 43
7.5	Square Roots	#1 – 5 all, #7 – 31 odd, Page 501 #27 – 31 all
9.1	Addition of signed numbers	#1 – 65 every other odd
9.2	Subtraction of signed numbers	#1 – 61 every other odd
9.3	Multiplication and Division of signed numbers	#1 – 57 every other odd
9.4	Order of Operations with signed numbers	#1 – 45 odd
10.1	Variables and Like terms	#1 – 37 odd
10.2	The distributive property	#1 – 37 every other odd
10.3	Solving equations using the addition property	#1 – 47 every other odd
10.4	Solving equations using the Division or Multiplication properties	#1 – 37 odd
10.5	Solving equations using two properties	#1 – 41 every other odd