Math 187AA / 187B, Basic Mathematics Extended

SYLLABUS

Class:
Math 187AA, Basic Mathematics Expanded   (9/21/09 – 10/28/09)
Math 187B, Basic Arithmetic (Part II)   (11/02/09 – 12/09/09)

Instructor: Laurel Brock

Class meets: Mondays and Wednesdays
187AA (6:00 pm – 8:25 pm)
187B (6:00 pm – 7:50 pm)

Room: LTCC, A206

Prerequisites: There are no requirements prior to being placed in this class. (187AA) …
You must pass 187AA with a "C" or better to continue on to 187B.

Course Description: The purpose of this course is to teach students the skills of basic arithmetic. In reality, you have probably already seen this material somewhere in your educational past but may have forgotten it or never really understood it when it was first presented. In this class, our goal is to fill in the gaps of your knowledge about arithmetic and to help you get the "big picture" so that it will all fit together in a way which makes sense to you and that you are able to apply it to "real life" problems.

You will actually be taking two six-week classes, each receiving its own grade:

- **Math 187AA** covers whole numbers, fractions, and an introduction to decimals.
    - **Expanded** version cover the content above and includes an additional study skills/counseling component to assist students in being successful in this math class and future ones.
- **Math 187B** covers decimals, percents, and an introduction to algebra.

Instructor's Contact Information:

Phone and Text: Monday – Friday (*8am – 5pm*): 530 - 307-9934

Email: lbrock@ltusd.org

Office Hours: TBA
Call for an appointment

Grades: www.sthsonline.com/grades

187AA - Student Learning Outcomes
1. Perform arithmetic operations with whole numbers, fractions, and decimals.
2. Translate written language into mathematical statements.
3. Apply the concepts in the course to real-life situations.

187B - Student Learning Outcomes
1. Solve problems involving decimals, percents and beginning algebra
2. Translate written statements in to mathematical statements.
3. Apply the topics of Basic Arithmetic (Part II) to real life situations.

Methods of Assessing Student Learning Outcomes
1. Homework
2. Quizzes
3. Chapter exams
4. Final exam
5. Projects
6. Presentations
7. Paper
8. Journal
9. Pre/post tests
10. Self-assessment

Items you need for class:
in addition to the book:

Textbook: "Basic College Mathematics", 5th Edition, Tobey & Slater.
*CALCULATORS ARE NOT ALLOWED IN MATH 187A or 187B

- **Lined paper for note-taking**
- **Graph paper for the sections on graphing**
- **Pencil and extra eraser**
- **A six-inch straight edge**
- **Several different colors of pencils**
  (will help you in making your graphs easier to read)
- **A yellow or light green highlighter**
  (may be helpful in notating handouts, your text, or your class notes)

GENERAL INFORMATION

1) <u>Getting registered</u>: With <u>WEBREG</u>, Students may enroll ONLINE up until 11:00 PM <u>on the first day that class meets</u>. After that, you'll need a permit from A&R with the instructor's signature, in order to enroll.

2) <u>My make-up policy</u>: There is no makeup for quizzes. You may make up one exam, with a 10% penalty. If you can't take an exam with the class, <u>you must call me before the exam</u>. I'll arrange for the makeup test, which you'll be required to complete <u>before</u> the following class meeting. If you miss a test on a Thursday for example you'll have to complete the test <u>before class begins</u> the following Tuesday. I accept two late homework assignments. If you are unable to get to class, you may have a friend bring in your homework, or you can turn it in through the student mail slot outside the college mail room. STUDENTS ARE NOT PERMITTED INSIDE THE MAILROOM.

3) I allow extra credit under the following conditions: The student <u>has missed no more than one lecture</u>, is current on the homework, and your grade is below 'C'.

5) Learning disabled students: If you have a certified learning disability that may affect your performance in the class, please see me so that I can make sure that your needs are met. If you think that you may have a disability but have not yet been tested, you may inquire about this at the DRC, or at extension 249.

GRADING POLICY

During each part of Math 187AA and 187B, you'll take two exams, three quizzes and a cumulative final exam. You'll also complete eight homework assignments (online or in class). If you are still enrolled on 10/28/09, you'll receive a letter grade (A-F) for Math 187AA. Your final course grade for the class will be structured according to the following:

8 homework assignments (10 pts ea)	80 points
3 quizzes (20 points)	60 points
3 sample tests (Extra Credit)	
2 midterms, (100 pts each)	200 points
Final exam	<u>200 points</u>
	540 points total

90-100% = A		80-89% = B	
70-79% = C		60-69% = D	

Below 300 points, or students who drop out but don't withdraw at A&R: F

Please note: The above grades are what is appropriate for someone earning those percentage scores. However, your attendance and participation, your courtesy to others and your attitude in general will also play a part in your grade. A student who ends up between two grades at the end of the class (this is quite common) can ensure the higher grade with positive attendance and respectful behaviour. Students who disrupt the class with noise and tardiness, or who pose other types of behaviour problems can expect to be issued the lower grade, when say, a B or a C would be equally fair, or a C versus a D.

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QUIZZES are scheduled on the syllabus and given in class only. There will be no make-ups for quizzes. Additional quizzes may be offered for extra credit. They will be announced in the lecture prior to the day given in class.

The grade of 'F' is usually reserved for students who drop out without informing A & R. At any time during the quarter, you can calculate what your percentage is.

Be aware that with only four letters at the instructor's disposal, it's quite common for students to end up midway between two letter grades at the end of the class. Your behaviour and your participation in class are likely to play a part in your final course grade. Be here. Be courteous and respectful of those around you. Students who behave in positive ways will get the higher grade.

ATTENDANCE: Students are allowed two absences with no explanation required. If you need to miss a class, please see me so that I know you aren't dropping. Also, make a friend in class who can tell you what you missed, and share notes with you.

HOMEWORK: Homework will be offered online at MyMathLab.com. You may turn in your homework online or BEFORE class begins. I will accept two late homework assignments. If you have to miss a lecture, you may drop your homework through the student mail slot on the due date, or have a friend bring it to class.

ACADEMIC DISHONESTY (CHEATING):

Cheating will be defined as but not limited to: (1) using any method to copy another's work on an exam, quiz, or final (2) directly copying another student's homework assignment (3) allowing someone else to complete your work (4) using any method other than your own honest efforts to complete exams, quizzes, the final, or homework assignments.

The following activities are NOT cheating: (1) collaborating with other students to complete homework assignments (2) working with math tutors or academic coaches to complete homework assignments (3) working with other students to study for exams, quizzes or the final.

Disciplinary actions for cheating in this class: Cheating will result in a grade of zero on the item on which the cheating occurred. The worst thing about cheating, however, is compromising your character for such a small reward.

Habits that contribute to ACADEMIC SUCCESS:

1) Attend every lecture if you possibly can. Sit where you know you won't be distracted, and where you can see and hear what's going on in class.

2) Take notes, working along in class and keeping a glossary of unfamiliar terms.

3) Do all assigned reading **_before class_**, so that you can bring up points in class that you found confusing. Work the example problems as part of your reading.

4) Do all of the assigned homework, even problems you are not able to finish. Staple each assignment separately. Please, no paper clips.

5) Ask questions in class. Stay focused on math. Please limit your conversation in class to the topics being covered, and save your socializing for outside of class.

LAUREL'S COMMITTMENT
to the class

- I am very excited about being here to teach you. I care as much as you do about your comfort, well-being and accomplishments in our class. All that I do is designed to help you achieve success in math.

- I will maintain, at all times, a respectful and learning-friendly environment for my students. Your input is encouraged and appreciated, when the topic is math. In particular, consistent tardiness, chit-chatting, cell phones and headphones are all discouraged. <u>If your phone disrupts our class, you will be asked to leave, and you'll be marked absent for that period.</u>

- I will never embarrass or humiliate you. Period. You'll receive a courteous and respectful answer to any math question you wish to ask me. If you feel awkward about bringing something up that was covered previously, ask anyway. If we need to spend more time than we can take at the moment, we'll agree to meet later.

- I will be on time, prepared and organized when I get to class. The earlier part of my day will be checked at the door. I will give 100% of my attention to the class.

- I will not short-change you by setting low standards. Earning a 'C' or better in this class means you leave here with the necessary level of competency for success in your next math class. Students who don't need additional math classes will leave with the benefits of an improved understanding and mastery of algebra skills and topics, and a stronger confidence in mathematics than they'd known previously.

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SCHEDULE OF CLASS TOPICS AND HOMEWORK
Math 187AA and 187B, Instructor: Laurel Brock, Fall 2009

Homework will be offered online at MyMathLab.com OR can be handed in before class begins. Homework is due before each class. Tests will be offered online

If you do not have a computer, arrangements will be made for you to take your tests in the Math Success Center. You will need to make arrangements prior to the day of the exam.

MyMathLab Course Code

187AA: brock38352   187B: brock52395

PLEASE NOTE: YOU MUST BE CURRENT IN YOUR HOMEWORK ASSIGNMENTS IN ORDER TO TAKE THE EXAMS IN MATH 187AA and 187B. YOU MUST COMPLETE HW # 1-4, IN ORDER TO TAKE EXAM #1.

Week 1: Sept 21 - 23

Monday, 9/21: Welcome to Math 187AA, review syllabus & grading policy. Cover Sections 1.1-1.3. Understanding whole numbers, addition and subtraction. *homework*

Wednesday, 9/23: Cover 1.4, Multiplication of whole numbers, 1.5 Division of whole numbers. 1.6, Exponents and Order of Operations. *homework*

Week 2: Sept 28 - 30

Monday, 9/28:   Cover 1.7 Rounding and Estimation, 1.8 Applied Problems. **Quiz #1** *homework*

Wednesday, 9/30: **Exam #1 on all of Chapter 1**. No written homework is assigned after an exam.

Week 3: October 5 - 7

Monday, 10/5: Cover 2.1 Understanding fractions, Begin 2.2 Simplifying fractions.. *homework*

Wednesday, 10/7: Cover 2.3 Improper fractions and mixed numbers, 2.4 Multiplication of fractions and mixed numbers.   *homework*

Week 4: October 12 -14

Monday, 10/12: Cover 2.5, Division of fractions and mixed numbers, 2.6 The Least Common Denominator, 2.7 Addition & Subtraction of Fractions *homework*

Wednesday, 10/14:   Cover 2.8 Combining Mixed Numbers, Order of Operations, 2.9 Applied problems involving fractions. Review for Exam #2 covering 2.1-2.9. **Quiz #2** *homework*

Week 5: October 19 -21

Monday, 10/19: **Exam #2 Covering 2.1-2.9.** No written homework.

Wednesday, 10/21: Cover 3.1, Decimal notation, 3.2 Comparing, Ordering and Rounding Decimals.   Cover 3.3 Addition & Subtraction of Decimals, 3.4 Multiplication of Decimals. *homework*

Week 6: October 26 - 28

Monday, 10/26: **Quiz #3.** Review for final exam.

Wednesday, 10/28: **Cumulative Final exam** including all sections covered in Math 187AA. Congratulations on your successful completion of Math 187AA! I hope to see you in Math 187B on Monday. (**Make sure your are registered for 187B**)

MAT 187B

Week 1: November 2 - 4

Monday, 11/2:   Welcome to Math 187B, review syllabus & grading policy. Cover 3.5, Division of Decimals. 3.6 Converting Fraction to Decimals & Order of Operations, 3.7 Applied Problems Involving Decimals.

Wednesday, 11/4:   Cover 4.1 Ratios, 4.2 Proportions, 4.3 Solving Proportions

Week 2: November 9 -11

Monday, 11/9: 5.1 Understanding percent, 5.2 Changing between percents, decimals and fractions, 5.3 Solving percents using a proportion,

Wednesday, 11/11:   Cover 5.4 Solving applied percent problems.   5.5 Solving commission, percent of increase or decrease, and interest problems. Review for Exam #1 covering 3.5 – 3.7, 4.2 – 4.3, and 5.1 – 5.5.   **QUIZ #1**

Week 3: November 16 - 18

Monday, 11/16:   **Exam #1** Covering 3.5 – 3.7, 4.2-4.3, 5.1 – 5.5.

Wednesday, 11/18:   Cover 9.1 Signed numbers, 9.2 Subtraction of signed numbers, 9.3 Multiplication and Division of signed numbers, 9.4 Order of Operations with Signed Numbers.

Week 4: November 23 - 25

Monday, 11/23:   Cover 6.4 Converting units of measure, 7.5 Addition of Square Roots, Review for Exam #2 covering 6.4, 7.5, 9.1 – 9.4. **QUIZ #2**

Wednesday, 11/25: **Exam #2** covering 6.4, 7.5, 9.1- 9.4.

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Week 5: November 30 – December 2

Monday, 11/30: Cover 10.1 Variables and Like Terms, 10.2 The distributive property, 10.3 Solving equations using the addition property.

Wednesday, 12/2: Cover 10.4 Solving equations using the division or multiplication properties, 10.5 Solving equations using two properties. Review the final exam covering all section from 187B. **QUIZ #3**

Week 6: December 7 - 9

Monday, 12/7: Cumulative **final exam**, covering all sections included on the previous exams in 187B only.

Wednesday, 12/9: No Class

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Brock – Fall 2009

187 AA *(my math lab: brock38352)*		187B *(my math lab: brock52395)*	
9/21	1.1 – 1.3	11/2	3.5 – 3.7
9/23	1.4 – 1.6	11/4	4.1 – 4.3
9/28	1.7 – 1.8 / Review/ Quiz #1	11/9	5.1 – 5.3
9/30	Test #1	11/11	5.4 – 5.5/ Review/ Quiz #1
10/5	2.1 – 2.2	11/16	Test #1
10/7	2.3 – 2.4	11/18	9.1 – 9.4
10/12	2.5 – 2.7	11/23	6.4, 7.5 / Review/ Quiz #2
10/14	2.8 – 2.9/ Review / Quiz #2	11/25	Test #2
10/19	Test #2	11/30	10.1 – 10.3
10/21	3.1 – 3.4	12/2	10.4 – 10.5 / Review /Quiz #3
10/26	Review / Quiz #3	12/7	187B Final Exam
10/28	187 AA Final Exam		

You have the following options to get your homework.

1. **Distributed in class. Only on the day of the lecture.**
2. **Online (to print). Go to www.sthsonline.com/LTCC for homework you can printout.**
3. **Online. (complete online). MyMathLab. Go online to MyMathLab.com and log in using your access code and my class ID:**

> **187AA: brock 38352   187B: brock52395**
> *If you choose this option – you MUST turn in your "answers worked out" to receive credit.*

Grades can be found at www.sthsonline.com/grades

Login password: ltcc (last four digits of phone number)

> *Instructor Contact Information:*
>
> **Laurel Brock**
> **cell phone: 530-307-9934**
> **lbrock@ltusd.org**