MATH 4 (Prealgebra) Syllabus, Rev. D, S07
Revised 3/12/2007

Santa Barbara City College

SYLLABUS:
Math 4, Prealgebra
3 Units, Spring 2007, Section # 6028
• Bring this syllabus to class every day!!!
• If you lose your syllabus, print your own copy from the Engineering web site (listed below).
• All your work must be written in pencil – notes & corrections must be written in pen.

INSTRUCTOR:
Dr. Nick Arnold
Office: PS 118
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Web Site: http://cs.sbcc.edu/physics/engineering/
Office Hours: Monday: 2:45-3:35 PM; Tuesday: 12:20-1:10 PM; Wednesday: 2:45-3:35 PM; Thursday: 12:20-12:45 PM and 1:45-2:10 PM; Friday: 10:40-11:05 PM and 2:30-2:55 PM

CLASS MEETINGS:
MW 3:55-6:00pm in BC 226 (short course starting 2/12/07)

REQUIRED TEXTS:

RECOMMENDED TEXT:

PREREQUISITE(S):
MATH 1 with grade of “C” or better, or qualifying score on SBCC placement exam.

COURSE DESCRIPTION:
Introduction to algebra: signed numbers, exponents, roots, evaluation of algebraic expressions, simplification of algebraic expressions, translation from English to algebra, solution of linear equations.

SUGGESTIONS FOR STUDYING:
Welcome to Math 4! Prealgebra is a short semester course designed to prepare you for your entry into the world of algebra and beyond. Together we will explore ideas and concepts that will enable us excel in this math class and others. In order to do this, I will be giving short lectures and then handing out group work that we will work on together and hopefully complete during class. In a sense, I will be your “in-class tutor,” helping you with your assignments.

• Attend class regularly – this is one of the highest indicators of student success!
• Read the book before it is covered in class (Reading Questions will be assigned).
• Free tutoring is available in the Math Lab (IDC Bldg) and on Saturdays (LRC).
• Work in STUDY GROUPS!!!
• If you miss a class, get the notes from a Study Group partner (make arrangements early in the semester).
• See me during office hours for help or clarifications.
• Check your SBCC Pipeline account (you can set up a forwarding address) for updates.
• Students with disabilities who are requesting accommodations should use the following SBCC procedure: contact the DSPS office in SS160 (x2364), present documentation of disability for review by a disabilities specialist, discuss options for support through DSPS, and present a signed DSPS authorization for accommodation to your instructor.

**Attendance:** The key to doing well in this class is to attend every period. Since we do lots of group work, you are an integral part of the class! If you miss class, then you are letting your fellow students down by not doing your fair share. Roll will be taken by the assignments you turn in every day. If I see that you are not turning in assignments, then I will assume you are not attending class. By missing class just 2-3 times, you could potentially drop your grade by one letter. If you are no longer attending class, do not assume that I will drop you! Ultimately it is YOUR responsibility to drop this class before the drop date, if you do not want a failing grade.

**Homework → Coursework:** Coursework sets will be assigned every class period and will be due the following class. You are going to be given LOTS of coursework. Completing your coursework assignments is by far the MOST important thing you can do to succeed in this class. (I prefer to call it “Coursework” instead of “Homework”, because I prefer that you do the work at SBCC (in a study group, in the Math Lab, etc.) rather than at “Home”, where there are lots of distractions.

Here is the grade breakdown:
- Coursework: 10%
- Group-work: 10%
- Quizzes: 20%
- Exams: 40%
- Final: 20%
- Total: 100%

**Class Schedule and Coursework Assignments**

**EOO → Every Other Odd**

**Monday 2-12**
- Lecture sections: 1.1, 1.2, 1.3, 1.4.
- Coursework #1: Sec. 1.1: 1-67 odds, 69, 70, 71, 72, 74.
- Sec. 1.2: 1-79 odds, 81-92 all.
- Sec. 1.3: 1-49 odds, 50, 53, 54, 57, 60, 61, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72.
- Sec. 1.4: 1-57, odds.
- Getting Ready for Class Sect. 1.5 (pg 54), 1.6 (pg 66), 1.7 (pg 78), 1.8 (pg 90)

**Wednesday 2-14**
- Lecture sections: 1.5, 1.6, 1.7, 1.8.
- Coursework #2: Sec. 1.5: Do Appendix 2 first, then 1-97 EOO.
- Sec. 1.6: 1-67 EOO, 69-81 odds.
- Sec. 1.7: 1-65 odds.
- Sec. 1.8: 1-18 all, 19-39 odds.
- Getting Ready for Class Sect. 2.1 (pg 114), 2.2(pg 124), 2.3(pg 132), 2.4 (pg 142)

**Wednesday 2-21**
- Lecture sections: 2.1, 2.2, 2.3, 2.4.
- Coursework #3: Sec. 2.1: 1-87 odds, 91-98 all, 103-108 all.
- Sec. 2.2: 1-103 odds.
- Sec. 2.3: 1-89 odds, 90, 91, 92.
- Sec. 2.4: 1-87 odds.
- Getting Ready for Class Sect. 2.5 (pg 150), 2.6(pg 158), 3.1 (pg 178)
Monday 2-26
Lecture sections: 2.5, 2.6, 3.1.
Coursework #4: Sec. 2.5: 1-83 odds.
   Sec. 2.6: 1-63 odds.
   Sec. 3.1: 1-81 odds.

Wednesday 2-28
Lecture sections: 3.2, 3.3, 3.4.
Coursework #5: Sec. 3.2: 1-75 odds.
   Sec. 3.3: 1-91 odds.
   Sec. 3.4: 1-63 odds.

Monday 3-5
Exam I
Covers sections: 1.1 through 3.1.

Wednesday 3-7
Lecture sections: 3.5, 3.6, 3.7.
Coursework #6: Sec. 3.5: 1-79 odds.
   Sec. 3.6: 1-41 odds.
   Sec. 3.7: 1-47 odds, 48, 49, 50, 61, 62, 63, 64.

Monday 3-12
Lecture sections: 3.8, 3.9, 4.1.
Coursework #7: Sec. 3.8: 1-77 odds.
   Sec. 3.9: 1-65 odds.
   Sec. 4.1: 1-79 odds.

Wednesday 3-14
Lecture sections: Sec. 4.2, 4.3, 4.4.
Coursework #8: Sec. 4.2: 1-57 odds, 63, 64, 65, 69, 70.
   Sec. 4.3: 1-69 odds.
   Sec. 4.4: 1-63 odds.

Monday 3-19
Lecture sections: 4.5, 4.6, 4.7.
Coursework #9: Sec. 4.5: 1-31 odds, 32-36 all.
   Sec. 4.6: 1-37 odds, 40, 49, 55, 59, 65.
   Sec. 4.7: 1-39, odds, 40, 41, 42.

Wednesday 3-21
Lecture Sections: 4.8, 4.9, 5.1.
Coursework #10: Sec. 4.8: 1-49 odds .
   Sec. 4.9: 1-45 odds.
   Sec. 5.1: 1-85 odds.

Monday 3-26
Exam II
Covers sections: 3.2 through 4.7.

Wednesday 3-28
Lecture Sections: 5.2, 5.3, 5.4.
Coursework #11: Sec. 5.2: 1-69 odds, 79, 81.
   Sec. 5.3: 1-75 odds.
   Sec. 5.4: 1-45 odds, 49, 53, 54, 55.
Monday 4-9  Lecture sections:  5.5, 5.6, 5.7.
Coursework #12:  Sec. 5.5:  1-65, 66, 67, 68, 87, 88.
      Sec. 5.6:  1-35 odds.
      Sec. 5.7:  1-29 odds, 30, 31, 32, 33-43 odds..

Wednesday 4-11 Lecture sections:  5.8, 5.9, 6.1.
Coursework #13:  Sec. 5.8:  1-29 odds, 30-34 all.
      Sec. 5.9:  1-35 odds.
      Sec. 6.1:  1-29 odds, 35-42 all.

Monday 4-16  Lecture sections:  8.1, 8.2, 8.3, 8.4.
Coursework #14:  Sec. 8.1:  1-35 odds, 43, 45, 47.
      Sec. 8.2:  1-7 odds, 11-17 odds, 31-59 odds.
      Sec. 8.3:  1-33 odds.
      Sec. 8.4:  1-21 odds, 27-31 odds. (time conversions)

Wednesday 4-18 Lecture sections:  9.1, 9.2, 9.3.
Coursework #15:  Sec. 9.1:  1-65 odds.
      Sec. 9.2:  1-41 odds.
      Sec. 9.3:  1-63 odds.

Monday 4-23  Exam III→ Covers sections:  4.8, 4.9, 5.1 through 6.1, and 8.1 through 8.4.

Wednesday 4-25 Lecture sections:  9.4, 9.5, 7.1.
Coursework #16:  Sec. 9.4:  1-57 odds.
      Sec. 9.5:  1-31 odds.
      Sec. 7.1:  1-75 odds.

Monday 4-30 Lecture sections:  7.2, 7.3, 7.4.
Coursework #17:  Sec. 7.2:  1-41 odds.
      Sec. 7.3:  1-15 odds, 29, 31.
      Sec. 7.4:  1-1-19 odds, 33.

Wednesday 5-2  Exam IV→ Covers sections:  9.1- 9.5, 7.1 through 7.4.

Monday 5-7 Lecture sections:  7.5, 7.6, 7.7.
Coursework #18:  Sec. 7.5:  1-15 all.
      Sec. 7.6:  1-12 all.
      Sec. 7.7:  1-4 all.

Wednesday 5-9 Last day of class, we will review for the final!!

Monday 5-14 Final, 1:00-3:00 PM.

Note:  This syllabus is a guideline for how the course will be conducted. Changes to the syllabus will be kept to a minimum. However, the instructor may make changes as necessary.