

Math 3120 – Foundations of Algebra and Analysis - Section 1 Fall 2006

Information contained in this syllabus, other than the grading, late assignments, makeup work, and attendance policies, may be subject to change with advance notice, as deemed appropriate by the instructor. Changes will be announced in class.

Instructor: Sarah Brown
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Email: brown_s@suu.edu Occasionally I don't receive emails, especially from yahoo accounts. If problems occur, please use brownsarah@suumail.net
Website: http://www.suu.edu/faculty/brown_s/
Prerequisites: [Math 1220](#) and [Math 1630](#)
Text: *A Transition to Advanced Mathematics* 6th Edition by Douglas Smith, Maurice Eggen, and Richard St. Andre
Other Materials: Occasionally you will need to use the internet.
Fees: none
Class Meetings: 11-11:50am Monday, Wednesday, Friday SC129.
Office Hours: Monday through Friday, 10-10:30am and 3-3:30pm in SC 120

Course Description:

A careful and thorough presentation of the fundamental mathematical concepts required to enter advanced mathematical course work: sets, logic, methods of mathematical proof, relations, functions and cardinality.

Objectives:

Create and use truth tables.
Master the basic proof methods.
Learn the foundations of set theory and cardinality.
Understand relations and functions.

Grading:

Homework (32 assignments)	450 points (15 pts each, lowest 2 assignments dropped)
Chapter Tests (4 tests)	300 points (100 pts each, lowest test dropped)
Final Exam	250 points (cumulative)

Grading Scale:

A	930-1000 (93%-100%)	B-	800-829 (80%-82%)	D+	670-699 (67%-69%)
A-	900-929 (90%-92%)	C+	770-799 (77%-79%)	D	630-669 (63%-66%)
B+	870-899 (87%-89%)	C	730-769 (73%-76%)	D-	600-629 (60%-62%)
B	830-869 (83%-86%)	C-	700-729 (70%-72%)	F	0-599 (0%-59%)

The class is 3 credits. Expect to spend at least 6 hrs on homework each week (2 hours for every hour of class). Homework is graded by selecting a few of the assigned problems. Work must be shown to get credit. You are encouraged to work in groups but may not copy each other's homework. Copying solutions from others or the back of the book or solutions manual will result in 0 credit. Homework is due at the end of class. Late homework is not accepted and missed exams cannot be made up unless there are extenuating circumstances as approved by the instructor. Grades will be posted periodically on WebCT, which can be accessed from <http://www.suu.edu/curstu/>.

University Policies:

Scholastic dishonesty will not be tolerated and will be prosecuted to the fullest extent. You are expected to have read and understood the current issue of the student handbook (published by Student Services) regarding student responsibilities and rights, and the intellectual property policy, for information about procedures and about what constitutes acceptable on-campus behavior.

Students with medical, psychological, learning, or other disabilities desiring academic adjustments, accommodations or auxiliary aids will need to contact the *Disability Support Center*, Room 205D, Sharwan Smith Center, phone (435) 865-8022. The Disability Support Center determines eligibility for and authorizes the provision of these services and aids.

Resources for Help:

- The Student Success Center <http://www.suu.edu/ss/success/> in the Sharwan Smith Center has free tutoring <http://www.suu.edu/ss/success/tutoring.html>. The Center is mainly for lower division courses, but they may have advanced tutors.
- My office hours are Monday through Friday 10-10:30am and 3-3:30pm in SC 120.
- You may form study groups with your classmates. However, the problems must be written up in your own words. Duplicate homeworks are not acceptable.
- The textbook explanations can be helpful.