INSTRUCTOR INFORMATION

Name:	Dr. Thomas E. Armstrong
Room:	418 Math/Psy Building
Phone:	410.455.2235
Email:	tarmstro@umbc.edu
Office Hours:	TuTh 1:00-2:00pm

COURSE DESIGN

Course Meeting

Monday, Wednesday & Friday 11:00-11:50am in SOND 112

Text

John Beachy & William Blair, *Abstract Algebra*, 3^{rd}*edition*.

Grading

Weekly Homework		35%
Midterm Exams	2	40%
Final Exam (Tentative)	~~Tuesday~~, May 18 10:30-12:30pm	25%
Daily Recitation		0%
Total		100%

Distribution

A	90%
B	75%
C	60%

COURSE OBJECTIVES

We begin the course with a brief review of sets, relations, and functions. We briefly present Peano's Axioms for the non-negative integers from the Appendix. Altogether we cover **A.1-A.4** and **2.1-2.2** before turning our attention to **Chapter 1** on the Integers and basic Number Theory. **Chapter 2.3** on Permutations will begin the material for Exam II; **Chapter 3** on Groups forms the basis for the rest of the material for Exam II; **Chapter 4** on Polynomials will be heavily emphasized on the Final Exam.

Recitation

Classes will generally begin with presentation by 1 - 2 students of solved problems from the preceding week's material.

Homework

Homework will be due on **Wednesday** of each week. Late homeworks may be submitted by the following Friday with valid excuse. One or two assignments may be disregarded for cause.

Section	Page	Problems
2.1	61	15, 17, 18, 19
2.2	69	3, 5, 7, 10, 11
A.1	435	10, 11
A.4	444	9, 10, 11, 12, (9iii Extra Credit)
1.1	14	4 - a, c, e, 6 - a, c, e, 7, 11, 14, 17, 19
1.2	22	7, 10, 16, 20
1.3	32	1d, 4, 7 - b, d, 14, 16a, 20
1.4	43	2 - b, c, 6, 9b, 10, 13b, 15, 20, 26
2.3	84	1 - b, f, 3, 5, 11, 15, 16
3.1	100	5, 8, 10, 11, 15, 19, 23
3.2	113	1 - b, d, 11, 12, 19, 20, 25
3.3	123	4, 5, 8, 11, 13, 16
3.4	132	4, 7, 11, 14, 17, 24, 26
3.5	140	2, 3, 10, 12, 13, 17, 19
3.6	150	5, 9, 10, 15, 17, 21, 24
3.7	162	4, 6, 7 - b, d, 10, 14, 18
3.8	176	4, 9, 12, 18, 19, 23
4.1	189	1 - c, d, 5 - b, d, 6, 7, 11, 13, 17, 18
4.2	200	1c, 2c, 3d, 5c, 9, 11, 18b
4.3	209	3, 5, 6, 12, 14, 15, 22
4.4	218	1b, 2d, 4c, 7, 10, 16
5.1	229	2 - c, e, 4, 7, 13, 16, 20 - c, d, 21
5.2	249	3, 6, 8, 11, 18, 19, 22
5.3	259	4, 6, 9, 11, 17, 24
5.4	267	3, 5, 8, 10, 13

ACADEMIC HONESTY

By enrolling in this course, each student assumes the responsibilities of an active participant in UMBC's scholarly community, in which everyone's academic work and behavior are held to the highest standards of honesty. Cheating, fabrication, plagiarism, and helping others to commit these acts are all forms of academic dishonesty, and they are wrong. Academic misconduct could result in disciplinary action that may include, but is not limited to, suspension or dismissal. To read the full Student Academic Conduct Policy, consult the UMBC Student Handbook, the Faculty Handbook, or the UMBC Policies section of the UMBC Directory. [Statement adopted by UMBC's Undergraduate Council and Provost's Office.]