

**St. Francis Xavier University**  
**Department of Mathematics,**  
**Computing and Information Systems**  
**Math 354 - Modern Algebra**

**Instructor:** Aaron Childs  
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Office Hours:

	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
<b>8:15-9:15</b>	Math 333			Math 231	
<b>9:15-10:15</b>	Office Hours			Office Hours	
<b>10:15-11:15</b>	Office Hours	Math 231	Math 333	Office Hours	Office Hours
<b>11:15-12:15</b>				Math 333	Math 231
<b>12:15-1:15</b>					
<b>1:15-2:15</b>	Math 354		Math 354	Math 354	
<b>2:15-3:15</b>	Office Hours	Office Hours	Office Hours		
<b>3:15-4:15</b>		Office Hours			
<b>4:15-5:15</b>					

**COURSE INFORMATION**

**Lectures:** NH21 Mondays 1:15, Wednesdays 1:15, and Thursdays 1:15

**Topics Covered:** Chapters 1-7: Arithmetic in  $\mathbb{Z}$ , Congruence in  $\mathbb{Z}$  and Modular Arithmetic, Rings, Arithmetic in  $F[x]$ , Congruence in  $F[x]$  and Congruence-Class Arithmetic, Ideals and Quotient Rings, Groups. Selected topics from Chapters 12-16 as time permits.

**Textbook:** *Abstract Algebra, An Introduction*, Second Edition, by Thomas Hungerford. Published by Saunders College Publishing.

**Calculators:** Any calculator can be used on the tests and exam.

**Assignments:** There will be seven assignments, due anytime before 12 noon on the following dates:

Assignment #1: Friday, September 19;

Assignment #2: Friday, October 3;

Assignment #3: Friday, October 17;

Assignment #4: Friday, October 31;

Assignment #5: Friday, November 14;

Assignment #6: Friday, November 28;

Assignment #7: Friday, December 5

**Note:** Assignments handed in anytime after 12 noon on the due dates will receive a grade of 0.

**Tests and Final Exam:**

The tests and exam will be on the following dates:

Test #1: Thursday October 9  
Test #2: Thursday November 6  
Final Exam: (Tentative) Thursday December 11, 9:00 am

**Course Evaluation:**

Assignments: 20%  
Test #1: 20%  
Test #2: 20%  
Final Exam: 40%