Schedule: MWF 2 pm, Carney 103

Instructor: Mark Reeder, office: Carney 322

email: reederma@bc.edu

Office hours: MW 3-4, Thur 2-3 and by appointment. Email is good for quick questions and hints.

Course website: https://www2.bc.edu/mark-reeder/806.html

Text: Abstract Algebra by Dummit and Foote, (third edition). This is not in the bookstore; you can purchase it online. Some topics will be covered in online notes. Also useful are Milne’s notes http://www.jmilne.org/math/CourseNotes/index.html

Course Topics: The course will cover Groups, Rings, Modules and Representation Theory. These topics correspond to chapters 4-6,8-12,18,19 in Dummit and Foote.

Prerequisites: It is necessary to have had a solid undergraduate abstract algebra course. I will assume familiarity with basic group theory and ring theory, as found for example in chapters 1,2,3,7 in Dummit and Foote. These chapters will not be covered in the course. We will start with group actions, corresponding to chapter 4.

Homework: It will be assigned and collected every two weeks, approximately. HOMEWORK WILL NOT BE ACCEPTED AFTER THE DAY IT IS DUE. Your homework must be typed in \LaTeX (see course website).

Exams: We will have one in-class exam on Friday October 21, and a final exam Tuesday Dec. 20, 9:00 am. Exams must be taken as scheduled, except for documented illness or family emergency. If you have special issues regarding exams, I need to hear about them this month, with documentation from the appropriate offices of Boston College.

Grading: Homework: 60%, Exam: 20%, Final: 20%. 