

MATH 553
Fall 2015
MWF 9:30-10:20
REC 112
Syllabus

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Office Hours: Tuesday, Thursday 10:30-11:30, Wednesday 2:00-3:15, or by appointment. (These are, of course, subject to change.)

Main Text: David S. Dummit and Richard M. Foote, Abstract Algebra (3rd Ed.), Prentice Hall.

Other Texts: Thomas W. Hungerford, Algebra, Graduate Texts in Mathematics, Springer; Nathan Jacobson, Basic Algebra (I & II), Freeman; Serge Lang, Algebra, Addison Wesley. I will try to have all three books put on reserve in the MATH library.

Prerequisites: MATH 503, or a similar introduction to abstract algebra. You should be familiar with Chapters 0-3 of Dummit & Foote (except Sec. 3.4). If you have not had any course in abstract algebra you should be registered for MATH 503 (if you are a graduate student) or MATH 450,453, or 503 if you are an undergraduate.

Outline: This course will cover the material on the syllabus for the Graduate Qualifying Exam (see the grad student handbook, www.math.purdue.edu/academic/grad/handbook.pdf). This includes Section 3.4, Chapters 4,5,7-9, 13, and 14 of Dummit and Foote. While this is a rough estimate of what will be covered, other topics may be added as time permits.

Homework: Homework will be assigned each period and will be due on Monday. Wednesday is the last day for problems to be assigned for the following Friday.

Exams: There will be a one hour midterm exam, and a two hour final exam. Both are yet to be scheduled.

Numerical Grade: Your numerical grade in the course will be determined by homework (100 points), midterm (100 points) and final exam (200 points). As a qualifying exam course, I will give final letter grades based on how prepared I feel you are for the qualifying exam at the end of this course.



EMERGENCY PREPAREDNESS SYLLABUS ATTACHMENT

EMERGENCY NOTIFICATION PROCEDURES are based on a simple concept – if you hear a fire alarm inside, proceed outside. If you hear a siren outside, proceed inside.

- **Indoor Fire Alarms** mean to stop class or research and immediately evacuate the building.
 - Proceed to your Emergency Assembly Area away from building doors. **Remain outside** until police, fire, or other emergency response personnel provide additional guidance or tell you it is safe to leave.
- **All Hazards Outdoor Emergency Warning Sirens** mean to immediately seek shelter (Shelter in Place) in a safe location within the closest building.
 - “Shelter in place” means seeking immediate shelter inside a building or University residence. This course of action may need to be taken during a tornado, a civil disturbance including a shooting or release of hazardous materials in the outside air. Once safely inside, find out more details about the emergency*. **Remain in place** until police, fire, or other emergency response personnel provide additional guidance or tell you it is safe to leave.

**In both cases, you should seek additional clarifying information by all means possible...Purdue Emergency Status page, text message, email alert, TV, radio, etc...review the Purdue Emergency Warning Notification System multi-communication layers at http://www.purdue.edu/ehps/emergency_preparedness/warning-system.html*

EMERGENCY RESPONSE PROCEDURES:

- Review the **Emergency Procedures Guidelines**
https://www.purdue.edu/emergency_preparedness/flipchart/index.html
- Review the **Building Emergency Plan** (available on the Emergency Preparedness website or from the building deputy) for:
 - evacuation routes, exit points, and emergency assembly area
 - when and how to evacuate the building.
 - shelter in place procedures and locations
 - additional building specific procedures and requirements.

EMERGENCY PREPAREDNESS AWARENESS VIDEOS

- "Shots Fired on Campus: When Lightning Strikes," is a 20-minute active shooter awareness video that illustrates what to look for and how to prepare and react to this type of incident. See: <http://www.purdue.edu/securePurdue/news/2010/emergency-preparedness-shots-fired-on-campus-video.cfm> (Link is also located on the EP website)

MORE INFORMATION

Reference the Emergency Preparedness web site for additional information:
https://www.purdue.edu/ehps/emergency_preparedness/