

**Math 418: //DRAFT ONLY// Takehome 2 due Wednesday, April 20, 2022.**

**Disclaimer, Terms, and Conditions:** You may not discuss the exam with anyone except myself. You may *only* consult the following:

- The beloved(?) text, Dummit and Foote's *Abstract Algebra*.
- Cox, Little, and O'Shea, *Ideals, Varieties, and Algorithms*.
- Your class notes and returned HW sets.
- My online class notes and HW solutions.

You can use any result in chapters 14-15 of Dummit and Foote, even if I didn't cover it in class. You can also use the result of any HW problem that was assigned, whether or not you did it. While I believe all the questions are stated correctly, please contact me if you think something is fishy.

**Office hours:** While discussion of these specific problems will be limited to clarifying their statements, I will be happy to answer any broader questions about the course material during my usual office hours (Monday and Tuesday from 1:30-2:30pm and also by appointment).