Calendar Math 333 Fall 2020

Sep 7 **LABOR DAY**	**Sep 9** Binary Operations & Groups *2.1*	**Sep 11** Groups cont'd HW 1 Assigned *2.2*
Sep 14 Subgroups *1.5/2.2*	**Sep 16** Integers *2.3*	**Sep 18** Cyclic Groups HW 1 due 11:59 PM HW 2 assigned *2.4*
Sep 21 Isomorphisms *2.6*	**Sep 23** Cosets *2.7/2.8*	**Sep 25** Coset Properties HW 2 due 11:59 PM HW 3 assigned *2.8*
Sep 28 Normal Subgroups begin scheduling for "show what you know" *2.5*	**Sep 30** Examples of Quotients *2.12*	**Oct 2** Quotient Groups HW 3 due 11:59 PM *2.12*
Oct 5 First Isomorphism Theorem *2.12*	**Oct 7** Correspondence Theorem *2.10*	**Oct 9** Midterm #1 HW 4 assigned
Oct 12 Rings "show what you know" 1 *11.1*	**Oct 14** Subrings & Homomorphisms *11.2/3*	**Oct 16** (Principal) Ideals HW 4 Due 11:59 PM HW 5 assigned midterms returned *11.2/3*
Oct 19 Quotient Rings *11.4*	**Oct 21** Adjoining Elements *11.5*	**Oct 23** First Isomorphism & Correspondence Theorems HW 5 & midterm rewrites due 11:59 PM HW 6 assigned *11.4*
Oct 26 Integral Domains & Prime Ideals *11.7/12.2*	**Oct 28** Maximal Ideals *11.8*	**Oct 30** Constructing Fields HW 6 due 11:59 PM rewrites returned *11.8*
Nov 2 Factoring Polynomials *12.3*	**Nov 4** Irreducibility Tests *12.4*	**Nov 6** Field Extensions *15.1/2*
Nov 9 Algebraic & Transcendental Elements begin scheduling for "show what you know" *15.2*	**Nov 11** Midterm #2	**Nov 13** Degree of Extensions HW 7 Assigned *15.3*
Nov 16 Thanksgiving week	**Nov 18** Thanksgiving week	**Nov 20** Thanksgiving week

Nov 23 Minimal Polynomials "show what you know" *15.3/15.4* 2	**Nov 25** Finite Extensions rewrites due by class time *15.6*	**Nov 27** Multiple Roots HW 7 due 11:59 PM *15.8* HW 8 assigned
Nov 30 Primitive Elements *15.8*	**Dec 2** Finite Fields rewrites returned *15.7*	**Dec 4** Splitting Fields HW 8 due 11:59 PM *16.4-5* HW 9 assigned
Dec 7 Galois Groups & Fixed Fields *16.5*	**Dec 9** Fundamental Theorem of Galois Theory *16.7*	**Dec 11** Applications of Galois Theory HW 9 due 11:59 PM