

SEPTEMBER 2021

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
30	31	1	2	3	4	5
6	7 Labor Day	8	9	10	11	12
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26 Week 1	27	28	29 Class#1 E Intros, syllabus, What is a continuum?	30 Lab#1 B&E Play with springs and silly putty	1	2

OCTOBER 2021

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
26 Week 1	27	28	29	30	1 Class #2 E Field, material, constitutive properties. Basic springs, failure blocks, dash-pots	2
3 Week 2	4 Class #3 E Kelvin-Voigt shock absorber, time constant. Maxwell (HW), visco-elasticity	5	6 Class #4 E Relaxation functions, Energy change	7 Lab #2 E HW #1 1-D models, silly putty	8 Class #5 E harmonic response, quality Q, Debye	9 Dot, cross, box tensors, indicial notation. delta, summation convention,
10 Week 3	11 Class #6 B Columbus Day Vectors, tensors, δ_{ij} , ϵ_{ijk} , a_{ij}	12	13 Class #7 B Coordinate transformation eigenvalues, principal coordinates	14 Lab #3 E HW #2 Vectors and tensors	15 Class #8 B Tensor fields, comma notation Integral theorems Traction vector, Stress tensor	16
17 Week 4	18 Class #9 B Symmetry, Principal stresses	19	20 Class #10 E Comma notation; integral theorems	21 Lab #4 E HW #3 Stress tensor, rotation	22 Class #11 E Traction and torque; Mohr circles in 3D 511 reports	23
24/31 Week 5	25 Class #12 E Coulomb failure; pore pressure	26	27 Class #13 E Deviatoric stress	28 Lab #5 E HW #4 Principal values, Mohr's circles	29 Class #14 E Mohr-Coulomb failure; friction & fracture	30 Midterm study Q posted Halloween

NOVEMBER 2021

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
31 Week 6	1 Class#15 E conventions; fault types; Byerlee's Law	2	3 Class#16 E Pore pressure; Hydro vs litho; ductility	4 Lab #6 E Study Q for Mid-term	5 Class#17 B measuring stress 511 updates	6
7 Week 7	8 Review B Midterm study Q #6 Distrib midterm	9	10 Class#18 B measuring stress in the Earth	11 Veterans' Day Observed	12 Class#19 B Intro to strain	13 Midterm due
14 Week 8 HW#5 live	15 Class#20 E F _{iA} and Finite- strain tensors	16	17 Class#21 E Finite-strain; tensor F _{iA} Material/spatial	18 Lab#7 B HW #5 Stress, beachballs, fracking, icebergs	19 Class#22 B Compatibility, Moments, 511 1-page outlines	20
21 Week 9 HW#6 live	22 Class#23 E Flex'l rigidity, wavy lithosph or ice shelf	23	24 Class#24 B Study session HW#6 Strain HW#5 due	25 Thanksgiving Day	26 Holiday	27
28 Week 10 HW#7 live	29 Class#25 B Conservation laws	30	1	2	3	4

DECEMBER 2021

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
28 Week 10	29	30	1 Class #26 B Constitutive relations HW#6 due	2 Lab #8 B HW #7 Thermal and moments	3 Class #27 B Fracture mechanics	4
5 Week 11 Study Q for Final posted	6 Class #28 B Linear viscous fluid	7	8 Class #29 E Elastic waves HW#7 due	9 Lab #9 B&E Study Q for Final Exam	10 Class #30 E Kinematic waves Final Exam distributed	11
12 Exam Week	13 AGU ESS511 talks in exam slot (cancelled, see Dec 20)	14	15 Final exam due	16	17	18
19	20 ESS 511 papers and recorded talks due	21 Grades turned in	22	23	24	25 Christmas
26	27	28	29	30	31	1 New Years