

Students Accessibility Services

If you have a disability for which you may be requesting an accommodation, please contact Student Accessibility Services, 121 East Annex, 581.2319, as early as possible in the term. **Students who have already been approved for accommodations by SAS and have a current accommodation letter should meet with me privately as soon as possible.**

Sexual violence policy

The University of Maine is committed to making campus a safe place for students. Because of this commitment, if you tell a teacher about an experience of sexual assault, sexual harassment, stalking, relationship abuse (dating violence and domestic violence), sexual misconduct or any form of gender discrimination involving members of the campus, your teacher is required to report this information to Title IX Student Services or the Office of Equal Opportunity. If you want to talk in confidence to someone about an experience of sexual discrimination, please contact these resources: For confidential resources on campus: Counseling Center: 207-581-1392 or Cutler Health Center: at 207-581-4000. For confidential resources off campus: Rape Response Services: 1-800-871-7741 or Partners for Peace: 1-800-863-9909. Other resources: The resources listed below can offer support but may have to report the incident to others who can help: For support services on campus: Title IX Student Services: 207-581-1406, Office of Community Standards: 207-581-1409, University of Maine Police: 207-581-4040 or 911. Or see the Title IX Student Services website for a complete list of services.

Course schedule disclaimer

In the event of an extended disruption of normal classroom activities (due to COVID-19 or other long-term disruptions), the format for this course may be modified to enable its completion within its programmed time frame. In that event, you will be provided an addendum to the syllabus that will supersede this version.

Tentative schedule

Day	Date	Topic	Lab
W	1/18/2023	Syllabus, Introduction, soil origins, site investigation	Soil components
F	1/20/2023	No class, video lecture: Phase relationships	
M	1/23/2023	Grain size distribution	Grain size distribution
W	1/25/2023	Atterberg limits and soil mineralogy	
F	1/27/2023	Soil classification	
M	1/30/2023	Compaction	Atterberg limits
W	2/1/2023	Water in soils: Frost action on soils	
F	2/3/2023	Water in soils: Capillarity and pore pressure	
M	2/6/2023	Water in soils: Total and effective stress	Visual classif.
W	2/8/2023	Water in soils: Total and effective stress (cont.)	
F	2/10/2023	Water in soils: Total head, pressure head, and hydraulic gradient	
M	2/13/2023	Water in soils: Darcy's law, 1D seepage	Compaction
W	2/15/2023	Water in soils: Permeability	
F	2/17/2023	Water in soils: Permeability	

Day	Date	Topic	Lab
M	2/20/2023	No class: President's day	In-situ density
W	2/22/2023	Water in soils: 2D seepage, finite difference solution *	
F	2/24/2023	Water in soils: Flow nets, flow in a section, pore pressure	
M	2/27/2023	Water in soils: Flow nets, flow in a section, pore pressure **	Permeability
W	3/1/2023	Water in soils: Uplift pressure	
F	3/3/2023	Water in soils: Internal erosion	
M	3/6/2023	Externally generated stress: Elastic solution to point load	Site investigation
W	3/8/2023	Externally generated stress: Use of charts, num solutions, and superposition	
F	3/10/2023	Consolidation: 1D compression of fine grained soils	
M	3/13/2023	No class: Spring break	
W	3/15/2023	No class: Spring break	
F	3/17/2023	No class: Spring break	
M	3/20/2023	Consolidation: Calculation of primary consolidation settlement	Bonus
W	3/22/2023	Consolidation: Rate of consolidation	
F	3/24/2023	Consolidation: Calculation of time-dependent consolidation	
M	3/27/2023	No class, video lecture: Consolidation: Applications	Consolid.
W	3/29/2023	No class, video lecture: Soil strength: 2D State of stress and principal stresses	
F	3/31/2023	Soil strength: 2D State of stress and principal stresses	
M	4/3/2023	Soil strength: Stresses at any orientation plane and Mohr's circle	Settlement estimates
W	4/5/2023	Soil strength: Invariant stresses	
F	4/7/2023	Soil strength: Solved samples of Mohr-circle problems using graphical solutions	
M	4/10/2023	Soil strength: Dilation of soils	Unconf. compression test
W	4/12/2023	Soil strength: Strength of coarse grained soils	
F	4/14/2023	Soil strength: Strength of fine grained soils	
M	4/17/2023	Soil strength: Mohr-Coulomb failure criteria	Direct shear
W	4/19/2023	Soil strength: Sample calculation of PSR, friction angles, cohesion, Su	
F	4/21/2023	Soil strength: Lateral earth pressure coefficients.	
M	4/24/2023	Soil strength: Sample calculation of active and passive earth pressure	Direct shear
W	4/26/2023	No class: Maine's day	
F	4/28/2023	Soil strength: Applications	
M	5/1/2023	Exams begin *	
W	5/3/2023	Final exam due date **	
F	5/5/2023	Semester ends	

M: Monday - E: Wednesday - F: Friday

	No class: Video lecture
	No class
	Exam due
*	Exam assignment date
**	Exam due date