



Jordan University of Science and Technology
Faculty of Agriculture
Natural Resources & Environment Department

NR432 Soil Genesis And Classification

Second Semester 2019-2020

Course Catalog

3 Credit Hours. Weathering, reactions and processes of soil genesis. Soil classification and the rationale and utilization of soil taxonomy. Field identification of soil properties, profiles and landscapes. (Prerequisite: NR 333)

Text Book

Title	Soil Genesis and Classification
Author(s)	Buol, S.W., F.D. Hole, R.J. McCracken, and R.J. Southard
Edition	4th Edition
Short Name	Ref #1
Other Information	1997

Course References

Short name	Book name	Author(s)	Edition	Other Information
Ref #2	Soil Taxonomy. A comprehensive system of soil taxonomy	Soil Survey Staff	2nd Edition	1999
Ref #3	Keys to Soil Taxonomy	Soil Survey Staff	9th Edition	2003. Book Website: www.statlab.iastate.edu/soils/keytax/

Instructor

Name	Dr. Ammar Albalasmeh
Office Location	C1L2
Office Hours	Sun : 12:30 - 14:30 Mon : 12:00 - 14:00 Tue : 10:30 - 11:30 Wed : 11:30 - 12:30
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Class Schedule & Room
Section 1: Lecture Time: Sun, Tue : 11:30 - 12:30 Room: C5020

Tentative List of Topics Covered		
Weeks	Topic	References
Weeks 1, 2	Review of morphological characteristics, Horizonation, Soil features, Horizon description	
Weeks 3, 4	Models of soil forming processes and soil-forming factors	
Weeks 5, 6	Horizons and properties diagnostic for higher categories	
Weeks 7, 8	USDA Soil Taxonomy System	
Weeks 9, 10	Other diagnostic soil characteristics	
Weeks 11, 12	Diagnostic surface horizons	
Weeks 13, 14	Diagnostic subsurface horizons	
Weeks 15, 16	Categories of soil taxonomy order, Suborder great group, Subgroup, family	

Policy	
Exams	All exams are closed book and notes. The final exam is comprehensive (covers all the material). Incomplete exams need approval from the department head/dean. The exams will include a variety of questions including computational and short answer questions.
Cheating	Prohibited; and in case of cheating the student will be subject to punishment according to the Jordan University of Science and Technology regulations.
Attendance	Mandatory according to the Jordan University of Science and Technology policy.
Participation	Participation in class discussions and activities is expected.

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