

**Urban Soils and Ecosystem Services: Assessment and Restoration**  
**ENR 5279 Course Syllabus**  
**Autumn 2020**

**INSTRUCTORS:**

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Dr. Brian Slater ([slater.39@osu.edu](mailto:slater.39@osu.edu))  
School of Environment and Natural Resources

**TEACHING ASSISTANT:**

TBD

**TIME AND PLACE:**

**Class:** W 3:00 to 5:00 PM, Animal Science Bldg (AS) 202 or **on line via ZOOM**

**Lab:** Tues (section 1), Thurs (section 2) 12:45 to 3 :45 PM, Kottman Hall (KH) 403 or **on line via ZOOM**

**CREDIT HRS:** 3 (one 2-hr class; one 3-hr lab)

**COURSE DESCRIPTION:**

A comprehensive study focused on assessment and restoration of urban soil to provide essential ecosystem services. Urban soil laboratory provides hands-on experience with soil assessment and restoration.

**COURSE OBJECTIVES:**

The aim of the proposed class is to provide knowledge to assess and restore the ability of urban soil to provide essential ecosystem services. Topics covered will include:

- (i) assessment of environmental contaminants, physical, chemical, and biological properties and
- (ii) the use of pragmatic methods to restore and/or remediate soils.

Develop a working knowledge of field and laboratory soil assessment methods required by professionals to:

- (i) conduct field soil investigation,
- (ii) collect and preserve field soil / water samples,
- (iii) request soil analyses,
- (iv) perform laboratory analyses,
- (v) interpret analytical results, and
- (vi) summarize findings and recommendations in a professional report.

**CLASS MATERIALS:**

Class notes and other supplementary materials will be available on the class Carmen page.

**GRADING:**

Undergraduate:

	% of Overall Grade
4 periodic reports @15% each	60
Final Report	20
Attendance	20

Graduate:

	% of Overall Grade
4 periodic reports @15% each	60
Final Report	20
Attendance	10
Short Paper / Presentation	10

Grading: A 90-100; B 80-89; C 70-79; D 60-69; E < 60. Plus/minus grading applied to the following overlap ranges (88-92; 78-82; 68-72; 58-62).

**ACADEMIC MISCONDUCT STATEMENT:**

Academic misconduct as defined by the university (Faculty Rule 3335-31-02) will not be tolerated. Students guilty of plagiarism of laboratory reports will be assigned a grade of E.

**DISABILITY STATEMENT:**

Students with disabilities who need accommodations should see Dr. Basta or Dr. Slater during office or contact them by telephone (614-292-6282) or e-mail ([basta.4@osu.edu](mailto:basta.4@osu.edu)) to make arrangements. Special needs must be discussed and arrangements made well in advance (preferably before the first week of class) of when arrangements to accommodate specific needs are required. Special accommodations may be arranged through the OSU Office of Disability Service, 098 Baker Hall, 113 W. 12<sup>th</sup> Ave.; Ph: 614-292-3307, <http://www.ods.ohio-state.edu/>