University of Florida
Soil and Water Science Department

SWS 6209: Urban Soil and Water Systems
Course Syllabus
(This course is also co-taught at the undergraduate level SWS 4204)

General Information

Credit/Contact	3
Teaching Format	**Canvas elearning:** https://ufl.instructure.com/courses/324952 Pre-recorded lectures Reading materials Lecture slides Multi-media materials Live chat sessions • Adobe Connect - http://mbreeze.ifas.ufl.edu/usws-toor/ • Schedule - Mondays, 8-9 PM
Term	Spring, 2017
Instructors	Dr. Gurpal Toor (813) 633-4152 (813) 634-0001 fax gstoor@ufl.edu
Office Hours	Monday- Friday: 3:00 pm – 6:00 pm.

Pre-Requisites:

Basic knowledge of Windows/Mac operating system; web browsing; Power Point; robust/high-speed Internet connection.

Course Description:
This course introduces students to the issues and opportunities related to soil and water quality in urban systems. This is a combination of synchronous and asynchronous lectures and chats, quizzes, assignments, and online discussions through which students will learn and discuss consequences of population growth on soil and water systems in urban areas. Graduate students must complete a special project and present via online to receive graduate level credits for this class.

Course Core Objectives:

1. Understand the consequences of population growth and urbanization.
2. Learn about the urban and anthropogenic impacts on soil and water systems.
3. Understand the various issues related to urban contaminants (toxic metals, organic compounds).
4. Learn about the urban agriculture and the opportunities and challenges in growing food in urban areas.
5. Understand the problems caused by urban wastewater and urban stormwater on water quality in urban systems.
6. Learn about the behavior of nutrients (nitrogen, phosphorus) in urban soil and waters.
7. Understand the various green infrastructure and new tools available to manage urban stormwater runoff pollutants and protect soil and water quality in urban areas.

Textbook:
No formal textbook. All the reading materials (book chapters, journal articles) will be made available each week through the course management system.

Course Format:
The content of this course is taught exclusively online. There will be NO on campus instruction for this course. Students are expected to view all appropriate recorded lectures, read any supplemental readings, and

complete weekly quiz PRIOR to the weekly chat session on Monday evenings from 8:30 to 10:00 pm. The chat session will be an interactive review of the week's lectures and readings with instructors leading discussion of topics. All content is provided for students on the course website and chats will be administered via Adobe Connect ®.

Grading Point Evaluation/Scale:

Criteria	SWS6209	Description
Quizzes	20%	Weekly quiz consisting of 10 multiple-choice questions (True/False, Fill-in the blanks, match-a-pair).
Chat/Discussion	10%	Attend and participate in weekly chat sessions (5%). Contribute to discussion in course management system (5%).
Class Project*	20%	Students will undertake a small project of their interest that will cover soil and water issues in urban areas. Students will write a short report (10%) and make a formal class presentation online (10%).
Midterm exam	20%	Material from lectures, readings, chats, and discussions.
Final exam	30%	Material from lectures, readings, chats, and discussions.
TOTAL	100%	

*The distinct difference between the undergraduate (SWS4204) and this graduate course is the requirement of class project. This includes submitting a short research paper (10 pages; Times Roman, 12 point, double spaced, 1 inch margins on all sides) on a subject relevant to individual students interests as well as the course content (to be determined with instructor). During the last scheduled chat session (April 11, 2016), graduate students will present a brief presentation (powerpoint) on their respective research projects.

Grading Scale:

A	95%-100%
A-	90%-94.9%
B+	85%-89.9%
B	80%-84.9%
C+	75%-79.9%
C	70%-74.9%
D+	65%-69.9%
D	60%-64.9%
E	<60%

For information on current UF policies for assigning grade points, see https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx

Attendance, Late Assignments, and Make-up Exam Policy:
Weekly chat attendance via the Adobe Chat forum is required. Attendance is based on the student's confirmation of completion of weekly materials and submission of weekly assignment. Any attendance issues must be arranged with your instructor at least one business day prior to absence.

Late quizzes are accepted only with a valid reason. Quizzes submitted after the due date and time (Mondays, 6 PM) will not be graded and a 0 grade assessed for that assignment. Make-up exam may be given in extreme circumstances, as determined on a case by case basis by instructor.

Requirements for class attendance and make-up exams, assignments and other work are consistent with university policies that can be found at: https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx.

Academic Honesty:
As a student at the University of Florida, you have committed yourself to uphold the Honor Code, which includes the following pledge: *"We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity."* You are expected to exhibit behavior consistent with this commitment to the UF academic community, and on all work submitted for credit at the

University of Florida, the following pledge is either required or implied: *"On my honor, I have neither given nor received unauthorized aid in doing this assignment*."

It is assumed that you will complete all work independently in each course unless the instructor provides explicit permission for you to collaborate on course tasks (e.g. assignments, papers, quizzes, exams). Furthermore, as part of your obligation to uphold the Honor Code, you should report any condition that facilitates academic misconduct to appropriate personnel. It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will not be tolerated. Violations will be reported to the Dean of Students Office for consideration of disciplinary action. For more information regarding the Student Honor Code, please see: http://www.dso.ufl.edu/SCCR/honorcodes/honorcode.php.

Software Use:
All faculty, staff and students of the University are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against university policies and rules, disciplinary action will be taken as appropriate.

Campus Helping Resources:
Students experiencing crises or personal problems that interfere with their general well-being are encouraged to utilize the university's counseling resources. The Counseling & Wellness Center provides confidential counseling services at no cost for currently enrolled students. Resources are available on campus for students having personal problems or lacking clear career or academic goals, which interfere with their academic performance.

- *University Counseling & Wellness Center, 3190 Radio Road, 352-392-1575,* **www.counseling.ufl.edu/cwc/**
  - Counseling Services
  - Groups and Workshops
  - Outreach and Consultation
  - Self-Help Library
  - Training Programs
  - Community Provider Database

- *Career Resource Center,* First Floor JWRU, 392-1601, **www.crc.ufl.edu/**

Each online distance learning program has a process for, and will make every attempt to resolve, student complaints within its academic and administrative departments at the program level.
See http://distance.ufl.edu/student-complaints for more details.

Services for Students with Disabilities:
The Disability Resource Center coordinates the needed accommodations of students with disabilities. This includes registering disabilities, recommending academic accommodations within the classroom, accessing special adaptive computer equipment, providing interpretation services and mediating faculty-student disability related issues. Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation

0001 Reid Hall, 352-392-8565, **www.dso.ufl.edu/drc/**
Online Course Evaluation Process
Student assessment of instruction is an important part of efforts to improve teaching and learning. At the end of the semester, students are expected to provide feedback on the quality of instruction in this course using a standard set of university and college criteria. These evaluations are conducted online at https://evaluations.ufl.edu. Evaluations are typically open for students to complete during the last two or

three weeks of the semester; students will be notified of the specific times when they are open. Summary results of these assessments are available to students at https://evaluations.ufl.edu/results

Course Outline–SWS6209: *Spring Semester 2017*

Week	**Date**	**Quiz Due (by 6 PM)**	**Chat schedule (Monday, 8-9 PM)**	**Lectures Release date in Canvas**	**Lecture Topic**
Week 1	Jan 4-6	None	No chat session	No lectures	Intro to course, syllabus, course expectations
Week 2	Jan 9-13	None	Jan 9	Jan 10 (3 lectures)*	**Module 1:** The Urban Millennium: *Consequences of Population Growth*
Week 3	Jan 16-20	Jan 16	Jan 16	Jan 17 (2 lectures)	**Module 2:** Urbanization and Urban Soils
Week 4	Jan 23-27	Jan 23	Jan 23	Jan 24 (2 lectures)	**Module 3:** Soils in the City
Week 5	Jan 30-Feb 3	Jan 30	Jan 30	Jan 31 (2 lectures)	**Module 4:** Urban Contaminants: *Introduction*
Week 6	Feb 6-10	Feb 6	Feb 6	Feb 7 (2 lectures)	**Module 5:** Urban Contaminants: *Fate, Transport, & Toxicity*
Week 7	Feb 13-17	Feb 13	Feb 13	Feb 14 (2 lectures)	**Module 6:** Urban Agriculture: *Opportunities & Challenges*
Week 8	Feb 20-24	Feb 20	Feb 20	Feb 21 (2 lectures)	**Module 7:** Urban Water Resources: *Urbanization Impacts*
Week 9	Feb 27-Mar 3	Feb 27	No chat session	No Lectures. MID-TERM EXAM from Modules 1-6	Exam will be open in Canvas on March 2 (Thursday), from 9 AM to 11 PM
Week 10	Mar 6-10	----------SPRING BREAK----------			
Week 11	Mar 13-17	None	None	Mar 14 (3 lectures)	**Module 8:** Urban Wastewater: *Use, Generation, & Management*
Week 12	Mar 20-24	Mar 20	Mar 20	Mar 21 (3 lectures)	**Module 9:** Urban Wastewater: *Research Case Studies*
Week 13	Mar 27-31	Mar 27	Mar 27	Mar 28 (2 lectures)	**Module 10:** Urban Biogeochemistry
Week 14	Apr 3-7	Apr 3	Apr 3	Apr 4 (3 lectures)	**Module 11:** Green Infrastructure
Week 15	Apr 10-14	Apr 10	Apr 10	Apr 11 *(~10 short presentations)*	Give Class Presentations on Selected Class Project
Week 16	Apr 17-21	Apr 17	No chat session	No lectures	Submit brief summaries of student presentations
FINAL EXAM	----------Exam will be open in Canvas on APRIL 25 (Tuesday) from 9 AM to 11 PM----------				

*Each lecture is 20-25 minutes long. Classes for Spring 2017 semester begin on Jan 4 and end on April 19.