



Central
North
South
SVI

LHO152 - Soils

Document Type: District Master Course Outline
Proposal Type: Revision
Requester(s): Robert Glatt Sarah Skamser
College: South
Origination Approved: 04/16/2014 - 3:37 PM

BASIC INFORMATION

Requester(s): Robert Glatt
Sarah Skamser

College: South Seattle Community College

Division/Dept: Professional Technical

Dean: Robert Glatt

Peer Reviewer(s): Van M Bobbitt
Aaron Burman
Steve Hilderbrand

COURSE INFORMATION

Proposed Course Number:

Prefix: **LHO** Number: **152**

- Request a new Prefix
 This will be a common course

Full Title: Soils

Abbreviated Title: Soils

Catalog Course Description:

Uncover the mysteries of soil through in-depth study of soil properties, management and conservation. Explore the plant-soil-water relationship, urban soils, assessment of soils on site, soil fertility and plant nutrition.

Course Length: 11 Weeks Request an Exception

Course Prerequisite(s):

None

Course Corequisite(s):

None

Topical Outline:

- | | |
|---------------------------|---|
| I. Overview of soils | 2 |
| II. Basic soil properties | 5 |
| III. Soil formation | 1 |
| IV. Urban soils | 2 |

V. Plants and soil	4
VI. Water-plant-soil systems	5
VII. Soil fertility and plant nutrition	2
VIII. Fertilizers – organic vs. inorganic	2
IX. Fertilizer selection	3
X. Soil contamination and degradation	2
XI. Soil and the landscape site	5
Total	33

COURSE CODING

Funding Source: 1.....State

Institutional Intent: 21.....Vocational Preparatory

This Course is a requirement for the following program(s):
 (No Programs Selected)

My Course Proposal is a requirement for a program not on this list
 Program Title/Description/Notes:
 One year LHO certificate (all Tracks), AAS, AAS-T

Will this course transfer to a 4-year university? **No**

Is this course designed for Limited English Proficiency? **No**

Is this course designed for Academic Disadvantaged? **No**

Does this course have a Workplace Training component? **No**

CIP Code: 01.0601 Request Specific CIP Code

EPC Code: 135 Request Specific EPC Code

Credits:

Will this course be offered as Variable Credit? No
No

List Course Contact Hours

Lecture (11 Contact Hours : 1 Credit)	33
Lab (22 Contact Hours : 1 Credit)	0
Clinical Work (33 Contact Hours : 1 Credit)	0
Other (55 Contact Hours : 1 Credit)	0
Total Contact Hours	33
Total Credits	3

COLLEGE SUPPLEMENTAL

Proposed Quarter of Implementation:

Request Provisional Exception

Class Capacity: 25

Modes of Delivery: (Check all that apply)

- Fully On Campus
- Fully Online
- Hybrid
- Other Explanation:

Class Schedule Description:

Uncover the mysteries of soil through in-depth study of soil properties, management and conservation. Explore the plant-soil-water relationship, urban soils, assessment of soils on site, soil fertility and plant nutrition.

Student Learning Outcomes:

Communication

Read and listen actively to learn and communicate

Through a topic presentation in class and exams.

Speak and write effectively for academic and career purposes

Through a topic presentation in class and exams.

Computation

Use arithmetic and other basic mathematical operations as required by program of study

Computation of fractions as part of the soil textural test.

Human Relations

Use social interactive skills to work in groups effectively

Use social interactive skills to work in lab groups effectively.

Have knowledge of the diverse cultures represented in our multicultural society

Examine how soil and its management is universally a basic human need for survival.

Critical Thinking and Problem-Solving

Think critically in evaluating information, solving problems, and making decisions

Think critically in evaluating soils, solving soil problems, and making decisions regarding solutions.

Technology

Select and use appropriate technological tools for academic and career tasks

Use of computers and libraries for further research of the topic.

Personal Responsibility

Uphold the highest standard of academic honesty and integrity

Take pride in one's work and do one's best.

Respect the rights of others in the classroom, online and in all other school activities

Attend class regularly, complete assignments on time and effectively participate in classroom and online discussions, group work and other class-related projects and activities

Abide by appropriate safety rules in laboratories, shops and classroom

Information Literacy

Independently access, evaluate and select information from a variety of appropriate sources

Access and evaluate information from a variety of sources.

Have knowledge about legal and ethical issues related to the use of information

Use information effectively and ethically for a specific purpose

Program Outcomes:

Included in Course Outcome Number	Landscape Design and Construction Certificate Program Outcomes
1, 2, 3, 4, 5, 6, 7	1. Demonstrate ability to work with site requirements, installation contractors, clients, and maintenance personnel to accomplish project within prescribed time, resources, and budgets. (SLO 1.1, 2.1, 3.1, 3.2, 4.1, 6.2, 6.4, 6.5, 7.1)
2, 4, 5, 6, 7	2. Recognize, identify, and operate work site safety practices, environmental protection, workplace standards, work ethics, and leadership skills. (SLO 1.2, 3.1, 3.2, 6.1, 6.4, 6.5)
3, 4, 5, 7	3. Prepare and generate required plans and documents for customers, co-workers, suppliers, and general public and effectively communicate desired outcomes and actions. (SLO 1.2, 2.3, 3.1, 3.2, 5.1)
	4. Describe and outline career opportunities, pathways, and requirements for entry and advancement within the field. (SLO 1.2, 4.1, 5.1, 6.2, 6.3, 7.2)
	5. Describe and demonstrate skills in use of equipment, tools, environmental controls, and computers. (SLO 1.2, 5.1, 6.2, 6.4, 6.5)

Included in Course Outcome Number	Landscape Design and Construction Degree (AAS, AAS-T) Program Outcomes
3, 4, 6, 7	6. Create and develop a plan after conferring with client and assessing the client and site needs, and demonstrate critical thinking skills to reconstruct or modify design according to environmental and human resources, codes or regulations, and or budgetary concerns. (SLO 1.2, 2.3, 3.1, 3.2, 4.1, 5.1, 6.2, 6.5, 7.2)
2, 3, 4, 6, 7	7. Plan progression and determine cost to construct hardscape and install plants according to plan. (SLO 1.2, 2.2, 2.3, 4.1, 5.1, 6.4,

	6.5)
3, 4, 5, 6, 7	8. Demonstrate ability to analyze a given site, develop a maintenance schedule and plan, identify and solve problems, and estimate to manage for cost efficiency. (SLO 1.2, 2.2, 2.3, 4.1, 5.1, 6.5,7.2)
4, 5, 6, 7	9. Discuss and practice sound business practices as it relates to planning operations, budgets, personnel, customer service, and sales and marketing. (SLO 1.1, 1.2, 2.3, 3.1, 3.2, 4.1, 5.1, 6.1, 6.4, 6.5, 7.2)

Course Outcomes / Objectives:

1. Summarize how the soil as a system functions.
2. Identify the interrelationships of soil, water and plants.
3. Assess and distinguish soil characteristics on a landscape site.
4. Describe "best management practices" for long term sustainable soil management.
5. Select and explain the use of soil amendments and fertilizers.
6. Compare and contrast environmental and financial choices when selecting soil amendments and fertilizers.
7. Demonstrate comprehension of leadership quality and safety standards of the landscape horticulture industry, as well as environmental, ethical and legal standards and issues.

Explain the student demand for the course and potential enrollment:

This is a required course in the core curriculum and foundational information for working with plants.

Explain why this course is being revised:

Revision of the description and course outcomes to better reflect how the course will be taught.

What challenges, if any, do you foresee in offering this course:

None. This course has been taught for over 20 years as a foundational course in the curriculum.

This is to certify that the above criteria have all been met and all statements are accurate to the best of my knowledge.

Faculty involved in originating this program:

Robert Glatt

Print Name

Robert Glatt

Signature

1/1/0001

Date

Sarah Skamser

Print Name

Sarah Skamser

Signature

1/1/0001

Date

Dean:

Karen L Whitney (Admin)

Print Name

Karen L Whitney

Signature

10/15/2013

Date

Results of SSCC Curriculum Coordinating Council Findings

Participating Faculty Response and Remarks

Recommended for approval

Not recommended for approval

Chairman, Curriculum Coordinating Council:

Diane Schmidt

Print Name

Diane Schmidt

Signature

3/11/2014

Date

Vice President for Instruction:

Donna Miller-Parker

Print Name

Donna Miller-Parker

Signature

4/16/2014

Date