FOR 127 Plants of the Pacific Northwest
1 Credit
College Now/CTE
Student Outcomes Checklist
cocc.edu/departments/college-now

Student's Name_____

Student's Signature _____ **Completion Date** _____

High School Teacher's Signature_____ _____

Recommended Grade _____ **High School** _____

COCC Review Faculty's Signature _____

COURSE DESCRIPTION: Identification, classification and distribution of shrubs, forbs, and grasses found in low, mid, and high elevation Oregon habitat types. Emphasis is placed upon proper field identification through use of terminology and taxonomic keys. We will also discuss sensitive plants and noxious weeds.

REQUIRED TEXT: (All available at COCC Bookstore)
- Plants of Pacific Northwest Coast. Author: Pojar
- Pacific States Wildflowers: Field Guide. Author: Niehaus

OPTIONAL:
- Wayside Flowers of the Pacific Northwest. Author: Strickler
- Mountain Plants of the Pacific Northwest. Author: Taylor
- Herbarium Labels, Package of 100 or develop own.

INSTRUCTIONS TO THE TEACHER: You may request a copy of student quizzes, the final exam and answer keys by calling Bret Michalski (541) 383-7756. The high school teacher may contact Bret Michalski if they'd like to have their students take the final exam or midterm on campus within the college environment during the scheduled exam time. The labs are typically in the field with ½ hour to 1 hour of classroom time to go over collections and get things in order following lab.

COURSE OUTCOMES
Upon successful completion of the course, students will be able to:
1. Accurately identify ~50 major indicator species of specific habitat types by common and scientific names.
2. Properly identify and discuss sensitive plants and noxious weeds.
3. Correctly prepare a plant collection (herbarium).

REQUIRED DOCUMENTATION: When the student has successfully completed the plant collection and quizzes and the final exam, the high school teacher will mail or deliver the following documents to: College Now Office, Central Oregon Community College, 2600 NW College Loop, Bend, OR 97703.
1. Signed final grade roster for the course.
2. Pages 1 and 2 of this Student Outcomes Checklist

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Grade		Points
Makeup:	Lab Quizzes (3 x 30 pts each)	90
	Plant Collection (50 specimens x 2pts each)	
	plus max 25 pts for table of contents	
	plus max 25 pts for presentation	150
	Final Exam (50 specimens x 2 pts each))	100
	Maximum Points	340

Note: A C or better is needed for this course to count toward the Forest Resources Technology A.A.S. degree at COCC.

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GRADE COMPUTATION

	POINTS
Lab Quiz Scores	Maximum 30 points ea.
1. Green Ridge/Lake Billy Chinook	_____
2. Grasses, Central Oregon Noxious Weeds	_____
3. Cascades/House Rock	_____
QUIZ POINTS:	_____ 90 Points Possible
Plant Collection	
(Specimens: 50 x 2 points/specimen = 100)	_____
(Table of Contents: 25 points minus ¼ point per error)	_____
(Presentation: 25 points minus ¼ point per error)	_____
COLLECTION POINTS:	_____ 150 Points Possible
FINAL EXAM POINTS:	_____ 100 Points Possible
(Samples: 50 x 2 points per sample)	
TOTAL POINTS:	**_____ 340 Points Possible**

RECOMMENDED GRADE: _____
(Enter here and on page 1)

GRADES: A, A-, B+, B, B-, C+, C, D, F.
See College Now Grading.

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GRADING SCALE:

A	92-100	C+	77-78
A-	89-91	C	70-76
B+	87-88	D	60-69
B	82-86	F	Below 60
B-	79-81		

General:
Quizzes and the final exam will be comprehensive.

Quizzes:
Quizzes are generally given in the field and can include any samples collected prior to that point in time. They are generally given at the start of the field portion of the lab but can be given after new plants for that week have been collected. Quizzes are open book and notes to include allowing the use of the student's plant collection. Students are not allowed to share materials during quizzes. Quizzes consist of the teacher identifying five samples by pointing to a live sample, using a pressed sample or verbalizing specific characteristics about a sample. The teacher may use various plant parts such as fruit/cones, flowers, leaves or stems as quiz items. The teacher can provide any unique characteristic about a plant and ask for the identification associated with that characteristic or may give a plant name (common or scientific) and ask for some specific characteristics.

The students will have 2-3 minutes per sample. The intent of the quiz is to test the students' comprehension of material while also allowing them to use their organizational and note taking skills. The student will be given an answer sheet to turn in, see page 10.

Final Exam:
The final exam will consist of a compilation of plants collected in the labs; a total of 50 specimens. The final can be given either in the field or in a classroom environment. In either case, the students are given a numbered list of the scientific names of the species that may be on the exam and a blank, numbered answer sheet. They are responsible for transferring the number of the correct sample on to the answer sheet into the space. The final exam is closed notes and book. At this point students have to be able to at least associate a scientific name with a sample.

If given in the field, the students will be allowed a limited amount of time for each sample and the format is basically the same as the quizzes. If given in the classroom the plants will be placed on tables with associated numbers. The students will have the entire exam time to take the exam and can revisit each sample at their leisure. Students should be allowed 2 hours for the final exam.

Plant Collection:
Each student will make a plant collection. This collection will consist of a display of shrubs, forbs and grasses. Your collection should contain pressed and dried samples on an $8^{1/2}$ x 11" photo album sheet. Each sample page should include the pressed sample, a completed **herbarium label** and a page number that coincides with the table of contents. See example of herbarium label (Page 4).

The collection must also have a **table of contents** listing all species (scientific name) alphabetically **by family, genus and species including page number**. **Neatness and correctness** are important components of this term project. Expect to collect 50 samples. Your collections will likely require one photo album.

Collections will be due the week before the final exam.
Grading will consist of:

- 25 points for the table of contents (minus ¼ point per error)
- 25 points for presentation
- One point per sample, one point per label (minus ¼ point per error)
- Total collection points of approximately 150, depending on the number of samples

No points given for samples beyond those collected in class. Include approximately 98% of the plants collected in the book. For example, if we collect 50 plants, they have to turn in at least 49 for maximum credit.

Example Schedule

Week	Lab	Quizzes
6	Juniper Ridge	**Prep quiz**
7	Green Ridge/Lake Billy Chinook	Yes
8	Grasses, Central Oregon Noxious weeds	Yes
9	Ochoco National Forest	**No**
10	Cascades/House Rock	Yes
11	Plant collection due **Exam**	

Herbarium of

Scientific Name: ***Pseudotsuga menziesii*** Family: **PINACEAE**
Common Name: **Douglas-fir** Alpha code: **PSME**

Locality: **N42°23′ W122°17′ Willamette NF - Hackleman creek.**
Habitat: **Mixed conifer – western hemlock, Pacific silver fir, Pacific yew**

Altitude: **3000′** Collected by: **John Matthew Patterson** Date: **October 18, 2002**

Juniper Ridge
Lab #1

	COMMON NAME	*SCIENTIFIC NAME*	NOTES
1.	wax currant	*Ribes cereum*	
2.	bitterbrush	*Purshia tridentata*	
3.	Idaho fescue	*Festuca idahoensis*	
4.	Indian ricegrass	*Oryzopsis hymenoides*	
5.	bluebunch wheatgrass	*Pseudoroegneria spicata*	
6.	western needlegrass	*Achnatherum occidentale*	
7.	Thurber's needlegrass	*Achnatherum thurberianum*	
8.	big bluegrass	*Poa ampla*	
9.	prairie junegrass	*Koeleria macrantha*	
10.	Sandberg's bluegrass	*Poa sandbergii*	
11.	Ross' sedge	*Carex rossii*	
12.	creamy or sulphur buckwheat	*Eriogonum sp.*	
13.	phlox	*Phlox sp.*	
14.	flax	*Linum sp.*	
15.	yarrow	*Achillea millefolium*	
16	Oregon sunshine	*Eriophyllum lanatum*	
17.	showy fleabane	*Erigeron speciosus*	
18.			
19.			

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Greenridge
Lab #2

	SCIENTIFIC NAME	ALPHA CODE	PAGE #	NOTES
1	Prunus virginiana	PRVI		
2	Montia perfoliata	MOPE	p. 294	
3	Balsamorhiza sagittata	BASA	p. 184	
4	Delphinium spp.	DELPH	p. 356	
5	Dodecatheon spp.	DODEC	p. 246	
6	Hydrophyllum capitatum	HYCA	p. 366	
7	Philadelphus lewisii	PHLE		
8	Zigadenus spp.	ZIGA.	p.66	
9	Microsteris gracilis	MIGR	p.306	
10	Collinsia parviflora	COPA	p. 372	
11	Arnica cordifolia	ARCO	p. 204	
12	Lomatium triternatum	LOTR	p. 168	
13	Lithospermum ruderale	LIRU	p. 172	
14	Senecio integerrimus	SEIN	p. 206	

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GRASSES
Lab #3

	SCIENTIFIC NAME	ALPHA CODE	Page #	LOCATION	NOTES
1	Poa sandbergii				
2	Achnatherum hymenoides				
3	Agropyron cristatum				
4	Pseudoroegneria spicata				
5	Bromus tectorum				
6	Carex rossii				
7	Lymus cinereus				
8	Festuca idahoensis				
9	Poa pratensis				
10	Poa secunda				
11	Elymus elymoides				
12					
13					
14					
15					

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Ochoco Loop
Lab #4

	Scientific Name	ALPHA Code	Common Name	Notes	PAGE
1	Cirsium spp.	CIRSI	thistle		328
2	Veratrum californicum	VECA	False hellebore		12
3	Heracleum lanatum	HELA	cow parsnip		64
5	Urtica dioica	URDI	Stinging nettle		398
6	Sedum spp	SEDUM	stone crop		166
7	Poa pratensis	POPR	Kentucky bluegrass		
8	Ranunculus glaberrimus	RAGL	sagebrush buttercup		154
9	Wyethia helianthoides	WYHE	white mule ears		104
10	Carex geyeri	CAGE	elk sedge		
11	Castilleja spp	CASTI	Indian paintbrush		116, 242
12	Potentilla gracilis	POGR	fivefinger cinquefoil		174
13	Ribes aureum	RIAU	golden currant		--
14	Calamogrostis rubescens	CARU	pinegrass		
15					
16					
17					
18					
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20					
21					
22					
23					

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HOUSE ROCK FOREST CAMP
WILLAMETTE NATIONAL FOREST
ROAD 2044
Lab #5

#	SCIENTIFIC NAME	ALPHA CODE	COMMON NAME	Page #'s	Notes
1	Oemleria cerasiformis	OECE	indian-plum	OSU 169	
2	Polystichum munitum	POMU	sword fern		
3	Montia sibirica	MOSI	Siberian candyflower	294	
4	Oxalis oregana	OXOR	wood-sorrel	282	
5	Equisetum spp	EQUIS	horsetail		
6	Polypodium glycyrrhiza	POGL 4	licorice fern		
7	Maianthemum dilatatum	MADI 2	wild or false lily of the valley	6	
8	Blechnum spicant	BLSP	deer fern		
9	Athyrium filix-femina	ATFI	lady fern		
10	Adiantum pedatum	ADPE	maidenhair fern or five-finger fern		
11	Petasites frigidus	PEFR	w. coltsfoot	106	
12	Chimaphila umbellata	CHUM			
13	Viola orbiculata	VIOR 2	roundleaf violet	164	
14	Trillium ovatum	TROV	western trillium	256	
15	Vancouveria hexandra	VAHE	northern inside-out flower	42	
16	Linnaea borealis	LIBO2			

Quiz
Name_____

1)_____
_____

2)_____
_____

3)_____
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4)_____
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5)_____
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6)_____
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7)_____
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8)_____
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9)_____
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10)_____
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