B.S. in Horticulture at Oregon State University – Curriculum

Name:			
ID:	Ontion: Harticul	tural Basaarsh	
Entering Status:	Option: Horticul		
University Core Requirements:			_
(No single course can satisfy more than one core area)			-
and the same	Option Requireme	<u>ents</u>	
Writing/Health WR 131 Finalish Composition (2) (Minimum passing grade of C.)	Plant Materials		
WR 121 – English Composition (3) (Minimum passing grade of C–) WR II (3)	(Select 1 of the fol	lowina courses)	
COMM (3)		– Plant Structure (4)	
Writing Intensive (HORT 318) (3)		– Plant Systematics (4)	
HHS 231 – Lifetime Fitness for Health (2)	BOT 425	– Flora of the Pacific Northwest (3)	
HHS 24_ – Lifetime Fitness or PAC (1)) – Crop Ecology & Morphology (3)	
Foreign Language (if deficient; waived for pre-1997 HS graduates)		- Dendrology (3)	
Parameter 2		5 – Landscape Plant Materials I (4) 8 – Landscape Plant Materials II (4)	
Perspectives (No more than 2 courses in one department)		1 – Temperate Tree Fruit, Berries, Gra	anes, and Nuts (2) alt. vei
Cultural Diversity	HORT 255 – Herbaceous Ornamental Plant Materials (3)		
Literature/Arts		3 – Systematics & Adaptations of Veg	
Social Processes			
Western Culture	Ecology		
Difference, Power, Dis	(Select 1 of the fol		
Biological Science (Met by major requirements)	BI 370 – I		
Physical Science (Met by major requirements)		- Plant Ecology (4)	vistoms (2)
Phys. or Biol. Science (Met by major requirements)	HUKI 31	B – Applied Ecology of Managed Ecos	ystems (3)
Math	Technology		
MTH 105, 111, 112, 211, 241, 245, or 251 (4) (Met by major requirements)	(Select 1 of the following	lowing courses)	
(Students must receive a grade of C-, or higher, to continue on to the next math	HORT 414	4 – Precision Agriculture (4)	
course)	PBG 441	– Plant Tissue Culture (4)	
	Harticultural Com	munication	
Synthesis/Upper Division – choose from provided list	Horticultural Com	5 – Projects: Data Presentations (1)	
(Each course from a different department) Contemp. Global Issues (3)		7 – Seminar (1)	
Science, Technology, Society (3)		1 – Horticulture Book Club (1)	
Major Core:		lowing Writing Intensive Courses)	
General Science		– Flowering Plants of the World (3)	(0)
MTH 251 – Differential Calculus (4)		 Ag & Environmental Predicaments (Applied Ecology of Managed Ecos 	•
(Prereq of C- or higher in MTH 111, or in MTH 112 if taking MTH 251)	HOKI 310	s – Applied Ecology of Mariaged Ecos	ystems (5)
CH 231 – General Chemistry (4) & CH 261 – Lab for Chemistry 231 (1)	Capstone		
CH 232 – General Chemistry (4) & CH 262 – Lab for Chemistry 232 (1)	(Select 1 of the foll	= :	
CH 233 – General Chemistry (4) & CH 263 – Lab for Chemistry 233 (1)	HORT 452 – Berry & Grape Physiology & Culture (4) alt. year		
(Students must receive a grade of C-, or higher, to continue on to the next		3 – Grapevine Growth & Physiology (3	•
chemistry course in the series)		4 – Principles & Practices of Vineyard 3 – Seed Biology (3) <i>alt. year</i>	Production (3)
		1 – Horticulture Production Case Stud	lies (4)
Bl 211 or 221 – Principles of Biology (4)		– Plant Breeding (4)	
BI 212 or 222 – Principles of Biology (4) BI 213 or 223 – Principles of Biology (4)		3(,	
or the alternative BI 204–206 series:	Advanced Horticu	ltural Science	
BI 204 – Introductory Biology I (4)	PBG 430	– Plant Genetics (3)	
BI 205 – Introductory Biology II (4)			
BI 206 – Introductory Biology III (4)	Math and Science		
		 Differential Calculus (4) (Prereq of C Integral Calculus (4) (Prereq of C- or 	
Agricultural Science		Introduction to Statistical Methods (4)	
BOT 331 – Plant Physiology (4)	51 551	introduction to statistical Methods (-	")
BOT 350 – Introductory Plant Pathology (4) CROP 440 – Weed Management (4)	(Select 3 of the fol	lowing courses)	
ENT 311 – Introduction to Insect Pest Management (4)	BB 350 – Elementary Biochemistry (4)		
SOIL 205 – Soil Science (3) <u>& SOIL 206 – Lab (1) OR CSS 205 Soil Science (4)</u>		Organic Chemistry (4) (Prereq of C- or hig	
		Organic Chemistry (4) (Prereq of C- or	higher in CH 331)
Orientation		General Physics (5)	
HORT 112 – Introduction to Horticultural Systems, Practices & Careers (2)	PH 202 =	General Physics (5)	
Hanticultural Science	Select 12 credits o	f upper-division Horticulture and Life	e Science courses (with
Horticultural Science HORT 301 – Growth and Development of Horticultural Crops (3)		ch mentor and advisor)	
HORT 311 – Growth and Development of Horticultural Crops (5) HORT 311 – Plant Propagation (4) (HORT 310.Princ. Plant Propag. (3) for	-	-	
E-campus students only)	Grade	Class	Credits
HORT 316 – Plant Nutrition (4)			
· ·			
Experiential Learning			
HORT 403 – Thesis (3-12) Option requires HORT 403 – Thesis to fulfill Experiential Learning requirement in the major core.			

HORT 412 – Career Exploration: Internships & Research Projects (1)

Ecology & Sustainability Ecosystems Courses (Meets Synthesis Requirements)

(Each course must be from a different department)

Upper Div. Units (need 60)

Contemporary Global Issues	
(Select 1 of the following courses)	
*AEC 351 – Natural Resource Economics & Policy (3)	
*AEC 352 – Environmental Economics and Policy (3)	
*BI 301 – Human Impacts on Ecosystems (3)	
*CROP 330 – World Food Crops (3)	
*FES 365 – Issues in Natural Resources Conservation (3)	
*FW 325 – Global Crises in Resource Ecology (3)	
*GEOG 300 – Sustainability for the Common Good (3)	
*GEOG 330 – Geography International Development & Globalization (3)	
*HORT/ENT 331 – Pollinators in Peril (3)	
*SUS 350 – Sustainable Communities (4)	
*Z 349 – Biodiversity: Causes, Consequences & Conservation (3)	
Science, Technology and Society	
(Select 1 of the following courses)	
*ANS 315 – Contentious Social Issues in Animal Agriculture (3)	
*ANS/FES/SOC 485 – Consensus and Natural Resources (3)	
*BI 348 – Human Ecology (3)	
*BOT 324 – Fungi in Society (3)	
*CH 374 – Technology, Energy, and Risk (3)	
*ENGR 350 – Sustainable Engineering (3)	
*ENGR 363 – Energy Matters (3)	
*ENSC 479 – Environmental Case Studies (3)	
*FES/TOX 435 – Genes and Chemicals in Agriculture: Value and Risk (3)	
*FES/NR 477 – Agroforestry (3)	
*FST 421 – Food Law (3)	
*FW 470 – Ecology & History: Landscapes Columbia Basin (3)	
*GEOG 300 – Sustainability for the Common Good (3)	
*GEOG 340 – Introduction to Water Science and Policy (3)	
*HORT 330/ENT 300 – Plagues, Pests, and Politics (3)	
*HST 481 – Environmental History of the United States (4)	
*HSTS 421 – Technology & Change (4)	
*NUTR 312 – Issues in Nutrition & Health (3)	
*PH 313 – Energy Alternatives (3)	
*PHL 325 – Scientific Reasoning (4)	
*PS 476 – Science & Politics (4)	
*SOIL 395 – World Soil Resources (3)	
*SUS 304 – Sustainability Assessment (4)	
T	
Total Units (need 180)	

* = Meets bacc core requirement

Grade Requirements

Students pursuing a major or minor in horticulture are required to receive a grade of C— or better in all HORT (horticulture) and PBG (plant breeding and genetics) courses that are required for completion of their major and option, or minor. If a grade below C— is received in a HORT or PBG course required for their major and option, or minor, a student will need to retake the course and receive a grade of C— or better. If the grade below a C— was received for a course that is part of a group of courses where the student can select which courses to take (i.e., they do not need to take all of the courses, just a specified number of courses or credits) then it would be acceptable for the student to substitute a course for the one that they had received a grade below a C—. For example, in most of our options, a student needs to complete three of four plant identification courses. If a student received a grade lower than a C— in one of the classes, they could either retake the same course or complete the other three courses with a grade of C— or better.