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

Name:	
ID:	Option: Viticulture & Enology
Entering Status:	Term Entering: From:
University Core Requirements:	
(No single course can satisfy more than one core area)	Experiential Learning
Writing/Health	HORT 403 or 410 – Thesis/Internship (3-12)
WR 121 – English Composition (3) (Minimum passing grade of C–)	HORT 412 – Career Exploration: Internships & Research Projects (1)
WR II (3)	Option Requirements
COMM (3)	Option Requirements
Writing Intensive (SUS 325 or HORT 318) (3)	Plant Materials
HHS 231 – Lifetime Fitness for Health (2)	HORT 251 – Tree Fruits, Berries, Grapes & Nuts (2) alt. year
HHS 24_ – Lifetime Fitness or PAC (1) Foreign Language (if deficient; waived for pre-1997 HS graduates)	NORT 251 Tree truits, bernes, Grapes & Nuts (2) utc. yeur
Foreign Language (ii dencient; walved for pre-1997 no graduates)	Ecology
Perspectives	(Select 1 of the following courses)
(No more than 2 courses in one department)	BI 370 – Ecology (3) (Prereq of C- or higher in BI 211, 212, 213)
Cultural Diversity	BOT 341 – Plant Ecology (4)
Literature/Arts	HORT 318 – Applied Ecology of Managed Ecosystems (3)
Social Processes	
Western Culture	Technology
Difference, Power, Dis	PBG 430 – Plant Genetics (3)
Biological Science (Met by major requirements)	
Physical Science (Met by major requirements)	Horticultural Communication
Phys. or Biol. Science (Met by major requirements)	HORT 407 – Seminar (1)
	HORT 411 – Horticulture Book Club (1)
Math	
MTH 105, 111, 112, 211, 241, 245 or 251 (4) (Met by major requirements)	(Select 1 of the following Writing Intensive Courses)
(Students must receive a grade of C-, or higher, to continue on to the next math	SUS 325 – Ag & Environmental Predicaments (3)
course)	HORT 318 – Applied Ecology of Managed Ecosystems (3)
Synthesis/Upper Division—choose from provided list	Capstone
(Each course from a different department)	HORT 481 – Horticulture Production Case Studies (4)
Contemp. Global Issues (3)	
Science, Technology, Society (3)	Horticultural Science and Technology
	HORT 360 – Irrigation/Drainage (4)
Major Core:	
General Science	(Select 1 of the following courses)
MTH 112, MTH 241, MTH 245, MTH 251, or ST 351 (4)	AG 221 – Metals & Welding (3)
(Prereg of C- or higher in MTH 111, or in MTH 112 if taking MTH 251)	AG 312 – Engine Theory & Operation (3)
(Freied of C. of Higher III III 111) of III III 111 111 111 111 111 111 111 11	AG 391 – Farm Implements (3)
CH 121 – General Chemistry (5) or CH 231 – General Chemistry (4)	AG 425 – Developments in Agricultural Mechanics (3)
and CH 261 – Laboratory for Chemistry 231 (1)	HORT 260 – Organic Farming & Gardening (3)
CH 122 – General Chemistry (5) or CH 232 – General Chemistry (4)	HORT 285 – Permaculture Design and Theory (4)
and CH 262 – Laboratory for Chemistry 232 (1)	HORT 314 – Principles of Turfgrass Maintenance (4)
CH 123 – General Chemistry (5) or CH 233 – General Chemistry (4)	HORT 414 – Precision Agriculture (4)
and CH 263 – Laboratory for Chemistry 233 (1)	HORT/ENT 444 – Insect Agroecology (3)
(Students must receive a grade of C-, or higher, to continue on to the next	PBG 450 – Plant Breeding (4)
chemistry course in the series)	SOIL 316 – Nutrient Cycling in Agroecosystems (4)
themsely course in the series,	
BI 211 or 221 – Principles of Biology (4)	Viticulture
BI 212 or 222 – Principles of Biology (4)	HORT 451 – Tree Fruit Physiology & Culture (4) alt. year
BI 213 or 223 – Principles of Biology (4)	OR
or the alternative BI 204–206 series:	HORT 452 – Berry & Grape Physiology & Culture (4) alt. year
BI 204 – Introductory Biology I (4)	
BI 205 – Introductory Biology II (4)	HORT 453 – Grapevine Growth & Physiology (3)
BI 206 – Introductory Biology III (4)	HORT 454 – Principles & Practices of Vineyard Production (3)
Agricultural Science	Fermentation Foundation Sciences
BOT 331 – Plant Physiology (4)	BB 350 – Elementary Biochemistry (4)
BOT 350 – Introductory Plant Pathology (4)	<u>OR</u>
CROP 440 – Weed Management (4)	BB 314 – Cell and Molecular Biology (4) (Prereq of C- or higher in BI 211
ENT 311 – Introduction to Insect Pest Management (4)	212, 213)
SOIL 205 – Soil Science (3) & SOIL 206 – Lab (1)	,
<u>OR</u> CSS 205 – Soil Science (4)	CH 331 – Organic Chemistry (4) (Prereq of C- or higher in CH 123 or CH
<u>211</u> C33 203 3011 30161106 (4)	233+263)
Orientation	CH 332 – Organic Chemistry (4) (Prereq of C- or higher in CH 331)
HORT 112 – Intro. to Horticultural Systems, Practices, & Careers (2)	MB 302 – General Microbiology (3)
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Horticultural Science	Fermentation Science
HORT 301 – Growth and Development of Horticultural Crops (3)	FST 466 – Wine Production Principles (3) (Prereq of C- or higher in BI 21
HORT 311 – Plant Propagation (4) (HORT 310.Princ. Plant Propag. (3) for	CH 331, and CH 332) EST 467 – Wine Production, Analysis & Sensory Evaluation (5)
E-campus students only)	FST 467 – Wine Production, Analysis & Sensory Evaluation (5)

__ HORT 316 – Plant Nutrition (4)

(Select 1 of the following courses) AEC 211 – Agricultural and Food Management (4) AEC 221 – Agricultural and Food Marketing (3) *AEC 250 – Introduction to Environmental Economics & Policy (3) *AEC 251 – Introduction to Environmental Economics & Policy (3) *AEC 251 – Introduction to Environmental Economics (3) BA 215 – Fundamentals of Accounting (8A 315 – Account. Dec. Mkng.) (4) BA 365 – Family Business Management (4) Ecology & Sustainability Ecosystems Courses (Meets Synthesis Requirements) (Each course must be from a different department) 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) *FES 365 – Issues in Natural Resources Conservation (3) *GEOG 300 – Sustainability for the Common Good (3) *GEOG 330 – Geography Int'l 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) *ANK/FE/S/CO 445 – Consensus and Natural Resources (3) *BI 348 – Human Ecology (3) *BOT 324 – Fungi in Society (3) *BOT 324 – Fungi in Society (3) *ENGR 350 – Sustainable Engineering (3) *ENGR 350 – Sustainable Engineering (3) *ENGR 350 – Sustainable Ingineering (3) *FES 477 – Agroforestry (3) *FES 477 – Pervironmental Case Studies (3) *FES 471 – Food Law (3) *FES 472 – For Ecology & History: Landscapes Columbia Basin (3) *GEOG 300 – Sustainability for the Common Good (3) *GEOG 300 – Sustainability for the Common Good (3) *GEOG 300 – Sustainability for the Common Good (3) *GEOG 300 – Sustainability for the Common Good (3) *FES 472 – For Ecology & History: Landscapes Columbia Basin (3) *FES 473 – Science & Politics		Management
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1505 304 – Sustainability Assessment (4)		• •
		- 505 504 – Sustainability Assessment (4)

Upper Div. Units (need 60) _____

nescare	h Track (Optional)
	HORT 406 – Projects: Data Presentations (1)
	_ MTH 251 – Differential Calculus (4)
	_ MTH 252 – Integral Calculus (4)
	ST 351 - Introduction to Statistical Methods (4
(Select 3	<i>3 of the following)</i> _ BB 350 – Elementary Biochemistry (4)
(Select 3	, , ,,
(Select 3	BB 350 – Elementary Biochemistry (4)
(Select 3	BB 350 – Elementary Biochemistry (4) BI 370 – Ecology (3)
(Select 3	_ BB 350 – Elementary Biochemistry (4) _ BI 370 – Ecology (3) _ BOT 341 – Plant Ecology (4)
(Select 3	BB 350 – Elementary Biochemistry (4) BI 370 – Ecology (3) BOT 341 – Plant Ecology (4) CH 331 – Organic Chemistry (4)

PH 201 – General Physics (5) PH 202 – General Physics (5)

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.