Horticulture Degree Checklist

Name: _______________________________
ID: _______________________________
Entering Status: _______________________________

University Core Requirements:
(No single course can satisfy more than one core area)

Writing/Health
______ WR 121 – English Composition (3)
______ WR II (3)
______ COMM (3)
______ Writing Intensive (BOT 323, CROP/SOIL 325 or HORT 318) (3)
______ HHS 231 – Lifetime Fitness for Health (2)
______ HHS 241, – Lifetime Fitness or PAC (1)
______ Foreign Language (if deficient; waived for pre-1997 HS graduates)

Perspectives
(No more than 2 courses in one department)
______ Western Culture __________________
______ Cultural Diversity __________________
______ Literature/Arts __________________
______ Social Processes __________________
______ Difference, Power, Dis. __________________
______ Biological Science (Met by major requirements)
______ Physical Science (Met by major requirements)
______ Phys. or Biol. Science (Met by major requirements)

Math
______ MTH 105, 111, 112, 211, 241, 245 or 251 (4) (Met by major requirements)

Synthesis/Upper Division—choose from provided list
(Each course from a different department)
______ Contemp. Global Issues (3) ____________
______ Science, Technology, Society (3) ____________

Major Core:

General Science
______ MTH 112 (4) or MTH 241 (4) or MTH 245 (4)
______ BI 211 – Principles of Biology (4)
______ BI 212 – Principles of Biology (4)
______ BI 213 – Principles of Biology (4)
______ CH 121 or 221 – General Chemistry (5)
______ CH 122 or 222 – General Chemistry (5)
______ CH 123 or 223 – General Chemistry (5)

Orientation
______ CROP/HORT 101 – Intro. to Horticulture, Crop, Soil & Insect Science (1)

Plant, Soil and Insect Science
______ BOT 331 – Plant Physiology (4)
______ BOT 350 – Introductory Plant Pathology (4)
______ CROP 440 – Weed Management (4)
______ ENT 311 – Intro. to Insect Pest Management (5)
______ SOIL 205 – Soil Science (4)

Experiential Learning
______ PBG 403 or 410 – Thesis/Internship (3-12 cr)
______ PBG/HORT 407 – Senior Seminar (1)

Ecology (Select 1 of the following courses)
______ BI 370 – Ecology (3)
______ BOT 341 – Plant Ecology (4)
______ HORT 318 – Applied Ecology of Managed Ecosystems (WIC) (3)

Technology
______ PBG 441 – Plant Tissue Culture (4)

Writing Intensive (Select 1 of the following courses)
______ BOT 323 – Flowering Plants of the World (WIC) (3)
______ CROP/SOIL 325 – Ag & Environmental Predicaments (WIC) (3)
______ HORT 318 – Applied Ecology of Managed Ecosystems (WIC) (3)

Capstone
______ PBG 450 – Plant Breeding (4)

Option: Plant Breeding & Genetics

Term Entering: _______________________________
From: _______________________________

Option Requirements

Horticultural Science
______ HORT 301 – The Biology of Horticulture (3)
______ HORT 311 – Plant Propagation (4)
______ HORT 316 – Plant Nutrition (4)
______ HORT 411 – Horticulture Book Club (1)
______ HORT 412 – Career Exploration (1)

Plant Materials
(Select 2 of the following courses)
______ BOT 313 – Plant Structure (4)
______ BOT 321 – Plant Systematics (4)
______ BOT 425 – Flora of the Pacific Northwest (3)
______ CROP 200 – Crop Ecology & Morphology (3)
______ FOR 141 – Tree & Shrub Identification (3)
______ HORT 226 – Landscape Plant Materials I (4)
______ HORT 228 – Landscape Plant Materials II (4)
______ HORT 251 – Temperate Tree Fruits, Berries, & Nuts (2) alt. year
______ HORT 255 – Herbaceous Ornamental Plant Materials (3)
______ HORT 433 – Systematics & Adaptations of Veg. Crops (4) alt. year

Science and Technology
______ HORT 463 – Seed Biology (3) alt years
______ PBG 430 – Plant Genetics (3)
______ ST 351 – Intro to Statistical Methods (4)

Production and Technology
(Select 4 of the following courses, for 12 credits minimum)
______ BOT 332 – Lab Techniques in Plant Bio (3)
______ CROP 199 – Special Studies: Issues in Sustainable Ag (1)
______ CROP/HORT 300– Crop Production in PNW Agroecosystems (3)
______ CROP 310 – Forage Production (4)
______ CROP 330 – World Food Crops (3)
______ CROP 460 – Seed Production (3)
______ CROP 590 – Experimental Design in Agriculture (4)
______ CSS 320 – Principles of Oil & Fiber Crop Production (1)
______ CSS 321 – Principles of Cereal Crop Production (1)
______ CSS 322 – Principles of Potato Production (1)
______ HORT 260 – Organic Farming & Gardening (3)
______ HORT 351 – Floriculture & Greenhouse Systems (4)
______ HORT 361 – Plant Nursery Systems (4)
______ HORT 452 – Berry & Grape Physiology & Culture (4) alt. year
______ HORT 453 – Grapevine Growth & Physiology (3) alt. year
______ HORT 454 – Principles & Practices of Vineyard Production (3) alt. year
______ MB 302 – General Microbiology (3)
______ MB 303 – General Microbiology Lab (2)
______ PBG 513 – Plant Genetic Engineering (3)
______ SOIL 316 – Nutrient Cycling in Agroecosystems (3)

Plant Synthesis
______ CROP/HORT 480 – Case Studies in Cropping Systems 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)
______ AREC 351 – Natural Resource Economics & Policy (3)
______ AREC 461 – Agricultural & Food Policy Issues (4)
______ BI 301 – Human Impacts on Ecosystems (3)
______ BI 306 – Environmental Ecology (3)
______ BI 349 – Biodiversity: Causes, Consequences & Conservation (3)
______ CROP 330 – World Food Crops (3)
______ FOR 365 – Issues in Natural Resources Conservation (3)
______ FW 325 – Global Crises in Resource Ecology (3)
______ GEO 300 – Sustainability for the Common Good (3)
______ GEO 330 – Geography of International Development & Globalization (3)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>ANS 315</td>
<td>Contentious Social Issues in Animal Agriculture</td>
<td>3</td>
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<tr>
<td>AREC 352</td>
<td>Environmental Economics &amp; Policy</td>
<td>3</td>
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<tr>
<td>BI 435</td>
<td>Genes and Chemicals in Agriculture: Value and Risk</td>
<td>3</td>
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<tr>
<td>CH 374</td>
<td>Technology, Energy, and Risk</td>
<td>3</td>
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<tr>
<td>CSS 395</td>
<td>World Soil Resources</td>
<td>3</td>
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<tr>
<td>ENGR 350</td>
<td>Sustainable Engineering</td>
<td>3</td>
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<tr>
<td>ENSC 479</td>
<td>Environmental Case Studies</td>
<td>3</td>
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<tr>
<td>FST 421</td>
<td>Food Law</td>
<td>3</td>
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<tr>
<td>FW 485</td>
<td>Consensus &amp; Natural Resources</td>
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<td>GEO 300</td>
<td>Sustainability for the Common Good</td>
<td>3</td>
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<td>GEO 335</td>
<td>Introduction to Water Science and Policy</td>
<td>3</td>
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<td>HST 481</td>
<td>Environmental History of the United States</td>
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<td>HSTS 421</td>
<td>Technology &amp; Change</td>
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<td>HSTS 470</td>
<td>Ecology &amp; History: Landscapes Columbia Basin</td>
<td>3</td>
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<tr>
<td>NUTR 312</td>
<td>Issues in Nutrition &amp; Health</td>
<td>3</td>
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<td>PH 313</td>
<td>Energy Alternatives</td>
<td>3</td>
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<td>PS 476</td>
<td>Science &amp; Politics</td>
<td>4</td>
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<td>RNG 477</td>
<td>Agroforestry</td>
<td>3</td>
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<tr>
<td>Z 348</td>
<td>Human Ecology</td>
<td>3</td>
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**Total Units (need 180) __________**

**Upper Div. Units (need 60) ________**

**Research 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)

**Grade Requirements**
Students pursuing an option in Plant Breeding and Genetics, under the Horticulture Major, and under the Crop & Soil Science Major, are required to receive a grade of C- or better in all BOT, CROP, CSS, FOR, HORT, MB, PBG, SOIL and ST courses required within their major and option.