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) (Minimum passing grade of C–)
________ WR II (3)
________ COMM (3)
________ Writing Intensive (HORT 318) (3)
________ HHS 231 – Lifetime Fitness for Health (2)
________ HHS 24 – 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 251 – Differential Calculus (4)
________ BI 211 – Principles of Biology (4)
________ BI 212 – Principles of Biology (4)
________ BI 213 – Principles of Biology (4)
________ CH 231 – General Chemistry (4) & CH 261 – Lab for Chemistry 231 (1)
________ CH 232 – General Chemistry (4) & CH 262 – Lab for Chemistry 232 (1)
________ CH 233 – General Chemistry (4) & CH 263 – Lab for Chemistry 233 (1)
(Students must receive a grade of C–, or higher, to continue on to the next chemistry course in the series)

Agricultural Science
________ BOT 331 – Plant Physiology (4)
________ BOT 350 – Introductory Plant Pathology (4)
________ CROP 440 – Weed Management (4)
________ ENT 311 – Introduction to Insect Pest Management (4)
________ SOIL 205 – Soil Science (3) & SOIL 206 – Lab (1)
________ or CSS 205 – Soil Science (4)

Orientation
________ HORT 112 – Intro. to Horticultural Systems Practices & Careers (2)

Horticultural Science
________ HORT 301 – The Biology of Horticulture (3)
________ HORT 311 – Plant Propagation (4)
________ HORT 316 – Plant Nutrition (4)

Experiential Learning
________ HORT 403 – Thesis (6-12)
________ HORT 412 – Career Exploration: Internships & Research Projects (1)

Option: Horticultural Research
Term Entering: ____________________________
From: _________________________________

Option Requirements

Plant Materials (Select 1 of the following courses)
________ BOT 313 – Plant Structure (4)
________ BOT 321 – Plant Systemsatics (4)
________ BOT 425 – Flora of the Pacific Northwest (3)
________ CROP 200 – Crop Ecology & Morphology (3)
________ FES 141 – Tree & Shrub Identification (3)
________ FES 241 – Dendrology (5)
________ HORT 226 – Landscape Plant Materials I (4)
________ HORT 228 – Landscape Plant Materials II (4)
________ HORT 251 – Temperate Tree Fruit, Berries, Grapes, and Nuts (2) alt. year
________ HORT 255 – Herbaceous Ornamental Plant Materials (3)
________ HORT 433 – Systematics & Adaptations of Vegetable Crops (4)

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

Technology (Select 1 of the following courses)
________ HORT 414 – Precision Agriculture (4)
________ PBG 441 – Plant Tissue Culture (4)

Horticultural Communication
________ HORT 406 – Projects: Data Presentations (1)
________ HORT 407 – Seminar (1)
________ HORT 411 – Horticulture Book Club (1)

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

Capstone (Select 1 of the following courses)
________ HORT 452 – Berry & Grape Physiology & Culture (4) alt. year
________ HORT 453 – Grapevine Growth & Physiology (3)
________ HORT 454 – Principles & Practices of Vineyard Production (3)
________ HORT 463 – Seed Biology (3) alt. year
________ HORT 480 – Case Studies in Cropping Systems Management (4)
________ HORT 495 – Horticultural Management Plans (3)
________ PBG 450 – Plant Breeding (4)

Advanced Horticultural Science
________ PBG 430 – Plant Genetics (3)

Math and Science Foundation Courses
________ BB 350 – Elementary Biochemistry (4)
________ CH 331 – Organic Chemistry (4)
________ CH 332 – Organic Chemistry (4)
________ MTH 251 – Differential Calculus (4)
________ MTH 252 – Integral Calculus (4)
________ PH 201 – General Physics (5)
________ PH 202 – General Physics (5)
________ ST 351 – Introduction to Statistical Methods (4)

Select 12 credits of upper-division Horticulture and Life Science courses (with approval of research mentor and advisor)

<table>
<thead>
<tr>
<th>Grade</th>
<th>Class</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Students in this option must take HORT 403 – Thesis for the Experiential Learning requirement in the major core.
### 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)
- BI 306 – Environmental Ecology (3)
- CROP 330 – World Food Crops (3)
- ENT/HORT 331 – Pollinators in Peril (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)
- SUS 350 – Sustainable Communities (3)
- 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/FW 485 – Consensus and Natural Resources (3)
- ATS 320 – The Changing Climate (3)
- BI 348 – Human Ecology (3)
- BI/FES 435 – Genes and Chemicals in Agriculture: Value and Risk (3)
- BOT 324 – Fungi in Society (3)
- CH 374 – Technology, Energy, and Risk (3)
- SOIL 395 – World Soil Resources (3)
- ENGR 350 – Sustainable Engineering (3)
- ENGR 363 – Energy Matters (3)
- ENSC 479 – Environmental Case Studies (3)
- ENT/BI 300/HORT 330 – Plagues, Pests and Politics (3)
- FES/NR/RNG 477 – Agroforestry (3)
- FST 421 – Food Law (3)
- FW 485 – Consensus & Natural Resources (3)
- GEOG 300 – Sustainability for the Common Good (3)
- GEOG 340 – Introduction to Water Science and Policy (3)
- HST 481 – Environmental History of the United States (4)
- HSTS 421 – Technology & Change (4)
- HSTS 470 – Ecology & History: Landscapes Columbia Basin (3)
- 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)

**Total Units (need 180) __________**

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

### 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.