Horticulture Degree Checklist

Name: _______________________________
ID: _______________________________
Entering Status: ________________________

Option: Ecological Landscape & Urban Forestry
Term Entering: ________________________
From: _______________________________

**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 ____________________________
- Diff., Power, Disc. ____________________________
- 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, MTH 241, MTH 245 or MTH 251 (4)
- BI 211 – Principles of Biology (4)
- BI 212 – Principles of Biology (4)
- BI 213 – Principles of Biology (4)

**or the alternative BI 204–206 series:**
- BI 204. Introductory Biology I (4)
- BI 205. Introductory Biology II (4)
- BI 206. Introductory Biology III (4)
- CH 121 – General Chemistry (5) or CH 231 – General Chemistry (4)
  and CH 261 – Laboratory for Chemistry 231 (1)
- CH 222 – General Chemistry (5) or CH 232 – General Chemistry (4)
  and CH 262 – Laboratory for Chemistry 232 (1)
- CH 123 – General Chemistry (5) or CH 233 – General Chemistry (4)
  and CH 263 – Laboratory 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 351 – 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 or 410 – Thesis/Internship (6-12)
- HORT 412 – Career Exploration: Internships & Research Projects (1)

**Plant Materials**
- HORT 226 – Landscape Plant Materials I (4)
- HORT 228 – Landscape Plant Materials II (4)

*(Select 1 of the following courses)*
- BOT 313 – Plant Structure (4)
- BOT 321 – Plant Systematics (4)
- BOT 323 – Flowering Plants of the World (3)
- BOT 425 – Flora of the Pacific Northwest (3)
- FES 141 – Tree and Shrub Identification (3)
- HORT 251 – Temperate Tree Fruits, Berries, Grapes, and Nuts (2) alt. year
- HORT 255 – Herbaceous Plant Materials (3)
- HORT 433 – Systematics & Adaptations of Vegetable Crops (4)
- RNG 353 – Wildland Plant Identification (4)

**Ecology**
- HORT 318 – Applied Ecology of Managed Ecosystems (3)

**Technology**
- HORT 380 – Sustainable Landscape Design (3)

**Horticultural Communication**
- HORT 318 – Applied Ecology of Managed Ecosystems (3) *(WIC)*
- HORT 407 – Seminar (1)
- HORT 411 – Horticulture Book Club (1)

**Capstone** *(Select 1 of the following courses)*
- HORT 480—Case Studies in Cropping Systems Management (4)
- HORT 495—Horticultural Management Plans (3)

**Science and Technology of Managed Ecosystems**
- HORT 314 – Principles of Turfgrass Maintenance (4)
- HORT 315 – Sustainable Landscapes: Maint., Conserv., Restor. (4)
- HORT 350 – Urban Forestry (3)
- HORT 358 – Landscape Construction Techniques (4)
- HORT 360 – Irrigation/Drainage (4)
- HORT/FES 447 – Arboriculture (4)

*(Select 2 of the following courses, minimum 6 credits)*
- BI 301 – Human Impacts on Ecosystems (3)
- CROP/SOIL 325 – Ag and Environmental Predicaments *(WIC)* (3)
- ENT/BI 300/HORT 330 – Pests, Plagues, and Policies (3)
- FES 445/FW 445 – Ecological Restoration (4)
- FW 462 – Ecosystem Services (3)
- GEOG 340 – Introduction to Water Science & Policy (3)
- GEOG 450 – Land Use in the American West (3)
- HORT 285—Permaculture Design and Theory: Certificate Course (4)
- HORT 319 – Restoration Horticulture (3)
- HORT 351 – Floriculture & Greenhouse Systems (4) alt. year
- HORT 361 – Plant Nursery Systems (4) alt. year
- HORT 405 – Pesticide Applicator Training (4)
- HORT 414 – Precision Agriculture (4)
- HORT 455 – Urban Forest Planning & Management (4)
- HORT 499 – Building Sustainable Landscapes for the 21st Century (1)
- HORT 499 – Insect Agroecology (3)
- HORT 485 – Advanced Permaculture Design (3)
- RNG 353 – Desert Watershed Management (3)
- SOIL 316 – Nutrient Cycling in Agroecosystems (4)
- SOIL 455 – Biology of Soil Ecosystems (4)
- SOIL 499 – Intro. Sustainable Cemetery Management (3)
- SUS 304 – Sustainability Assessment (4)
- SUS 330 – Ecological Dimensions of Sustainability (3)
Business Management (Select 1 of the following courses)
- AEC 211 – Management in Agriculture (4)
- AEC 221 – Marketing in Agriculture (3)
- AEC 250 – Intro. Environmental Economics & Policy (3)
- AEC 251 – Intro. Agricultural & Food Economics (3)
- BA 215 – Fundamentals of Accounting (4)
- BA 260 – Introduction to Entrepreneurship (4)
- BA 463 – Family Business Management (4)

Ecology & Sustainability Ecosystems Courses (Meets Synthesis Requirements) (Each course must be from a different department)
- 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)
- 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)
- HORT 330/ENT/Bi 300 – Plagues, Pests and Politics (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) _________

Research Track (Optional)
- HORT 406 – Projects: Data Presentations (1)
- MTH 251 – Differential Calculus (4)
- MTH 252 – Integral Calculus (4)
- ST 351 – Intro to Statistical Methods (4)

(Select 3 of the following)
- BB 350 – Elementary Biochemistry (4)
- BI 370 – Ecology (3)
- BOT 341 – Plant Ecology (4)
- CH 331 – Organic Chemistry (4)
- CH 332 – Organic Chemistry (4)
- CH 337 – Organic Chemistry Lab (4)
- MB 230 – Introductory Microbiology (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.