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, 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 122 – 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 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 or 410 – Thesis/Internship (6-12)
HORT 412 – Career Exploration: Internships & Research Projects (1)

Option: Ecological & Sustainable Horticultural Production
Term Entering: ____________________________
From: ________________________________

Option Requirements

Plant Materials (Select 3 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)
CROP 200 – Crop Ecology & Morphology (3)
FES 141 – Tree and 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 – Systems & Adaptation of Vegetable Crops (4)

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

Technology
HORT 414 – Precision Agriculture (4)

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

Capstone
HORT 480 – Case Studies in Cropping Systems Management (4)

Advanced Horticultural Science
HORT 300 – Crop Production in Pacific Northwest Agroecosystems (4)
HORT 495 – Horticultural Management Plans (3)
PBG 430 – Plant Genetics (3)

Horticultural Production Electives
HORT 360 – Irrigation/Drainage (4)

(Select 1 of the following courses)
HORT 260 – Organic Farming/Gardening (3)
HORT 351 – Floriculture & Greenhouse Systems (4) alt. year
HORT 361 – Plant Nursery Systems (4) alt. year
HORT 451 – Tree Fruit Physiology and Culture (4)
HORT 452 – Berry & Grape Physiology & Culture (4) alt. year
HORT 453 – Grapevine Growth & Physiology (3)
HORT 454 – Principles & Practices Vineyard Prod. (3)

Horticultural Electives (Select a minimum of 9 credits from the above list or from the following list)
CROP 280 – Intro. to Complexity of Oregon Cropping Systems (4)
CROP/SOIL 325 – Ag. & Envir. Predicaments: Case Study Approach (3)
ENT 322 – Honey Bee Biology & Beekeeping (3)
HORT 199, 299, 399, 499 – Special Topics in Agriculture (1-16)
HORT 199 – Issues in Sustainable Agriculture (1)
HORT 285 – Permaculture Design & Theory: Certificate Course (4)
HORT 314 – Principles of Turfgrass Maintenance (4)
HORT 405 – Pesticide Application Training (4)
HORT 463 – Seed Biology (3) alt. year
HORT 485 – Advanced Permaculture Design (3)
HORT 499 – Insect Agroecology (3)
HORT 499 – Advanced Organic Farming (2)
HORT 499 – Organic & 3rd Party Certification (2)
PBG 441 – Plant Tissue Culture (4)
PBG 450 – Plant Breeding (4)
SOIL 316 – Nutrient Cycling in Agroecosystems (4)
SOIL 455 – Ecology of Soil Ecosystems (4)
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)

Government and Policy (Select 1 of the following courses)
- AEC 250 – Introduction to Environmental Economics and Policy (3)
- AEC 251 – Introduction to Agricultural & Food Economics
- AEC 253 – Environmental Law, Policy & Economics (4)
- AGRI 411 – Intro. to Food Systems: Local to Global (3)
- FES 492 – Ecosystem Services Ecology, Sociology, Policy (3)
- NR 455 – Natural Resource Decision Making (4)
- PS 201 – Introduction to US Government and Politics (4)
- PS 205 – Introduction to International Relations (4)
- PS 361 – State and Local Government and Politics (4)
- PS 475 – Environmental Politics and Policy (4)
- PS 477 – International Environmental Politics and Policy (4)
- SUS 350 – Sustainable Communities (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/Z 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)
- CSS/SOIL 395 – World Soil Resources (3)
- ENGR 350 – Sustainable Engineering (3)
- ENGR 363 – Energy Matters (3)
- ENSC 479 – Environmental Case Studies (3)
- ENT/BIO 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 475 – Science & Politics (4)
- SOIL 395 – World Soil Resources (3)
- SUS 304 – Sustainability Assessment (4)
- Z 348 – Human Ecology (3)

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)

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.

Total Units (need 180) __________

Upper Div. Units (need 60) __________