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 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 Requirements

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 241 – Dendrology (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)
_____ 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 330/ENT 300 – Plagues, Pests, and Politics (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/ENT 444 – Insect Agroecology (3)
_____ HORT 455 – Urban Forest Planning & Management (4)
_____ HORT 499 – Building Sustainable Landscapes for the 21st Century (1)
_____ HORT 485 – Advanced Permaculture Design (3)
_____ RNG 355 – 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)

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)
_____ 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)
_____ HORT/ENT 331 – Pollinators in Peril (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 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.