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 242 – Lifetime Fitness or PAC (1)
________ Foreign Language (if deficient; waived for pre-1997 HS graduates)

Perspectives
(No more than 2 courses in one department)
________ Cultural Diversity
________ Literature/Arts
________ Social Processes
________ Western Culture
________ 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)
(Students must receive a grade of C–, or higher, to continue on to the next math course)

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, MTH 251, or ST 351 (4)
(Prereq of C– or higher in MTH 111, or in MTH 112 if taking MTH 251)

________ 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)

________ Bi 211 or 221 – Principles of Biology: Cells (3)
________ Bi 212 or 222 – Principles of Biology: Organisms (4)
________ Bi 213 or 223 – Principles of Biology: Populations (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)

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 – Introduction to Horticultural Systems, Practices, & Careers (2)

Option: General Horticulture

Term Entering: _______________________
From: _______________________________

Horticultural Science
________ HORT 301 – Growth and Development of Horticultural Crops (3)
________ HORT 310 – Principles of Plant Propagation (3) or HORT 311 – Plant Propagation (4)
________ HORT 316 – Plant Nutrition (4)

Experiential Learning
________ HORT 403 or 410 – Thesis/Internship (3-12)
________ HORT 412 – Career Exploration: Internships & Research Projects (1)

Option Requirements

Plant Materials
(Select 3 of the following courses)
________ *BOT 220 – Introduction to Plant Biology (4)
________ BOT 313 - Plant Structure (4)
________ BOT 321 – Plant Systematics (4)
________ BOT 323 – Flowering Plants of the World (3)
________ BOT 425 – Flora of the Pacific NW (4)
________ BOT 440 – Field Methods in Plant Ecology (4)
________ CROP 200 – Crop Ecology and Morphology (3)
________ FES 241 - Dendrology (3)
________ HORT 226 – Landscape Plant Materials I (4)
________ HORT 228 – Landscape Plant Materials II (4)
________ HORT 255 – Herbaceous Ornamental Plant Materials (3)
________ RNG 353 – Wildland Plant Identification (4)

Horticultural Production & Management
(Select 6 or more of the following courses, 18 credits min.)
________ CROP 310 – Forage Production (4)
________ CROP 420 – Seed Science and Technology (3)
________ CROP 460 – Seed Production (3)
________ ENT 322—Honeybee Biology & Beekeeping (3)
________ ENT 440—Issues in Insect Toxicology (3)
________ FES 445 /FW 445 – Ecological Restoration (4)
________ HORT 260 – Organic Farming/Gardening (3)
________ HORT 283 – Intro to Urban Agriculture (3)
________ HORT 285 – Permaculture Design & Theory: Certificate Course (4)
________ HORT 314 – Principles of Turfgrass Maintenance (4)
________ HORT 315 – Sustainable Landscapes: Maintenance, Conserve, Restore (4)
________ HORT 319 – Restoration Horticulture (3)
________ HORT 300 – Crop Production in Pacific Northwest Agroecosystems (4)
________ HORT 349 – Diagnosing Plant Problems (3)
________ HORT/ FES 350 – Urban Forestry (3)
________ HORT 421 – Herbs, Spices, and Medicinal Plants (3)
________ HORT/ FES 447 – Arboriculture (4)
________ HORT 456 – Physiology and Production of Berry Crops (4)
________ HORT 485 – Advanced Permaculture Design Tools for Climate Resilience (3)
________ PGB 430 – Plant Genetics (3)
________ PBG 450 – Plant Breeding (4)
________ SOIL 316 – Nutrient Cycling in Agroecosystems (4)
________ SOIL 388 – Soil Systems and Plant Growth (4)

(No more than 4 of the following courses may be included in the 6 Horticulture Production courses)
________ HORT 212 – Intro to Organic Agricultural Systems (4)
________ HORT 306 – Inputs in Organic Cropping Systems (2)
________ HORT 307 – Organic System Predicaments (3)
________ HORT 308 – Weed Management in Organic Cropping Systems (3)
________ HORT 344 – Insect & Disease Management in Organic Cropping Systems (3)
________ SOIL 360 – Soil Management for Organic Production (3)

Capstone
(Select 1 course, additional courses in this category may be included as Horticulture Production courses)
________ HORT 418 – Golf Course Management (4)
________ CROP 480/HORT 480 – Case Studies in Cropping System Management (4)
________ HORT 481 – Horticulture Production Case Studies (4)
________ **HORT 482 – Design & Management of Organic Cropping Systems (3)
________ HORT 483 – Case Studies in Urban Agriculture (3)
General Horticulture Option - Curriculum

B.S. in Horticulture at Oregon State University

General Horticulture Option - Curriculum

Ecology/ Horticultural Communication
- *Hort 318 – Applied Ecology of Managed Ecosystems (3) (WIC)
- HORT 407 – Seminar (1) (optional)

Technology (Select 1 course)
- AG 391 – Farm Implements (3)
- AG 412 – Ag Safety and Health (3)

**CROP 355 – Organic Certification (4)
- GEOG 360 – Introduction to Geographic Information Systems (4)
- HORT 414/CROP 414 – Precision Agriculture (4)

Business Management
(Select 1 of the following courses)
- AEC 211 – Agricultural and Food Management (4)
- AEC 221 – Agricultural and Food Marketing (3)
- AEC 388 – Agricultural Law (4)
- BA 260 – Introduction to Entrepreneurship (4)
- BA 315 – Accounting for Decision Making (4)
- BA 365 – Family Business Management (4)
- NMC 311 – Introduction to Nonprofit Management (3)

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 (3)
- *AEC 253 – Environmental Law, Policy & Economics (4)
- FES 455/HORT 455 – Urban Forest Planning, Policy, and Management (4)
- LEAD 342 – Team and Organizational Leadership (3)
- LEAD 442 – Leadership Skills for Career Success (3)
- *PS 201 – Introduction to US Government & Politics (4)
- *PS 205 – Introduction to International Relations (4)
- *PS 331 – State and Local Politics (4)
- PS 470 – Global Food Politics and Policy (4)
- PS 475 – Environmental Politics and Policy (4)
- *PS 476 – Science & Politics (4)

Ecology & Sustainability Ecosystems Courses (Meets Synthesis Requirements)
(Each course must be from a different department)
- *BI 348 – Human Ecology (3)
- *BOT 324 – Fungi in Society (3)
- *ENS 479 – Environmental Case Studies (3)
- *FES 455/HORT 455 – Urban Forest Planning, Policy, and Management (4)
- *FES 365 – Issues in Natural Resource Conservation (3)
- *FES 381 – Sustainable Communities (4)
- *FES 485 – Consensus and Natural Resources (3)
- *FW 303 – Survey Geographic Information Systems (4)
- *HST 416 – Food in World History (4)
- *HST 481 – Environmental History of the U.S. (4)
- *PS 476 – Science and Politics (4)
- *SOC 481 – Society and Natural Resources (4)
- *SOIL 395 – World Soil Resources (3)
- *SOIL 397 – World Soil Resources (3)
- SUS 304 – Sustainability Assessment (4)
- WGS 340 – Women and Natural Resources (3)
- WSE 392 Bamboolooza: The Fascinating World of Bamboo (3)

Science, Technology & Society
(Select 1 of the following courses)
- *ANTH 481 – Natural Resources and Community Values (3)
- *BI 348 – Human Ecology (3)
- *BOT 324 – Fungi in Society (3)
- *ENS 479 – Environmental Case Studies (3)
- *FES 365 – Issues in Natural Resource Conservation (3)
- *FES/ECON 352 – Environmental Economics and Policy (3)
- *MICRO 360 – Microbiology (4)
- *MICRO 361 – Microbiology (4)
- *PS 331 – State and Local Politics (4)
- *PS 455 – The Politics of Climate Change (4)
- *SOC 480 – Environmental Sociology (4)
- *SUS 304 – Sustainable Communities (4)
- *Z 349 – Biodiversity: Causes, Consequences and Conservation (3)

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 re-take 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 re-take the same course or complete the other three courses with a grade of C– or better.

Research Track (optional)
- MTH 251 – Differential Calculus (4)
- MTH 252 – Integral Calculus (4)
- ST 351 – Introduction to Statistical Methods (4)

(Select 3 or more from the following courses)
- BB 350 – Elementary Biochemistry (4)
- BI 370 – Ecology (3)
- CH 331 – Organic Chemistry (4)
- CH 332 – Organic Chemistry (4)
- MB 230 – Introductory Microbiology (4)

Upper Div. Units (need 60)

Total Units (need 180)

* = Meets bacc core requirement
** for students enrolled in Organic Certificate