B.S. in Horticulture at Oregon State University – Curriculum

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 two courses in one department)

Cultural Diversity
Literature/Arts
Social Processes (PSY 201 or PSY 202)
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 requirement)

(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 math course)

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)

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)
CSS 205 – Soil Science (4)

Orientation

HORT 112 – Introduction to Horticultural Systems, Practices, & Careers (2)

Horticultural Science

HORT 301 – Growth and Development of Horticultural Crops (3)
HORT 311 – Plant Propagation (4)
HORT 316 – Plant Nutrition (4)

Option: Therapeutic Horticulture

Term Entering: __________________________
From: __________________________

Experiential Learning

HORT 403 or 410 – Thesis/Internship (6-12)
HORT 412 – Career Exploration: Internships & Research Projects (1)

Option Requirements

Plant Materials
(Select 2 courses from the following)

HORT 226 – Landscape Plant Materials I (4)
HORT 228 – Landscape Plant Materials II (4)
HORT 251 – Temperate Tree Fruit, Berries, Grapes, & Nuts (2) alt. year
HORT 255 – Herbaceous Ornamental Plant Materials (3)
HORT 433 – Systematics & Adaptation Vegetable Crops (4)

Ecology

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

HORT 481 – Horticulture Production Case Studies (4)

Horticultural Science & Technology
(Select 2 courses from the following)

ENT 322 – Honey Bee Biology & Beekeeping (3)
HORT 260 – Organic Farming/Gardening (3)
HORT 285 – Permaculture Design & Theory: Certificate Course (4)
HORT 314 – Principles of Turfgrass Maintenance (4)
HORT 315 – Sustainable Landscapes: Maint., Conserv., Restor. (4)
HORT/FES 350 – Urban Forestry (3)
HORT 351 – Floriculture & Greenhouse Systems (4) alt. year
HORT 358 – Landscape Construction Techniques (4)
HORT 360 – Irrigation/Drainage (4)
HORT 361 – Plant Nursery Systems (4) alt. year

Therapeutic Horticulture

HORT 270 – Introduction to Therapeutic Horticulture (2)
HORT 271 – Techniques & Adaptive Strategies (2)
HORT 272 – Basic Therapeutic Skills II (2)
HORT 273 – Basic Therapeutic Skills II (2)
HORT 274 – Therap. Hort. Older Adults/Children (2)
HORT 275 – Therap. Garden Design, Maintenance, Programming (2)
*PSY 201 – General Psychology (3)
*PSY 202 – General Psychology (3)
PSY 350 – Human Lifespan Development (4)
PSY 381 – Abnormal Psychology (4)

(Select 2 additional courses from the following)

HDFS 311 – Infant & Child Development (4)
HDFS 313 – Adolescent Development (4)
HDFS 314 – Adult Development & Aging (4)
PSY 330 – Brain & Behavior (4)
PSY 432 – Physiological Psychology (4)
PSY 433 – Psychopharmacology (4)
PSY 485 – Behavior Modification (4)
PSY 498 – Health Psychology (4)
SOC 350 – Health, Illness, & Society (4)
SOC 432 – Sociology of Aging (3)
SOC 439 – Welfare & Social Services (4)
SOC 440 – Juvenile Delinquency (4)
SOC 442 – Sociology of Drug Use & Abuse (4)

Confirm coursework requirements for Professional Registration by the American Horticultural Therapy Association (AHTA) at http://ahta.org/professional-registration

All coursework must have a passing grade of C minus (C-) or above or a pass for a pass/fail course.
A 480 hour AHTA approved and supervised internship is also required for Professional Registration by the AHTA.

**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)
- *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 (4)
- *WSE 470 – Forests, Wood, and Civilization (3)
- *2 349 – Biodiversity: Causes, Consequences & Conservation (3)

**Science, Technology and Society**
(Select 1 of the following courses)
- *AGRI 411 – Introduction to Food Systems; Local to Global (3)
- *ANS 315 – Contentious Social Issues in Animal Agriculture (3)
- *ANS/FES/SOC 485 – Consensus and Natural Resources (3)
- *BI 348 – Human Ecology (3)
- *BOT 324 – Fungi in Society (3)
- *CH 374 – Technology, Energy, and Risk (3)
- *ENGR 350 – Sustainable Engineering (3)
- *ENGR 363 – Energy Matters (3)
- *ENSC 479 – Environmental Case Studies (3)
- *FES/NR 477 – Agroforestry (3)
- *FST 421 – Food Law (3)
- *FW 470 – Ecology & History: Landscapes Columbia Basin (3)
- *GEOG 300 – Sustainability for the Common Good (3)
- *GEOG 340 – Introduction to Water Science and Policy (3)
- *HEST 310 – Intro to Community Engagement/Comm.-Based Design (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 421 – Technology & Change (4)
- *MB 230 – Introductory Microbiology (4)
- *PH 201 – General Physics (5)
- *PH 202 – General Physics (5)

**Research Track (Optional)**
- *HORT 406 – Projects: Data Presentations (1)
- *MTH 251 – Differential Calculus (4)
- *MTH 252 – Integral Calculus (4)
- *ST 351 – Introduction 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.

**Total Units (need 180) __________**

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

* = Meets bacc core requirement