## B.S. in Horticulture at Oregon State University General Horticulture Option - 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 2 courses in one department)
$\qquad$ 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)
$\qquad$ Contemp. Global Issues (3) $\qquad$
$\qquad$
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)

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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)
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## or the alternative BI 204-206 series:

## __ BI 204 - Introductory Biology I (4) <br> BI 205 - Introductory Biology II (4) <br> BI 206 - Introductory Biology III (4)

## Agricultural Science

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BOT 331 - Plant Physiology (4) \\
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        BI 211 or 221 - Principles of Biology: Cells (3)
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        BI 211 or 221 - Principles of Biology: Cells (3)
        BI 212 or 222 - Principles of Biology: Organisms (4)
        BI 212 or 222 - Principles of Biology: Organisms (4)
        BI 213 or 223 - Principles of Biology: Populations (4)
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        BI 213 or 223 - Principles of Biology: Populations (4)
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## Orientation

___ HORT 112 - Introduction to Horticultural Systems, Practices, \& Careers (2)

Option: General Horticulture
Term Entering:
From: $\qquad$

## Horticultural Science

$\qquad$ 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

$\qquad$ HORT 403 or 410 - Thesis/Internship (3-12)
HORT 412 - Career Exploration: Internships \& Research Projects (1)

## Option Requirements <br> 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) |
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(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)

## Ecology/ Horticultural Communication

$\qquad$ *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)
$\qquad$ FW 303 - Survey Geographic Info. Systs. In Natural Resource (3)
GEOG 360 - Introduction to Geographic Information Systems (4)
$\qquad$ HORT 414/CROP 414 - Precision Agriculture (4)

## Business Management

## (Select 1 of the following courses)

$\qquad$ AEC 211 - Agricultural and Food Management (4)
$\qquad$ 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)
$\square^{*}$ 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)
___ PPOL 447 - Integrated Policy: Food, Energy, Water, Climate (4)
$\ldots$ _ ${ }^{*}$ 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)

## Science, Technology \& Society

(Select 1 of the following courses)
___ *ANTH 481 - Natural Resources and Community Values (3)
$\ldots$ *BI 348 - Human Ecology (3)
_ *BOT 324 - Fungi in Society (3)
—__ *ENSC 479 - Environmental Case Studies (3)
$\qquad$ *FES/TOX 435 - Genes and Chemicals in Agriculture: Value and Risk (3)
*FES 485 - Consensus and Natural Resources (3)
*FW 350 - Endangered Species, Society \& Sustainability (3)
*GEO 306 - Minerals, Energy, Water \& the Environment (3)
*GEOG 300 - Sustainability for the Common Good (3)
*GEOG 340 - Introduction to Water Science \& Policy (3)
*HORT 330/ENT 300 - Plagues, Pests, and Politics (3)
*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)
*SUS 304 - Sustainability Assessment (4)
*WGSS 440 - Women and Natural Resources (3)

* WSE 392 Bamboolooza: The Fascinating World of Bamboo (3)


## Contemporary Global Issues

## (Select 1 of the following courses)

*AEC 351 - Natural Resource Economics \& Policy (3)
*AEC/ECON 352 - Environmental Economics and Policy (3)
*AG 351 - Communicating Agriculture to the Public (3)
*CROP 330 - World Food Crops (3)
*ECON 352 - Environmental Economics and Policy (3)
*FCSJ 454 - International Perspectives on Food Systems (4)
*FES 365 - Issues in Natural Resource Conservation (3)
___ *FW 325-Global Crises in Resource Ecology (3)
_ *GEOG 300 - Sustainability for the Common Good (3)
*HORT/ENT 331 - Pollinators in Peril (3)
*PHL 440 - Environmental Ethics (3)
*PHL/REL 443 - World Views \& Environmental Values (3)
*PS 455 - The Politics of Climate Change (4)
*SOC 480 - Environmental Sociology (4)
*SUS 350 - Sustainable Communities (4)
*Z 349 - Biodiversity: Causes, Consequences and Conservation (3)

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

Total Units (need 180)
Upper Div. Units (need 60)

## Research Track (optional)

$\qquad$ 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)
___M MB 230 - Introductory Microbiology (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 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.

