

## Crop & Soil Science Degree Checklist

Name: \_\_\_\_\_  
ID: \_\_\_\_\_  
Entering Status: \_\_\_\_\_

Option: **Agronomy**  
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 (CROP 325) (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 (ECON 201 or AEC 250) \_\_\_\_\_  
\_\_\_\_\_ 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*)

#### Synthesis/Upper Division

(Each course from a different department)

\_\_\_\_\_ Contemp. Global Issues (3) (Met by CROP 330 or FES 365)  
\_\_\_\_\_ Science, Technology, Society (3) (*\*course meets requirement*)

#### Major Core:

##### General Science Core

\_\_\_\_\_ MTH 241 or 245 or 251<sup>5</sup> (4)  
\_\_\_\_\_ BI 211, BI 212, BI 213 – Principles of Biology<sup>5</sup> (4,4,4)  
\_\_\_\_\_ or BI 204, BI 205, BI 206 – Introductory Biology (4,4,4)  
\_\_\_\_\_ CH 231 – General Chemistry (4) and CH 261 Laboratory for Chemistry 231 (1)  
\_\_\_\_\_ CH 232 – General Chemistry (4) and CH 262 Laboratory for Chemistry 232 (1)  
\_\_\_\_\_ 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)**

#### Orientation

\_\_\_\_\_ CROP/ENT/HORT/SOIL 101— Intro. Horticulture, Crop, Soil, Insect Science (1)

#### Agricultural Science

\_\_\_\_\_ BOT 331 – Plant Physiology (4)  
\_\_\_\_\_ BOT 350 – Introductory Plant Pathology (4)  
\_\_\_\_\_ CROP 440 – Weed Management (4)  
\_\_\_\_\_ ENT 311 – Intro to Insect Pest Management (4)  
\_\_\_\_\_ SOIL 205 – Soil Science (3) **and** SOIL 206 Soil Science Lab for Soils 205 (1)

#### Experiential Learning

\_\_\_\_\_ CROP 401, 403 or 410 – Research/Thesis/Internship (3 or more credits)  
\_\_\_\_\_ CROP 407 – Senior Seminar (1)

#### Ecology

(Select 1 of the following courses)

\_\_\_\_\_ BI 370 – Ecology (3)  
\_\_\_\_\_ BOT 341 – Plant Ecology<sup>5</sup> (4)  
\_\_\_\_\_ RNG 341 – Rangeland Ecology and Mngt. (3)

#### Technology

\_\_\_\_\_ CROP 414-Precision Agriculture (4)

#### Writing Intensive

\_\_\_\_\_ CROP/SOIL 325 – Ag & Envir. Predicaments: A Case Study Approach (WIC) (3)

#### Capstone

\_\_\_\_\_ CROP/HORT 480 – Case Studies in Cropping Systems Management (4)

### Option Requirements

#### Agronomy Core

\_\_\_\_\_ CROP 200 – Crop Ecology & Morphology (3)  
\_\_\_\_\_ CROP 280 – Intro. to Complexity of Oregon Cropping Systems (4)  
\_\_\_\_\_ CROP 319 – Principles of Field Crop Production (3)  
\_\_\_\_\_ CROP 330 – World Food Crops (3)  
\_\_\_\_\_ PBG/HORT 430 – Plant Genetics (3)  
\_\_\_\_\_ PBG/HORT 431 – Plant Genetics Recitation (1)  
\_\_\_\_\_ SOIL 316 – Nutrient Cycling in Agroecosystems (4)  
\_\_\_\_\_ ST 351 or ST 411 (4)

#### Agronomy Electives

(Choose at least 7-8 credits from the following courses)

\_\_\_\_\_ BEE 439 – Irrigation Principles & Practices (4)  
\_\_\_\_\_ BOT 313 – Plant Structure (4)  
\_\_\_\_\_ CROP 310 – Forage Production (4)  
\_\_\_\_\_ CROP 420 – Seed Science & Technology (3) (E-campus only)  
\_\_\_\_\_ CROP 460 – Seed Production (3)  
\_\_\_\_\_ HORT 316 – Plant Nutrition (4)

#### General Electives

(Choose at least 7-8 credits from the following courses)

\_\_\_\_\_ BB 350<sup>5</sup> – Elementary Biochemistry (4)  
\_\_\_\_\_ BOT 321<sup>5</sup> – Plant Systematics (4)  
\_\_\_\_\_ BOT 414<sup>5</sup> – Agrostology (4)  
\_\_\_\_\_ BOT 442 – Plant Population Ecology (3)  
\_\_\_\_\_ BOT 480 – Photosynthesis and Photobiology (3)  
\_\_\_\_\_ BOT 488 – Environmental Physiology of Plants (3)  
\_\_\_\_\_ CH 331<sup>5</sup> – Organic Chemistry (4)  
\_\_\_\_\_ CH 332<sup>5</sup> – Organic Chemistry (4)  
\_\_\_\_\_ CH 337<sup>5</sup> – Organic Chemistry Lab (4)  
\_\_\_\_\_ CROP 199 – Special Studies: Issues in Sustainable Ag (1) *repeatable*  
\_\_\_\_\_ CROP/HORT 300 – Crop Production in Pacific Northwest Agroecosystems (4)  
\_\_\_\_\_ CSS 320 – Principles of Oil & Fiber Crop Production (1)  
\_\_\_\_\_ CSS 321 – Principles of Cereal Crop Production (1)  
\_\_\_\_\_ CSS 322 – Principles of Potato Production (1)  
\_\_\_\_\_ CROP 418 – Toxic Plants in PNW Pastures (1) (*E-campus only*)  
\_\_\_\_\_ FES 365 – Issues Natural Resources Conservation (3) (*Cascades, Ecampus*)  
\_\_\_\_\_ GEO/SOIL 335 – Introduction to Water Science & Policy\* (3)  
\_\_\_\_\_ HORT/CROP 433 – Systematics & Adaptation of Vegetable Crops (4)  
\_\_\_\_\_ HORT/CROP 463 – Seed Biology (3) (*alt. year*)  
\_\_\_\_\_ MB 230<sup>5</sup> – Introductory Microbiology (4)  
\_\_\_\_\_ PBG 441 – Plant Tissue Culture (4)  
\_\_\_\_\_ PBG 450 – Plant Breeding (4)  
\_\_\_\_\_ PH 201<sup>5</sup> – General Physics (5)  
\_\_\_\_\_ SOIL 395 – World Soil Resources\* (3) (*E-campus only*)  
\_\_\_\_\_ SOIL 435 – Environmental Soil Physics (3)  
\_\_\_\_\_ SOIL 445 – Environmental Soil Chemistry (3)  
\_\_\_\_\_ SOIL 455 – Biology of Soil Ecosystems (4)  
\_\_\_\_\_ SOIL 466 – Soil Morphology and Classification (4)  
\_\_\_\_\_ SOIL 475 – Soil Resource Potentials (3)  
\_\_\_\_\_ WR 327<sup>5</sup> – Technical Writing (3)

#### Business and Economics

\_\_\_\_\_ AREC/AEC 211– Management in Agriculture (4)  
\_\_\_\_\_ AREC/AEC 221 – Marketing in Agriculture (3)  
\_\_\_\_\_ AREC/AEC 250 – Introduction to Environmental Economics & Policy (3)  
**or**  
\_\_\_\_\_ ECON 201 – Introduction to Microeconomics (4)

#### Business Electives

(Choose a minimum of 4 credits from the following courses)

\_\_\_\_\_ AREC/AEC 311 – Microecon: Tools Consumer Choice/Prod. Efficiency (4)  
\_\_\_\_\_ AREC/AEC 372 – Agricultural Cooperatives (3)  
\_\_\_\_\_ AREC/AEC 388 – Agricultural Law (4)  
\_\_\_\_\_ AREC/AEC 442 – Agricultural Business Management (4)  
\_\_\_\_\_ AREC/AEC 444 – Commodity Futures and Options Markets (4)  
\_\_\_\_\_ AREC/AEC 460 – Capital Investment Analysis using AgTools (3)  
\_\_\_\_\_ BA 463 – Family Business Management (4)

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**Experiential Learning Track (optional)** - 10 or more credits of a structured internship (CROP 410) can be substituted for 6 of the 7-8 General Elective credits and the four Business Electives credits. This will allow you to use an entire term for internship work.

**Research Track (optional)** – suggested elective classes have an <sup>s</sup> - select courses most relevant to your intended graduate school program

**Total Units (need 180)** \_\_\_\_\_ **Upper Div. Units (need 60)** \_\_\_\_\_

**Grade Requirement:** Students pursuing an option in Agronomy, under the Crop & Soil Science Major, are required to receive a grade of C or better in all CROP, CSS, ENT, HORT, PBG, and SOIL courses required within their major and option.