**Crop & Soil Science Degree Checklist**

**Name:** __________________________

**ID:** __________________________

**Entering Status:** __________________________

**University Core Requirements:**

(No single course can satisfy more than one core area)

**Writing/Health**

- WR 121 – English Composition (3)
- 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)
- Difference, Power, Dis. (3)
- 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, 245 or 251 (4) (Met by major requirements)

**Synthesis/Upper Division**

(Each course from a different department)

- Contemp. Global Issues (3) (*agronomy courses meeting requirement)
- Science, Technology, Society (3) (**agronomy courses meeting requirement)

**Major Core:**

**General Science Core**

- MTH 112 or 241 or 251 (4)
- BI 211 – Principles of Biology (4)
- BI 212 – Principles of Biology (4)
- BI 213 – Principles of Biology (4)
- CH 121 or 221 – General Chemistry (5)
- CH 122 or 222 – General Chemistry (5)
- CH 123 or 223 – General Chemistry (5)

**Orientation**

- CROP 101 – Intro. to Horticulture, Crop, Soil, and 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 (5)
- SOIL 205 – Soil Science (4)

**Experimental 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 (4)
- FOR 341 – Forest Ecology (3)
- HORT 318 – Applied Ecology of Managed Ecosystems (3)
- RNG 341 – Rangeland Ecology and Mngt. (3)

**Technology**

- HORT 414-Information Systems in Agriculture (4)

**Writing Intensive**

- CROP 325 – Ag & Envr. Predicaments: A Case Study Approach (WIC) (3)

**Capstone**

- CROP 480 – Case Studies in Cropping Systems Management (4)

**Option: Agronomy**

**Term Entering:** __________________________

**From:** __________________________

**Agronomy Core**

- CROP 200 – Crop Ecology & Morphology (3)
- CROP 300 – Crop Production in Pacific Northwest Agroecosystems (4)
- CROP 310 – Forage Production (4)
- CROP 330 – World Food Crops * (3)
- CROP 460 – Seed Production (3)
- CROP 499 (CROPS 319) – Principles of Crop Production (3)
- HORT 316 – Plant Nutrition (4)
- PBG 430 – Plant Genetics (3)
- SOIL 316 – Nutrient Cycling in Agroecosystems (4)
- ST 351 – Introduction to Statistical Methods (4)

**Agronomy Electives**

(Choose at least 6 credits from the following courses)

- BOT 321 – Plant Systematics (4)
- BOT 414 – Agrostology (4)
- BEE 439 – Irrigation Principles & Practices (4)
- CROP 199 – Special Studies: Issues in Sustainable Ag (1) (repeatably)
- CROP 420 – Seed Science & Technology (3) (E-campus only)
- CSS 320 – Principles of Oil & Fiber Crop Production (1)
- CSS 321 – Principles of Cereal Crop Production (3)
- CSS 322 – Principles of Potato Production (1)
- CSS 418 – Toxic Plants in PNW Pastures (1) (E-campus only)
- FOR 341 – Forest Ecology (3)
- FOR 365 – Issues in Natural Resources Conservation* (3)
- GEO 335 – Introduction to Water Science & Policy** (3)
- HORT 260 – Organic Farming & Gardening (3)
- HORT 433 – Systems & Adaptation of Vegetable Crops (4) (alt. year)
- HORT 463 – Seed Biology (3) (alt. year)
- PBG 450 – Plant Breeding (4)
- RNG 341 – Rangeland Ecology and Management (3)
- SOIL 475 – Soil Resource Potentials (3)

**Business and Economics**

- AREC 211 – Management in Agriculture (4)
- AREC 221 – Marketing in Agriculture (3)
- AREC 250 – Introduction to Environmental Economics & Policy (3)
- ECON 201 – Introduction to Microeconomics (4)

**Electives in Business**

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

- AREC 300 – Applied Economic Analysis (3)
- AREC 372 – Agricultural Cooperatives (2)
- AREC 388 – Agricultural Law (4)
- AREC 468 – Crop Enterprise Budgeting (1)
- AREC 470 – Farm Budgeting & Planning (1)
- AREC 476 – Agricultural Personnel Management (2)
- BA 463 – Family Business Management (4)

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**Experimental Learning Track (optional)** - 10 or more credits of a structured internship (CROP 410) can be substituted for the six credits of Agronomy electives, and four credits of Business Electives. This would allow a student to use an entire term for internship work.

**Research Track (optional)** - these are suggested classes - select courses most relevant to your intended graduate school program

- BOT 321 – Plant Systematics (4)
- BOT 414 – Agrostology (4)
- BB 350 – Elementary Biochemistry (4)
- BOT 341 – Plant Ecology (4)
- CH 331 – Organic Chemistry (4)
- CH 332 – Organic Chemistry (4)
- CH 337 – Organic Chemistry Lab (4)
- MTH 251 – Differential Calculus (4)
- MB 230 – Introductory Microbiology (4)
- PH 201 – General Physics (5)
- WR 327 – Technical Writing (3)

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.