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) (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) (3)
_____ 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, 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 (4)
_____ BI 211, BI 212, BI 213 – Principles of Biology (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 (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: Agronomy

Term Entering: __________________________
From: __________________________

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 – Elementary Biochemistry (4)
_____ BOT 311 – Plant Systematics (4)
_____ BOT 414 – Agrostology (4)
_____ BOT 442 – Plant Population Ecology (3)
_____ BOT 480 – Photosynthesis and Photobiology (3)
_____ BOT 488 – Environmental Physiology of Plants (3)
_____ CH 331 – Organic Chemistry (4)
_____ CH 332 – Organic Chemistry (4)
_____ CH 337 – 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) (Cascade, Ecampus)
_____ GEO/SOIL 335 – Introduction to Water Science & Policy* (3)
_____ HORT/CROP 433 – Systems & Adaptation of Vegetable Crops (4)
_____ HORT/CROP 463 – Seed Biology (3) (alt. year)
_____ MB 230 – Introductory Microbiology (4)
_____ PBG 441 – Plant Tissue Culture (4)
_____ PBG 450 – Plant Breeding (4)
_____ PH 201 – 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 – 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)

Experimental 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 § - 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.