

College of Agricultural, Human, and Natural Resource Sciences

Response to University-wide Degree and Major Audit

June 2008

Interdisciplinary Programs

Degree Option	Decision	Comments
B.S. in Agricultural and Food Systems	Keep	Note: Agriculture and Food Systems (AFS) is an interdisciplinary program with five majors and seven options. The program was launched in 2006, and is in the transition stages of establishment.
AFS – Major in Agriculture and Food Systems	Keep	Retain major, but realign options as noted below.
Agri-Food Production Management:	Keep	
Agri-Food Business	Keep	
Communications:	Keep	
Technology:	Drop	
AFS – Major in Agricultural Education	Keep	Only Ag. Education training program in the state and the demand for graduates is high.
AFS – Major in Organic Agriculture Systems	Keep	Emerging area of excellence with high recruitment potential.
AFS – Major in Pest Management Systems	Drop	Low enrollment.
AFS – Major in Plant and Soils Systems	Drop	Low enrollment. Nearly identical to the cropping systems major in Crop Science and few students are enrolled in this major.
M.S. in Agriculture	Keep	This is a distance degree program that is in high demand and has the potential to expand graduate training opportunities for non-Pullman based faculty.
Ph.D. in Molecular Plant Sciences	Keep	Highly successful interdisciplinary program that serves multiple departments in CAHNRS as well as the College of Science

Department of Animal Sciences

Degree Option	Decision	Comments
B.S. in Animal Sciences Pre-veterinary Medicine/Science Animal Management	Keep	<ul style="list-style-type: none"> • Strong enrollment. • WSU is the only institution of higher education offering these degrees and it is a well respected program nationally at all levels. • Graduates at all levels have a proven track record for excellent career opportunities, placement and advancement.
M.S. in Animal Sciences	Keep	<ul style="list-style-type: none"> • Limited enrollment, but potential to increase in size in the future. • Essential to continued advancement of vision to strengthen Animal Science programs.
Ph.D. in Animal Sciences	Keep	<ul style="list-style-type: none"> • Limited enrollment, but potential to increase in size in the future. • Essential to continued advancement of vision to strengthen Animal Science programs.

Department of Apparel, Merchandising, Design and Textiles

Degree Option	Decision	Comments
B.S. in Apparel, Merchandising, Design and Textiles Merchandising Apparel Design	Keep	Strong enrollment.
M.S. in Apparel, Merchandising and Textiles	Keep	Historically limited enrollment, but recent growth. Critical component of current plan to build research program within AMDT.

Department of Community and Rural Sociology

No degree of minors offered.

Department of Crop and Soil Sciences

Degree Option	Decision	Comments
B.S. Crop Science Business and Industry Cropping Systems Science/Biotechnology Turf Management	Keep	Keep as “B.S. Crop and Soil Sciences” with three majors: <ul style="list-style-type: none"> • Turfgrass Management • Crop Biotechnology • Agronomy Current Turf Management and Science/Biotechnology options are proposed to be reconfigured into majors. Two degrees and seven options are reduced to one degree with three majors.
B.S. Soil Science Environmental Soil Management Sustainable Agriculture	Drop	Combine with Crop Science to form B.S. in Crop and Soil Sciences (see above).
M.S. in Crop Science	Keep	Retain currently, but consider for consolidation into a single plant science M.S. program (see CAHNRS AAPP recommendations).
M.S. in Soil Science	Keep	Retain currently, but consider for consolidation into a single plant science M.S. program (see CAHNRS AAPP recommendations).
Ph.D. in Crop Science	Keep	Retain currently, but consider for consolidation into a single plant science M.S. program (see CAHNRS AAPP recommendations).
Ph.D. in Soil Science	Keep	Retain currently, but consider for consolidation into a single plant science Ph.D. program (see CAHNRS AAPP recommendations).

Department of Entomology

Degree/Option	Decision	Comments
M.S. in Entomology	Keep	<ul style="list-style-type: none">• Adequate (but not strong) enrollment in recent years. Strong potential for increased enrollment.• Only M.S. in Entomology in state.
Ph.D. in Entomology	Keep	<ul style="list-style-type: none">• Adequate (but not strong) enrollment in recent years. Strong potential for increased enrollment.• Only Ph.D. in Entomology in state.

Department of Food Science and Human Nutrition (Bi-State School of Food Science)

Degree/Option	Decision	Comments
B.S. in Food Science	Keep	<ul style="list-style-type: none">• Strong enrollment.• Career opportunities for graduates in food science are excellent in food industry, academia, and government agencies.
Undergraduate Minor in Food Science	Drop	<ul style="list-style-type: none">• Low enrollment.
M.S. in Food Science	Keep	<ul style="list-style-type: none">• Strong potential enrollment.• Critical building block of new Bi-State School of Food Science.
Ph.D. in Food Science	Keep	<ul style="list-style-type: none">• Strong potential enrollment.• Critical building block of new Bi-State School of Food Science.

Department of Horticulture and Landscape Architecture

Degree + Options	Decision	Comments
BSLA (4-yr degree)	Previously dropped	Discontinued, some students still completing the requirements.
BLA (5-yr degree)	Keep	Accredited degree. Enrollment has been increasing steadily over the past few years. If trends continue, we will soon exceed 100 students in the program.
BS Hort: Environmental Hort. Fruit & Vegetable Vit. & Enology	Keep	These options are all very distinct and important for communicating opportunities to students. Students cannot readily switch between options without adding significant time to graduation, so it is important to have the options to let students know what is required when they begin the degree. Numbers in all options are expected to grow with plans outlined in A2P2. The Tree Fruit Management Option was recently (2007) dropped due to low enrollments.
M.S. in Landscape Architecture (MSLA)	Keep	The department is pursuing accreditation for the MSLA degree program as a result of increasing demand from students. Growth in graduate enrollment in LA is expected as a result of modifications to the current MSLA degree to achieve accreditation as a terminal professional degree.
M.S. in Horticulture, non-thesis	Drop	Demand for the non-thesis MS Hort Degree has historically been very low. Students desiring a non-thesis option can opt for the Master of Science in Agriculture Degree Program.
M.S. in Horticulture, thesis	Keep	There are over 140 high value horticultural commodities/industries in the state. These industries have a particularly high demand for employees with MS degrees and demand currently exceeds supply. All of our MS graduates are employed. Consider for consolidation into a single plant science M.S.

		program (see CAHNRS AAPP recommendations).
Ph.D. in Horticulture	Keep	<p>Unique within the state and a core degree program for the top 10 horticulture departments of Land Grant Universities. WSU PhD graduates in horticulture are hired directly into career positions (academic and industry), often without the need for postdoctoral training. Demand for graduates currently exceeds supply. Of the 50 Land Grant Universities, only 22 offer a doctoral degree truly in the horticulture discipline.</p> <p>Consider for consolidation into a single plant science Ph.D. program (see CAHNRS AAPP recommendations).</p>

Department of Human Development

Degree/Option	Decision	Comments
BA Human Development	Keep	<ul style="list-style-type: none"> • HD is a high enrollment, high demand major. The degree is offered in three locations: <ul style="list-style-type: none"> ○ Pullman—160 ○ DDP (taught through Pullman)—105 ○ Vancouver—116 • Job placement rates are high. In our latest alumni survey (1993-2003 graduates): <ul style="list-style-type: none"> ○ 76% of 309 alumni were in HD-related jobs ○ 12% were attending graduate school ○ 12% were working in non-HD related jobs • HD is a high quality undergraduate program. .
Option in Early Childhood (P-3) Teacher Certification	Keep	<p>Students graduating with this option receive a WA state teaching certificate with primary endorsements in both early childhood and elementary education. With this degree, therefore, they can teach in either early childhood or elementary school settings. Students with this degree are particularly well-qualified to teach in grades Kindergarten through the 3rd grade given their coursework in early childhood development, family relationships, and early childhood methods. Current enrollment is 25 students.</p>
Option in Family and	Keep	<p>Students graduating with this option receive a WA state</p>

Consumer Sciences Education		teaching certificate for home and family life education for grades four through twelve. With this degree they can teach elementary, middle school, or high school settings. There is a statewide shortage of Family and Consumer Sciences teachers, and WSU is known statewide for the quality of our FCS teacher education program. These graduates receive among the highest salaries of all HD B.A. students, and job opportunities are numerous. Current enrollment is 17 students.
MA in Human Development	Keep	<ul style="list-style-type: none"> • The innovative, prevention-science M.A. program is one of few such programs in the nation and the only one in the state. • Job placement rates are high and current trends show that demand for our M.A. graduates will continue in the future. • The program has shown significant growth since the major curriculum revision in 2001. • The graduate program is critical for the future development of the entire Department of Human Development in that it supports faculty teaching, research, and outreach.

Department of Interior Design

Degree/Option	Decision	Comments
B.A. in Interior Design	Keep	<ul style="list-style-type: none"> • WSU is the only institution in the state of Washington to offer an accredited baccalaureate degree in Interior Design. • The Interior Design program has been ranked nationally for the last four years by <i>Design Intelligence</i> magazine (the only source that attempts to rank design programs) for its ability to deliver a program that prepares students for professional practice. In 2005, the program was ranked 8th; the following three years it was ranked 19th (2006), 19th (2007), and 20th (2008). ID has a consistent enrollment of approximately 135-140 students. • Job placement rates are high.
MA Interior Design	Keep	<ul style="list-style-type: none"> • WSU is the only institution in the state of Washington to offer a graduate degree in Interior Design.

Minor in Interior Design Studies	Drop	<ul style="list-style-type: none"> The minor in Interior Design Studies was instituted in 2007. The intent of the minor was to: (1) provide those students who did not certify into interior design with a track that would allow them to work in the industry as retail salespersons or manufacturer representative, and (2) encourage interdisciplinary interaction. No one has taken advantage of this option nor do students express an interest in it.
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Department of Natural Resources

Degree/Option	Decision	Comments
B.S. In Natural Resource Sciences, Major in Forestry	Drop	<ul style="list-style-type: none"> Drop based upon AAPP Provost's Decision report. Low enrollment for several years.
B.S. In Natural Resource Sciences, Major in Natural Resources	Keep	<ul style="list-style-type: none"> Robust enrollment. Relatively new degree with significant flexibility.
B.S. In Natural Resource Sciences, Major in Wildlife Ecology	Keep	<ul style="list-style-type: none"> Robust enrollment Complements a high quality research program.
Minor in Forestry	Drop	<ul style="list-style-type: none"> Low enrollment
Minor in Natural Resources	Drop	<ul style="list-style-type: none"> Low enrollment
Minor in Wildlife Ecology	Keep	<ul style="list-style-type: none"> Very popular minor, with substantial long-term enrollment.
Minor in Rangeland Ecology	Keep	<ul style="list-style-type: none"> Useful credential for wildlife students seeking employment in federal land management agencies
MS in Natural Resource Sciences	Keep	<ul style="list-style-type: none"> MS students are in strong demand by all employers and graduates often receive comparatively high salaries in

(Thesis)		<p>jobs with a strong career track.</p> <ul style="list-style-type: none"> • In addition, other natural resource programs around the country rarely, if ever, admit students directly into a PhD program without a Master of Science degree.
MS in Natural Resource Sciences (Non-Thesis)	Drop	<ul style="list-style-type: none"> • At the present time, the degree is seldom used and has limited faculty support. • The degree has probably outlived its usefulness and should be eliminated as it tends consume faculty time that could be more effectively devoted to students pursuing a MS in Natural Resource Sciences (Thesis) or PhD students.
PhD in Environmental and Natural Resource Sciences	Keep	<ul style="list-style-type: none"> • Offered in conjunction with the School of Earth and Environmental Sciences • This degree has been critical to the growth of the department's research productivity. • The degree was identified as having the potential for further growth as the university places more emphasis on multidisciplinary PhD programs in a report to the Dean of Graduate School last fall. • This degree is a critical building block for the proposed school resulting from the merger of the departments of Natural Resource Sciences, Community and Rural Sociology and the School of Earth and Environment and obviously should be retained and strengthened.

Department of Plant Pathology

Degree/Option	Decision	Comments
M.S. in Plant Pathology	Keep	<ul style="list-style-type: none"> • Adequate (but not strong) enrollment in recent years. Strong potential for increased enrollment. • Only M.S. in Plant Pathology in state. • Retain currently, but consider for consolidation into a single plant science M.S. program (see CAHNRS AAPP recommendations).
Ph.D. in Plant Pathology	Keep	<ul style="list-style-type: none"> • Adequate (but not strong) enrollment in recent years. Strong potential for increased enrollment. • Only Ph.D. in Plant Pathology in state. • Retain currently, but consider for consolidation into a single plant science Ph.D. program (see CAHNRS AAPP recommendations).

School of Economic Sciences

Degree/Option	Decision	Comments
B.S. in Economic Sciences	Add	<p>The School of Economics Sciences currently offers four undergraduate degrees, including a B.A. in Economics, a B.S. in Agricultural Economics and Management, a B.S. in Agribusiness Economics and Management, and a B.S. in Environmental and Resource Economics and Management. The SES faculty recently reviewed the content of each of the degree programs and has concluded that the degrees are sufficiently interrelated, in the sense of sharing common training in the discipline of economics and quantitative methods, such that fully separate bachelors' degrees are neither warranted nor defensible. As such, addressing the directive of the Provost to examine degree options and to seek degree consolidations, SES is proposing to reduce its undergraduate degree options from four to one. The one degree will be entitled "B.S. in Economic Sciences". The degree will be enriched by a number of field areas provided by a menu of courses that relate to areas of economic application.</p>
B.A. in Economics	Drop	See "B.S. in Economic Sciences" above.
B.S. in Agricultural Economics and Management	Drop	See "B.S. in Economic Sciences" above.
B.S. in Agribusiness Economics and Management	Drop	See "B.S. in Economic Sciences" above.
B.S. in Environmental and Resource Economics	Drop	See "B.S. in Economic Sciences" above.
Minor in Economics	Keep	Continues to attract a significant number of students.

Minor in Agribusiness	Keep	Lightly enrolled. Appears to be a candidate for possible elimination in the near term future, however the faculty wishes to analyze, refine, and possibly promote this area prior to making a final decision to drop the minor
Minor in Agricultural Economics and Management	Keep	Continues to attract a significant number of students.
Minor in Environmental and Resource Economics and Management	Keep	The ENREM area is a relatively new area of study in the UG program, and it is felt that the School needs to analyze, refine, and possibly promote this area further before making a decision to fully drop this area of minor study.
Minor in Sustainable Development	Keep	Continues to attract a number of students, and faculty efforts related to this minor are also partially supported by a significant endowment provided to SES for teaching and research in this sustainable development area
Minor in Business Economics	Drop	Very limited enrollment No longer central to the revised focus and objectives of the new School.
M.A. in Applied Economics	Keep	Reduced number of Master's degrees from three to one during formation of SES.
Ph.D. in Economics	Keep	During the four year history of SES, there has been a notable shift in the distribution of PhD degrees granted in favor of the PhD in Economics. However, both degree options remain robustly enrolled, as is evident from the AAPP student data, and moreover both degree options remain significant attractants for new graduate students to the School of Economic Sciences.
Ph.D. in Agricultural Economics	Keep	See "Ph.D. in Economics" above.

Department of Statistics

Degree/Option	Decision	Comments
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Undergraduate Minor in Statistics	Drop	Low enrollment.
Graduate Minor in Statistics	Keep	Strong enrollment. Complement to several M.S. and Ph.D. programs.
M.S. in Statistics	Keep	Strong enrollment. Complement to several M.S. and Ph.D. programs