

**GRADUATE MAJOR CHANGE BULLETIN NO. 6**  
**Spring 2012**

The requirements and courses listed below reflect the graduate major curricular changes approved by the Catalog Subcommittee and the Graduate Studies Committee since approval of the last Graduate Major Change Bulletin. All new and revised courses are printed in their entirety under the headings Proposed and Current, respectively. The column to the far right indicates the date each change becomes effective.

Prefix	Course Number	New Revise Drop	Current	Proposed	Effective Date
Agriculture, revise MS in Agriculture (non-thesis option)	--N/A--	Revise	<p><b>Non-Thesis Option:</b>            Components of the non-thesis option (a minimum of 30 credits* is required):            26 hours minimum of graded course work:            17 hours minimum of graded course work at the 500-level, which can include 3 hours maximum of seminar courses; and up to 9 hours maximum of non-graduate graded course work credit (300 – 400 level only)            4 hours minimum of AGRI 702 that includes:            Independent project and paper (AGRI 702 credits)            Note that every semester all full-time MS in Ag students are required to enroll in a minimum of one credit hour of AGRI 702 credit            Part-time students are not required to enroll in AGRI 702 every semester but still must meet the 4-credit minimum for a non-thesis master's degree            Comprehensive written exam. This is a four-hour written examination during which the student answers questions related to their discipline without the aid of notes, books or other reference materials.            Content questions are</p>	<p><b>Non-Thesis Option:</b>            Components of the non-thesis option (a minimum of 30 credits* is required):            26 hours minimum of graded course work:  <u>Required Core: (6 credits)</u>  <u>Stats 412 Statistical Methods in Research I (3 credits)</u>  <u>AGRI 587 Research in Agriculture (3 credits)</u>            17 hours minimum of graded course work at the 500-level, which can include 3 hours maximum of seminar courses; and up to 9 hours maximum of non-graduate graded course work credit (300 – 400 level only)            4 hours minimum of AGRI 702 that includes:            Independent project and paper (AGRI 702 credits)            Note that every semester all full-time MS in Ag students are required to enroll in a minimum of one credit hour of AGRI 702 credit            Part-time students are not required to enroll in AGRI 702 every semester but still must meet the 4-credit minimum for a non-thesis master's degree            Comprehensive written exam. This is a four-hour written examination during which the student answers</p>	8-12

			<p>developed by the student's graduate committee and will vary by program and coursework focus. Students must pass the comprehensive exam to be qualified to take the final exam.</p> <p>Two-part final exam (requires the student to be registered for 2 credits of AGRI 702 in the term in which the exam is held): An oral presentation to the student's graduate committee covering the projects and materials developed during both practicum (AGRI 501, if taken) and research credits (AGRI 702), An oral exam following the oral presentation that allows committee members to further explore issues related to the presentation, independent project, comprehensive written exam, and/or course content.</p>	<p>questions related to their discipline without the aid of notes, books or other reference materials. Content questions are developed by the student's graduate committee and will vary by program and coursework focus. Students must pass the comprehensive exam to be qualified to take the final exam.</p> <p>Two-part final exam (requires the student to be registered for 2 credits of AGRI 702 in the term in which the exam is held): An oral presentation to the student's graduate committee covering the projects and materials developed during both practicum (AGRI 501, if taken) and research credits (AGRI 702), An oral exam following the oral presentation that allows committee members to further explore issues related to the presentation, independent project, comprehensive written exam, and/or course content.</p>	
Agriculture, revise MS in Agriculture (thesis option)	--N/A--	Revise	<p><b>Thesis Option:</b> Components of the thesis option (a minimum of 30 credits* is required): 21 hours minimum of graded coursework: 15 hours minimum of graded coursework at the 500-level, which can include 3 hours maximum of seminar courses; and up to 6 hours maximum in non-graduate graded coursework (300 – 400</p>	<p><b>Thesis Option:</b> Components of the thesis option (a minimum of 30 credits* is required): 21 hours minimum of graded coursework: <u>Required Core: (6 credits)</u> <u>Stats 512 Statistical Methods in Research II (3 credits)</u> <u>AGRI 587 Research in Agriculture (3 credits)</u> 15 hours minimum of graded coursework at the</p>	8-12

			<p>level only)  4 hours minimum of AGRI 700 credit that includes:  Preparation of a formal thesis/research paper (AGRI 700 credits)  Note that every semester all full-time MS in Ag students are required to enroll in a minimum of one credit hour of AGRI 700  Part-time students are not required to enroll in AGRI 700 every semester but still must meet the 4-credit minimum for a thesis master's degree  Two-part final exam (requires the student to be registered for 2 credits of AGRI 700 in the term when the exam is held):  Public seminar where the student presents the results of the research project  Oral exam that focuses on defense of the research project, attended by all committee members  *Thesis-option students must meet the minimum credit requirements for graded (21 credits) and 700-level (4 credits) coursework as well as the 30 credit minimum for the program. The remaining 5 credits needed to reach the 30 credit minimum can be any combination of graded and/or 700-level coursework as determined by the student and their committee.</p>	<p>500-level, which can include 3 hours maximum of seminar courses; and up to 6 hours maximum in non-graduate graded coursework (300 – 400 level only)  4 hours minimum of AGRI 700 credit that includes:  Preparation of a formal thesis/research paper (AGRI 700 credits)  Note that every semester all full-time MS in Ag students are required to enroll in a minimum of one credit hour of AGRI 700  Part-time students are not required to enroll in AGRI 700 every semester but still must meet the 4-credit minimum for a thesis master's degree  Two-part final exam (requires the student to be registered for 2 credits of AGRI 700 in the term when the exam is held):  Public seminar where the student presents the results of the research project  Oral exam that focuses on defense of the research project, attended by all committee members  *Thesis-option students must meet the minimum credit requirements for graded (21 credits) and 700-level (4 credits) coursework as well as the 30 credit minimum for the program. The remaining 5 credits needed to reach the 30 credit minimum can be any combination of graded and/or 700-level coursework as determined by the student and their committee.</p>	
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BIOLOGY	572	New	--N/A--	<b>Quantitative Methods and Statistics in Ecology</b> 4 (3-3) Course Prerequisite: Instructor permission. Philosophy and methods of formulating hypotheses as mathematical models and confronting them with data.	8-12
COM	502	New	--N/A--	<b>Consumer Analysis and Brand Development</b> 3 Consumer analysis and brand development; skills to make strategic communication campaigns successful.	5-12
COUN PSY	502	New	--N/A--	<b>Social Psychology Foundations in Educational and Counseling Psychology</b> 3 Social psychology with a special emphasis on the relevance to education and counseling psychology.	8-12
COUN PSY	503	New	--N/A--	<b>Community Counseling</b> 3 Course Prerequisite: Graduate student in community counseling program. Counseling in community settings.	8-12
Educational Leadership and Counseling Psychology, change name in Counseling		Revise	MA in Education with a specialization in Counseling Psychology	MA in Education with a specialization in Counseling	8-12
Entom	555	New	--N/A--	<b>Agricultural Chemical Technology for Crop Protection &amp; Production</b> 3 Mechanistic examination of agricultural chemical technology; synthetic and biological pesticides and fertilizers; mechanism of biological activity; deployment; management.	8-12
FS	531	New	--N/A--	<b>Advanced Food Safety and Quality</b> 3 Course	8-12

				Prerequisite: Admission to MS in Agriculture program. Analysis of the safety, regulation, protection, and quality of processed food products and their manufacturing environment.	
MATH	534	New	--N/A--	<b>Theories of Learning in Mathematics 3</b> Math learning theories, including behaviorism, information processing, constructivism, situated cognition, communities of practice; influence on teaching and learning mathematics.	8-12
MATH	535	New	--N/A--	<b>Research Paradigms in Mathematics Education 3</b> Course Prerequisite: MATH 534. Current research paradigms in math education research; critique research designs used in current mathematics education research article; design and carry out a research project.	8-12
MATH	575	New	--N/A--	<b>Asset Pricing in Financial Engineering 3</b> Mathematical methods for various models on valuation of stocks and options, with rigorous mathematical analysis on pricing and hedging techniques. Recommended preparation: Advanced calculus and some knowledge on differential equations.	5-12
MATH	576	New	--N/A--	<b>Quantitative Risk Management 3</b> Fundamental concepts in modern risk theory and mathematical methods in quantitative risk management; coherent risk measures, volatility modeling, multivariate	5-12

				dependence analysis using copulas, risk aggregation and allocation, and extreme value theory.	
MEDS	505	Revise	Medical Preceptorship 1 Prereq WWAMI student. First-year medical students gain experience and insight into medical practice situations; students are stationed in physician offices at WWAMI sites. S, F grading.	<b>Medical Preceptorship 2</b> (0-4) Course Prerequisite: WWAMI students only. Medical Students work in local clinics, physicians' offices, emergency rooms, hospitals; 4 hours minimum per week. Cooperative course jointly taught by WSU and UI (MedS 505). S, F grading.	8-12
Mgmt	585	Revise	Negotiation Skills 3 Graduate counterpart of MgtOp 485; additional requirements. Credit not granted for both MgtOp 485 and 585.	<b>(MgtOp) Negotiation Skills</b> for Professionals 3 Bargaining skills across a broad range of settings; experiential work	8-12
Nutrition and Exercise Physiology, revise MS (CPDNEP) non-thesis option		Revise	Coordinated Program in Dietetics, (38 credits) NEP 501 Community Supervised Practice (5 cr) NEP 505 Graduate Seminar (2 -3 cr)* *May be repeated for credit NEP 520 Research Methods (4 cr) NEP 537 Advanced Medical Nutrition Therapy (3 cr) NEP 540 Clinical Supervised Practice (10 cr) NEP 551 Management Practices in Food Service (4 cr) NEP 573 Nutrition and Exercise in the Community (2 cr) Electives (3 cr): NEP 510 Foundations in Cellular Regulation (3 cr) NEP 580 Advanced Topics in Exercise Physiology (3 cr) NEP 585 Clinical Exercise Physiology (4 cr)	Coordinated Program in Dietetics, (38 credits) NEP 501 Community Supervised Practice (5 cr) NEP 505 Graduate Seminar (2 -3 cr)* *May be repeated for credit NEP 520 Research Methods (4 cr) NEP 537 Advanced Medical Nutrition Therapy (3 cr) NEP 540 Clinical Supervised Practice (10 cr) NEP 551 Management Practices in Food Service (4 cr) NEP 573 Nutrition and Exercise in the Community (2 cr) Electives (3 cr): NEP 510 Foundations in Cellular Regulation (3 cr) NEP 580 Advanced Topics in Exercise Physiology (3 cr) NEP 585 Clinical Exercise Physiology (4 cr)	8-12

			NEP 702 Cumulative Exam (5 cr)	NEP 702 Cumulative Exam (5 cr) <u>or see list for other options</u>	
NEP	578	New	--N/A--	<b>Biomedical Statistics 3</b> Research process; techniques for conducting health services research and evaluation, critique published health services research and collect, utilize, and evaluate primary and secondary data. (Crosslisted course offered as PHARMSCI 578, NEP 578).	8-12
NURS	524	New	--N/A--	<b>Foundations of Methodological Applications for Health Sciences 2</b> Qualitative and quantitative methods in health care; research, statistics, and interpretation language.	5-12
PHARMSCI	578	New	--N/A--	<b>Biomedical Statistics 3</b> Research process; techniques for conducting health services research and evaluation, critique published health services research and collect, utilize, and evaluate primary and secondary data. (Crosslisted course offered as PHARMSCI 578, NEP 578).	8-12
PharS	579	New	--N/A--	<b>Advances in Pharmaceutical Sciences 3</b> Diverse concepts regarding advances in pharmaceutical sciences in the areas of drug discovery, targeted drug actions and reactions, molecular mechanisms of drug actions and nutraceuticals.	8-12
PharS	580	New	--N/A--	<b>Gene and Stem Cell Therapies 3</b> Stem cell therapeutics, gene transfer	8-12

				vectors and methods for isolating and generating stem cells; stem cell therapeutics, presentation skills and evaluation of primary literature.	
SOC	526	New	-- N/A --	<b>Experimental Methods 3</b> May be repeated for credit; cumulative maximum 12 hours. Course Prerequisite Soc 521. Experimental methods including design and analysis, settings, manipulations, measures and human subjects considerations.	8-12