GRADUATE MAJOR CHANGE BULLETIN NO. 6
Spring 2011

Approved by Faculty Senate 4/14//11

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
American Studies, revise major requirements inPh.D.		Revise	The Doctor of Philosophy Degree (Ph.D.) in American Studies at Washington State University requires a previous Master's Degree in American Studies~~, History, English, Ethnic Studies, Women's Studies~~, or a related discipline in the social sciences or the humanities. The degree aims to achieve both breadth of knowledge in US cultural history, and depth of knowledge in an interdisciplinary area of specialization. The Graduate School requires that the Ph.D. program include a total of seventy-two (72) credit hours beyond the BA, including transfer credits ~~(up to 17 from an MA degree),~~ research, and dissertation credits. A minimum total of ~~thirty-four (34) must be~~ graded credit hours in graduate courses. The distribution of required courses and all other requirements are indicated below. A. CORE REQUIREMENTS ~~The ENTIRE CORE COURSE SEQUENCE is required for all~~ Ph.D. students: B. EMPHASIS AREA ~~-- fifteen (15)~~ graded credit hours: C. AREA OF SPECIALIZATION -- ~~twelve (12)~~ graded credit hours:	The Doctor of Philosophy Degree (Ph.D.) in American Studies at Washington State University requires a previous Master's Degree in American Studies or a related discipline in the social sciences or the humanities. The degree aims to achieve both breadth of knowledge in US cultural history, and depth of knowledge in an interdisciplinary area of specialization. The Graduate School requires that the Ph.D. program include a total of seventy-two (72) credit hours beyond the BA, including transfer, research, and dissertation credits. The American Studies program requires a minimum total of thirty (30) graded credit hours in graduate courses. The distribution of required courses and all other requirements are indicated below. A. CORE REQUIREMENTS Ph.D. students in American Studies will take the following nine (9) graded credit hours of core requirements in the first year of their graduate coursework: Am St 505, 506 and 507. B. ELECTIVES Ph.D. students in American Studies will also take twelve (12) graded credit hours of interdisciplinary electives form the following set of courses: Am St 520, 521, 522, 523, 524, 525, 526, 527, 590, and 596. C. AREA OF SPECIALIZATION	8-11

				In addition to the core and elective requirement, all Ph.D. students take nine (9) graded credit hours in an area of specialization.	
American Studies, revise major requirements in MA		Revise	The program for the Master of Arts (M.A.) in American Studies at Washington State University is designed to provide a broad background in American Culture Studies. ~~In consultation with their advisor, candidates are expected to assemble a range of courses and independent study in American ethnic studies, literature, history, women's studies, and related fields that will provide them with a broad knowledge of US culture and of current approaches to cultural interpretation.~~ The M.A. program, to be filed with the graduate school, must include a minimum of thirty (30) post-BA credit hours, at least twenty-six (26) of which must be in graded courses. A. CORE REQUIREMENTS: ~~In addition to AMST 500 Colloquium, the one credit course taken every semester while enrolled, MA students take twelve (12) graded core credits:~~ ~~B.~~ ~~EMPHASIS or~~ AREA OF SPECIALIZATION: ~~Additional courses totaling fifteen (15) graded credit hours for portfolio option students, or twelve (12) graded credit hours for thesis option students, must support either an EMPHASIS AREA focus or an interdisciplinary AREA OF SPECIALIZATION focus.~~ ~~C.~~ M.A. THESIS or PORTFOLIO: M.A. students choose either to write a master's thesis or they put together a portfolio of papers ~~C1~~. THESIS OPTION: ~~1) TRADITIONAL THESIS:~~ Students taking the thesis option write a thesis (typically 75-125 pages) synthesizing material on an American Studies topic they choose in consultation with their degree	The program for the Master of Arts (M.A.) in American Studies at Washington State University is designed to provide a broad background in American Culture Studies. Students studying for the MA will take nine (9) hours of core requirements, twelve (12) hours of electives and nine (9) hours of an area of specialization which will provide them with a broad knowledge of US culture, current approaches to cultural analysis, and the foundational background for future scholarly and professional work. The graduate school requires that the MA program include a minimum of thirty (30) post-BA credit hours including transfer, research and thesis credits. The American Studies MA requires a minimum total of thirty (30) graded credit hours in graduate course for completion of its program. The distribution of courses and all other requirement are listed below. A. CORE REQUIREMENTS: MA students in American Studies will take the following nine (9) graded credit hours of core requirements in the first year of their graduate coursework: Am St 505, 506 and 507. B. ELECTIVES: MA students in American Studies will also take twelve (12) graded credit hours of interdisciplinary electives from the following set of courses: Am St 520, 521, 522, 523, 524, 525, 526, 527 and 590. C. AREA OF SPECIALIZATION: Additional courses totaling nine (9) graded credit hours for MA students in American Studies will be devoted to establish an Area of Specialization.	8-11

			committee ~~2) ELECTRONIC/MULTIMEDIA THESIS:~~ ~~Increasingly the World Wide Web and other elements of electronic communication are reshaping the possibilities for scholarly work and publishing. Recognizing this, we offer a unique "electronic/multimedia " option within the M.A. that allows students to take advantage of the capabilities of electronic communication to enhance their thesis.~~ ~~3) CREATIVE THESIS:~~ ~~Students who can demonstrate that their intellectual work can be presented best in a "creative" format, using poetry, fiction, film or another medium, may do so with consent of their degree committee and the Advisory Committee~~ ~~C~~2. PORTFOLIO OPTION: Students who choose the portfolio instead of any of the thesis options must complete the following: 1. One publishable paper based upon graduate level research, preferably a paper which has been presented at a conference. A short cover letter for the paper should identify possible venues for publication as well as locate the paper's relationship to the student's overall academic preparation for presenting such a paper. The paper may be a revised seminar paper from work in core classes, a paper concerning the student's area of emphasis, or a general seminar paper or academic writing project prepared for publication. It is expected that selection and preparation of the paper will be accomplished over time in consultation with members of the student's degree committee, and ~~2.~~ A position paper of 8-10 pages, written after completing the core courses	D. M.A. THESIS or PORTFOLIO: M.A. students choose either to write a Master's thesis a portfolio. D1. THESIS OPTION: Students taking the thesis option write a thesis (typically 75-125 pages) synthesizing material on an American Studies topic they choose in consultation with their degree committee D2. PORTFOLIO OPTION: Students who choose the portfolio instead of any of the thesis options must complete the following: 1. One publishable paper based upon graduate level research, preferably a paper which has been presented at a conference. A short cover letter for the paper should identify possible venues for publication as well as locate the paper's relationship to the student's overall academic preparation for presenting such a paper. The paper may be a revised seminar paper from work in core classes, a paper concerning the student's area of emphasis, or a general seminar paper or academic writing project prepared for publication. It is expected that selection and preparation of the paper will be accomplished over time in consultation with members of the student's degree committee, and 2. A position paper of 8-10 pages, written after completing the core courses required of master's students. In the position paper the student will focus on their area of specialization and clarify how their research compliments or expands upon American Cultural Studies as a field.	

			required of master's students. In the position paper, the student will focus either on an area of ~~emphasis or an area~~ of specialization, ~~not both, and clarify how course work in the core compliments or expands upon the work completed in an area of specialization or emphasis.~~		
Am St	505	New	**--N/A--**	**Pro Seminar in American Cultural Studies** 3 Prereq graduate standing. Critical theoretical engagement within an interdisciplinary field; emphasis on professionalism.	8-11
Am St	506	New	**--N/A--**	**Frameworks in American Cultural Studies** 3 Prereq graduate standing. Critical framework for intellectual, theoretical, and political genealogies within American Studies.	8-11
Am St	507	New	**--N/A--**	**Contemporary Practices in American Cultural Studies** 3 Prereq graduate standing. Overview of contemporary practices in American cultural studies; important concepts and major insights within the field.	8-11
Am St	526	Revise	**Contemporary Theories of Race and Ethnicity** 3 Prereq graduate standing. Major theoretical readings and key recent texts in U.S. and transnational ethnic studies scholarship.	**(503) Contemporary Theories of Race and Ethnicity** 3 Prereq graduate standing. Major theoretical readings and key recent texts in the US and transnational ethnic studies scholarship.	8-11
Am St	527	Revise	**Contemporary Feminist Theories and Practices** 3 Prereq graduate standing. Major theoretical readings and key recent texts in U.S. and transnational feminist scholarship.	**(504) Contemporary Feminist Theories and Practices** 3 Prereq graduate standing. Major theoretical readings and key recent texts in the US and transnational feminist scholarship.	8-11
Biol	565	New	**--N/A--**	**Ecology and Evolution of Disease** 3 Rec Biol 372 and Biol	8-11

				405. Disease ecology and evolution with a focus on current literature.	
C E	580	Revise	**Graduate Seminar** 1 May be repeated for credit; cumulative maximum ~~2~~ hours. Lectures and reports on current developments in research and practice.	**Gradate Seminar** 1 May be repeated for credit; cumulative maximum 4 hours. Lectures and reports on current developments in research and practice.	8-11
Chem	593	Revise	**Seminar in Physical Chemistry ~~and Materials Science~~** 1 May be repeated for credit; cumulative maximum 6 hours. Prereq graduate standing. Presentation and discussion of topics in physical chemistry and materials science taken from research in progress or current literature.	**Seminar in Physical Chemistry** 1 May be repeated for credit; cumulative maximum 6 hours. Prereq graduate standing. Presentation and discussion of topics in physical chemistry taken from research in progress or current literature.	8-11
CoPsy	535	Revise	**Master's Internship in School Counseling** ~~V 4-8~~ May be repeated for credit; cumulative maximum ~~8~~ hours. Prereq CoPsy 512, 513, 518; 515 or c//; 527 or c//; or by interview only. Supervised experience in the application of guidance and counseling theory and techniques in a school setting. S, F grading.	**Master's Internship in School Counseling** 4 (3-3) May be repeated for credit; cumulative maximum 16 hours. Prereq CoPsy 512, 513, 518; 515 or c//; 527 or c//; or by interview only. Supervised experience in the application of guidance and counseling theory and techniques in a school setting. S, F grading.	8-11
EconS	505	New	**--N/A--**	**Economics for Agricultural Decision Making** 3 Prereq admission to the MS in Agriculture. Managerial economics with specific applications to agricultural issues.	8-11
Entom	539	Revise	~~**Taxonomic Entomology** V 2 (2-0) to 4 (2-6) Prereq graduate standing. Identification of insect orders and families. Insect collection required.~~	**Insect Identification** 4 Survey of approximately 200 major families; collecting and preservation techniques. Cooperative course taught by UI (ENT 540); open to WSU students.	8-11
M E	502	New	**--N/A--**	**Sustainability Assessment for Engineering Design** 3 Prereq degree in engineering or permission of the instructor. Sustainability assessment, including environmental, societal, and economic	8-11

				assessment, in design and planning for entire product life cycle.	
Mat S	505	Revise	**Advanced Materials Science** 4 ~~Broad baseline in materials science including relationships between structure and properties.~~	**Advanced Materials Science** 3 Same as MSE 505.	8-11
Mat S	593	New	**Seminar in ~~Physical Chemistry and~~ Materials Science** 1 May be repeated for credit; cumulative maximum 6 hours. Prereq graduate standing. ~~Same as Chem 593.~~	**Seminar in Materials Science** 1 May be repeated for credit; cumulative maximum 6 hours. Prereq graduate standing. Presentation and discussion of topics in materials science taken from research in progress or current literature.	8-11
Math	550	New	**--N/A--**	**Introduction to Algebraic Geometry** 3 Prereq graduate standing. Affine and projective varieties, morphisms, functions on varieties, birational maps, applications. Cooperative course taught by UI, open to WSU students (Math 558).	8-11
Math	551	New	**--N/A--**	**Ring Theory** 3 Prereq graduate standing. Rings, ideals, modules, commutative algebra. Cooperative course taught by UI, open to WSU students (Math 557).	8-11
MBioS	505	New	**-- N/A --**	**Cell Biology of Disease** 3 Prereq MBioS 301 or 303. Graduate-level counterpart of MBioS 405; additional requirements. Credit not granted for both MBioS 405 and 505.	1-12
MBioS	580	New	**--N/A--**	**Science Information Literacy** 2 Efficient methods to locate and effectively use a wide variety of information resources that will be useful in the work world.	1-12
Molecular Plant Sciences, revise requirements in Ph.D.		Revise	Graduate School course requirements for a Doctoral Degree: • 72 hours minimum total credits • ~~34~~ hours minimum graded course work • 20 hours minimum 800-level research credits ~~• 9 hours maximum of non-graduate courses (300 and 400 level)~~	Graduate School course requirements for a Doctoral Degree: • 72 hours minimum total credits • 15 hours minimum graded course work • 20 hours minimum 800-level research credits • Audited courses cannot be applied	8-11

			~~• 15 hours maximum 600-level special projects/independent study~~ • Audited courses cannot be applied Molecular Plant Sciences graded course work requirements for a Doctoral Degree: ~~(24 credits total)~~ ~~MBioS 513, MBioS 514, Biol 509, Biol 537, MBioS 503,~~ ~~MPS 515, MPS 570, MPS 571~~ ~~Other courses may be substituted for core courses with the approval of your advisor, committee, and the program chair.~~ ~~Of the remaining 10 credits needed (about 4 courses), the student should take at least two courses that emphasize plant biology (such as molecular plant development, plant reproduction, plant molecular genetics, etc.). The list below is not comprehensive and additional courses may be used as electives with the approval of your advisor and committee.~~ ~~Highly recommended courses:~~ ~~MPS 561, MPS 587 and MBioS 504~~	Molecular Plant Sciences graded course work requirements for a Doctoral Degree: Required (Pass/Fail): MPS 570, MPS 571, MPS 515 Graded Course Work (15 credit minimum of 500-level coursework) MPS 525 Two Courses (minimum) from: Biol 513, Biol 519, Biol 531, Biol 537, CropS 505, MPS 587 Six credits (minimum) from: Biochemistry/Biophysics/Chemistry Chem 531, MBioS 465, MBioS 578, Phys 566 Plant Physiology/Development/Structure-function Biol 504, Crops 508, Hort 516 Plant biology/Environment Biol 509, Biol 512 Molecular Mechanisms of Plant Development 3 Biol 517, Biol 540, Biol 560, Biol 569, CropS 411, CropS 513, Crops 539, Pl P 513, Hort 503, Hort 518 Hort 533, Hort 590 Pl P 511, Pl P 514 Genetics/Cell Biology Biol 521, CropS 503, CropS 504 Hort (plant breeding), E Mic 586 MBioS 426, Pl P 535 Coursework options need to be discussed with the graduate student's committee and will depend on the student's interest/research areas. It is expected to include additional classes depending on the individual student's needs.	
MPS	525	New	**--N/A--**	**Plant Molecular Genetics** 3 Prereq graduate standing. Introduction to plant genome organization and gene expression while acquiring knowledge of modern molecular techniques and experimental approaches.	8-11
MSE	505	Revise	**Advanced Materials Science** ~~4~~ ~~Same as Mat S 505.~~	**Advanced Materials Science** 3 Broad baseline in materials	1-11

				science including relationships between structure and properties.	
NATRS	515	New	**-- N/A --**	**Large River Fisheries** 2 Management issues and problems in large river fisheries in North America and globally; importance of flood plains; ecological bases for management actions in large rivers; river fisheries in the context of multiple use of large rivers. Cooperative course taught by UI, open to WSU students (FISH 515).	8-11
Nurs	529	New	**-- N/A --**	**Analytical Seminar for Health Science** 3 Prereq Nurs 527, 528; admission to graduate nursing program. In-depth research methods used for health science research.	8-11
PharS	573	New	**--N/A--**	**Principles of Pharmacokinetics and Toxicokinetics** 3 Pharmacokinetic, pharmacodynamic, and toxicokinetic systems; mathematical model development utilizing common kinetic systems.	8-11
Pl P	521	Revise	**General Mycology** 4 (2-6) Graduate standing. The structure, life histories, classification, and economic importance of the fungi.	**General Mycology** 4 (2-6) Graduate standing. The structure, life histories, classification, and economic importance of the fungi. Cooperative course taught by WSU, open to UI students (PLSC 521).	8-11
SoilS	521	New	**--N/A--**	**Physical Chemistry of Soils** 3 Prereq by instructor permission. Chemical equilibrium and kinetics of soil solution speciation, mineral precipitation and dissolution, adsorption and partitioning reactions, and ion exchange.	1-12
T & L	533	New	**--N/A--**	**Middle Level Mathematics Pedagogy and Philosophy** 3 Middle-school philosophy; understanding of effective	8-11

				standards and research-based instructional methods.	