

Recommendation of the L&S Academic Policies and Curriculum Committee to Revise the L&S Degree Requirements

Recommendation:

That the Faculty of the College of Letters and Science revise the requirements for its Bachelor of Arts (BA) and Bachelor of Science (BS) degrees as follows. These requirements would apply to all new freshmen who first enroll in courses during the fall 2019 semester.

I. English Composition Requirement

A. BA degree

Current	Proposed
Students must fulfill the English Writing Requirement by completing English 102 with “C” or higher; placement beyond English 102 on EPT.	Students must fulfill the English Composition Requirement by: <ol style="list-style-type: none">1. Attaining a suitable score on the English Placement Test (or other assessment as determined by the English Department);2. completing English 102 with a grade of C or higher;3. transferring in a course that is equivalent to English 102 with a grade of C or higher (course must be at least 2.5 equivalent credits); or4. transferring in a course that is equivalent to a UWM higher-level expository writing course, with a grade of C or higher (course must be at least 2.5 equivalent credits).

This requirement will prepare students to achieve the following outcomes:

1. Rhetorical Knowledge: Students will analyze contexts and audiences in order to comprehend and create a variety of academic texts.
2. Critical Thinking, Reading, and Composing: Students will analyze, synthesize, interpret, and evaluate ideas, information, situations, and texts.
3. Composing Process: Students will develop an array of composing strategies and processes to conceptualize, draft, revise, and finalize projects in academic contexts.
4. Writing Conventions: Students will apply writing conventions (e.g. documentation, format, style, language, and mechanics) appropriate for academic genres.

B. BS degree

Current	Proposed
Students must fulfill the English Composition Requirement by completing English 102 with “C” or higher; placement beyond English 102 on EPT.	Students must fulfill the English Composition Requirement by: <ol style="list-style-type: none"><li>1. Attaining a suitable score on the English Placement Test (or other assessment as determined by the English Department);<li>2. completing English 102 with a grade of C or higher;<li>3. transferring in a course that is equivalent to English 102 with a grade of C or higher (course must be at least 2.5 equivalent credits); or<li>4. transferring in a course that is equivalent to a UWM higher-level expository writing course, with a grade of C or higher (course must be at least 2.5 equivalent credits).

This requirement will prepare students to achieve the following outcomes:

1. Rhetorical Knowledge: Students will analyze contexts and audiences in order to comprehend and create a variety of academic texts.
2. Critical Thinking, Reading, and Composing: Students will analyze, synthesize, interpret, and evaluate ideas, information, situations, and texts.
3. Composing Process: Students will develop an array of composing strategies and processes to conceptualize, draft, revise, and finalize projects in academic contexts.
4. Writing Conventions: Students will apply writing conventions (e.g. documentation, format, style, language, and mechanics) appropriate for academic genres.

Rationale:

This proposal will give the BA and BS English requirement the same name. (Currently, in the official documentation in Faculty Document 677, they are named English Writing requirement and English Composition Requirement, respectively.) The changes in language provide exact transfer, placement, and course completion criteria and utilize current English 102 student learning outcomes that align with the Council of Writing Program Administrators outcomes for first-year composition. For accreditation purposes, we are required to adopt learning outcomes for each of our degree requirements. Outcomes do not currently exist for this requirement.

Implementation:

Data on student achievement of the L&S English Composition Requirement learning outcomes should be reported to L&S Administration in the same years that OWC-A GER data are due to the Campus APCC.

II. Math and Formal Reasoning Requirements

A. BA degree

Current	Proposed
<p>To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:</p> <ol style="list-style-type: none"> A. achieve a math placement code of at least 30 or earn at least 3 credits with a grade of C or higher in Math 103 (106), 105, 175, or an equivalent course. B. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in mathematics, Philos 211 (Elementary Logic), or Letters and Science statistics courses. For a list of approved statistics courses, see the College of Letters and Science website. 	<p>The Math and Formal Reasoning Requirements ensure that students will have the ability to evaluate, construct, and communicate arguments using quantitative methods and formal reasoning.</p> <p>The Math requirement is satisfied by any of the following:</p> <ol style="list-style-type: none"> 1. attaining a suitable score on the Math Placement Test (or other assessment as determined by the Mathematical Sciences Department); 2. earning a grade of C or higher in Math 102, 103, 105, 108, 116, or 175, or Math/Philosophy 111; 3. earning 3 credits with a grade of C or higher in a higher-level Math course (courses with Math 102, 103, 105, 108, 116, 175 or Math/Philosophy 111 as a prerequisite); or 4. transferring in an equivalent course with a grade of C or higher (course must be at least 2.5 equivalent credits). <p>Formal Reasoning is satisfied by completing one of the following: any 200-level or above Math course, any 200-level or above logic course (e.g., Philosophy 211), or an approved Letters and Science statistics course.</p>

The Math requirement will prepare students to achieve the following outcomes:

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.

Formal Reasoning Requirement will prepare students to achieve the following outcomes:

1. Students will recognize and construct formal models and hypotheses representing arguments and/or quantitative information.
2. Students will evaluate the adequacy of these models and hypotheses.
3. Students will analyze and manipulate formal models using appropriate mathematical, logical, and/or statistical techniques.
4. Students will reach logical conclusions, predictions, or inferences.
5. Students will assess the reasonableness of their conclusions.

Requirement: A Formal Reasoning course must be primarily focused on using the formal tools and methods mentioned above; courses for which this is not the primary focus do not satisfy the requirement.

B. BS degree

Current	Proposed
<p>All BS students must complete Math 211, 221, or 231 and one additional 200-level Math course (excluding Math 225), or Philosophy 212 (Modern Deductive Logic), or a Letters and Science statistics course.</p>	<p>The Math and Formal Reasoning Requirements ensure that students will have the ability to evaluate, construct, and communicate arguments using quantitative methods and formal reasoning.</p> <p>The Math Requirement is satisfied by earning a minimum of 3 credits in one of the following Calculus courses: Math 211, 213, 221, or 231.</p> <p>Formal Reasoning is satisfied by one of the following: any additional 200-level or above math course, any 200-level or above logic course (e.g., Philosophy 211), or an approved Letters and Science statistics course.</p>

The Math Requirement will prepare students to achieve the following outcomes:

1. Students will recognize and be able to distinguish between the common elementary functions (polynomial, rational, exponential, logarithmic, and optionally trigonometric), based on their properties.
2. Students will understand and be able to apply the intuitive definitions of the mathematical concepts of Continuity and Limits.
3. Students will understand the concept of Instantaneous Rate of Change, the definition of the Derivative of a function and its interpretation in terms of instantaneous rate of change, and will be able to calculate fluently the derivatives of the common elementary functions and functions built from them by algebraic methods.

4. Students will understand the definitions and interpretations of anti-differentiation and integration, and the connection between those concepts provided by the Fundamental Theorem of Calculus, and will be able to compute anti-derivatives and integrals using basic techniques such as the method of substitution.

5. Students will be able to apply differentiation and integration in a variety of both real-world applications and mathematical settings, including graphical, verbal, and numerical representations, and will be able to choose techniques appropriate for a given specific problem.

The Formal Reasoning Requirement will prepare students to achieve the following outcomes:

1. Students will recognize and construct formal models and hypotheses representing arguments and/or quantitative information.

2. Students will evaluate the adequacy of these models and hypotheses.

3. Students will analyze and manipulate formal models using appropriate mathematical, logical, and/or statistical techniques.

4. Students will reach logical conclusions, predictions, or inferences.

5. Students will assess the reasonableness of their conclusions.

Requirement: A Formal Reasoning course must be primarily focused on using the formal tools and methods mentioned above; courses for which this is not the primary focus do not satisfy the requirement.

Rationale:

Like the adjustments to the English Composition requirement, we hope to provide exact language for use in all cases.

Implementation:

Data on student achievement of the L&S Math and Formal Reasoning Requirements learning outcomes should be reported to L&S Administration in the same years that QL-A and QL-B GER data are due to the Campus APCC.

III. Language Requirement

A. BA degree

Current	Proposed
<p>Students may satisfy the Foreign Language requirement in one of two ways:</p> <ol style="list-style-type: none">1. Successful completion of the fourth semester of college work or equivalent in one language other than English (including American Sign Language) or2. Successful completion of the third semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the second semester of college work or equivalent in another language other than English (including American Sign Language).	<p>Students must fulfill the L&S Language Requirement by:</p> <ol style="list-style-type: none">1. Successfully completing the fourth semester of college work or equivalent in one language other than English (including American Sign Language). This requirement is satisfied by four years of single language other than English taken in high school; or2. Successfully completing the third semester of college work or equivalent in one language other than English PLUS the second semester of college work or equivalent in another language other than English;3. Placement testing or an appropriate score on the ACTFL examination may fulfill this requirement.

This requirement will prepare students to achieve at least two of the following outcomes for each respective language course level:

Second semester language courses

1. Students will understand and use familiar everyday expressions and very basic phrases aimed at the satisfaction of needs of a concrete type.
2. Students will understand simple sentences related to everyday life and sometimes understand the main idea of what is said or read.
3. Students will introduce themselves and others and ask and answer questions about personal details such as where they live, people they know, and things they have.
4. Students will interact in a basic way provided the other person communicates simply and clearly and is prepared to help.
5. Students will identify some common beliefs and attitudes within the cultures studied and compare them to their own beliefs and attitudes.
6. Students will translate simple sentences from the target language into English.
7. Students will understand and identify morphology and vocabulary, as well as grammatical and syntactical constructions appropriate to the course level.

Third semester language courses

1. Students will understand sentences and frequently used expressions related to areas of most immediate relevance (e.g. very basic personal and family information, shopping, local geography, employment).
2. Students will comprehend the main idea of short authentic materials.
3. Students will communicate in simple and routine tasks requiring a simple and direct exchange of information on familiar and routine matters.
4. Students will describe in simple terms aspects of their background, personal preferences and feelings, immediate environment and matters in areas of immediate need.
5. Students will identify some common beliefs and attitudes within the cultures studied such as social etiquette or the role of the family and appropriate patterns of behavior (such as greetings or gestures).
6. Students will translate paragraph-length passages from the target language into English.
7. Students will understand and identify morphology and vocabulary, as well as grammatical and syntactical constructions appropriate to the course level.

Fourth semester language courses

1. Students will understand the main points of clear standard input on familiar matters/predictable and concrete exchanges regularly encountered in work, school, leisure, etc.
2. Students will answer questions and describe personal preferences and feelings with some explanation.
3. Students will deal with situations likely to arise whilst travelling in an area where the language is spoken.
4. Students will produce simple connected text on topics that are familiar or of personal interest.
5. Students will describe experiences and events, dreams, hopes, and ambitions and briefly give reasons and explanations for opinions and plans.
6. Students will identify some common beliefs and attitudes within the cultures studied and compare them to their own beliefs and attitudes.
7. Students will translate extended discourse from the target language into English.
8. Students will understand and identify morphology and vocabulary, as well as grammatical and syntactical constructions appropriate to the course level.

B. BS degree

Current	Proposed
Students must successfully complete the second semester of college work or equivalent in a language other than English.	Students must fulfill the L&S Language Requirement by successfully completing two courses (minimum 6 credits) in a language other than English at the 100 level or above. This requirement is satisfied by two years of a single language other than English taken in high school. Placement testing or an appropriate score on the ACTFL examination may fulfill this requirement.

This requirement will prepare students to achieve at least two of the following outcomes:

Second semester language courses

1. Students will understand and use familiar everyday expressions and very basic phrases aimed at the satisfaction of needs of a concrete type.
2. Students will understand simple sentences related to everyday life and sometimes understand the main idea of what is said or read.
3. Students will introduce themselves and others and ask and answer questions about personal details such as where they live, people they know, and things they have.
4. Students will interact in a basic way provided the other person communicates simply and clearly and is prepared to help.
5. Students will identify some common beliefs and attitudes within the cultures studied and compare them to their own beliefs and attitudes.
6. Students will translate simple sentences from the target language into English.
7. Students will understand and identify morphology and vocabulary, as well as grammatical and syntactical constructions appropriate to the course level.

Rationale:

Under the 2006 requirement, there were no outcomes by which student achievement in L&S language courses could be objectively evaluated. This proposal includes outcomes for second, third, and fourth semester language courses. Outcomes are needed for each of these semester markers since the L&S degree requirements indicate that those semesters are milestones in the degree requirements. These outcomes were approved by 16 out of the 18 language programs that the L&S Language and International Requirement working group contacted (2 programs did not respond). Furthermore, this proposal removes the word "foreign" from the requirement. ASL and Anishinaabemowin and other indigenous languages of the United States are not US-external languages, and the academy is dedicated to shifting the focus of viewing language as one of nation states to a state of being or cultural identity.

Implementation:

1. International students who received a secondary school diploma or equivalent from an institution where the language of instruction is not English automatically meet the L&S Language Requirement.
2. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

IV. International Requirement

A. BA degree

Current	Proposed
Students must satisfy the International Requirement by 1) completing three courses (at least 9 credits) in a single foreign language (not literature-in-translation) at the 200-level and above, or 2) completing at least three non-language courses (at least 9 credits) with international content chosen from at least two curricular areas, or 3) completing 9 credits in a combination of options 1 and 2.	Students must fulfill the L&S International Requirement by: <ol style="list-style-type: none">1. Completing at least nine credits in a single foreign language (not literature in translation) at the 200-level and above;2. Completing at least nine credits in non-language courses with international content chosen from at least two curricular areas; or3. Completing nine credits in a combination of options 1 and 2.

This requirement will prepare students to achieve the following outcomes:

1. Students will discuss contemporary international issues or events.
2. Students will discuss cultures, economies, geographies, histories, languages, political systems, or social aspects of peoples' lives in the world outside the United States.
3. Students will explain concepts critical to the cultural, economic, geographic, historical, linguistic, political, or social contexts of peoples and nations in the world outside the United States.

B. BS degree

Current	Proposed
Students must satisfy the International Requirement by 1) completing three courses (at least 9 credits) in a single foreign language (not literature-in-translation) at the 200-level and above, or 2) completing at least three non-language courses (at least 9 credits) with international content chosen from at least two curricular areas, or 3) completing 9 credits in a combination of options 1 and 2.	Students must fulfill the L&S International Requirement by: <ol style="list-style-type: none">1. Completing at least nine credits in a single foreign language (not lit-trans) at the 200-level and above;2. Completing at least nine credits in non-language courses with international content chosen from at least two curricular areas; or3. Completing nine credits in a combination of options 1 and 2.

This requirement will prepare students to achieve the following outcomes:

1. Students will discuss contemporary international issues or events.

2. Students will discuss cultures, economies, geographies, histories, languages, political systems, or social aspects of peoples' lives in the world outside the United States.

3. Students will explain concepts critical to the cultural, economic, geographic, historical, linguistic, political, or social contexts of peoples and nations in the world outside the United States.

Rationale:

This revision creates student learning outcomes for the requirement, which will allow for objective assessment of student achievement. The International Requirement criteria were formatted to match other L&S Degree Requirement criteria.

Implementation:

1. Student learning assessment data from courses on the L&S International list will be collected and reviewed every five years in tandem with the review of GER Cultural Diversity courses.

2. Study abroad courses count toward the L&S International Requirement regardless of the content.

3. All 200 level and above foreign language courses count toward the L&S International Requirement (N.B. the term "foreign" here is chosen specifically to note that American Sign Language and Native American languages are excluded from fulfilling the International Requirement).

4. International students, defined as those students who are identified as such on their official university record, automatically meet the L&S International Requirement.

V. Breadth Requirement

(The L&S Faculty approved these L&S Breadth Requirement criteria and this implementation plan on November 10, 2017 as L&S Faculty Document 1015.)

A1. BA degree – Humanities Breadth Requirement

Current	Proposed
Humanities: 12 credits	Humanities: Students must complete 12 credits with no more than 6 credits in one curricular area.

Qualifying courses: L&S courses, excluding 100- and 200-level foreign language courses, that fulfill one of two requirements:

1. Courses that are listed as counting for the campus GER humanities requirement;
2. Courses approved by the L&S AP&CC as meeting at least three of the requirements below.
 - a. Students will be able to demonstrate understanding of social, historical, literary, cultural, or artistic phenomena within an appropriate conceptual framework.
 - b. Students will be able to explain the relationship between theories (e.g. aesthetic, philosophical, cultural, or critical theories) and texts, artworks, or other cultural products.
 - c. Students will be able to analyze and interpret texts, artworks, or other cultural products.
 - d. Students will be able to identify underlying assumptions and alternative explanations of texts, artworks, or other cultural products.
 - e. Students will be able to formulate and explore humanistic questions and use appropriate research tools.

These criteria should be expressed within the context of the specific discipline of the course. Courses need to show how these criteria will be met by specific student activities.

A2. BA degree—Natural Sciences Breadth Requirement

Current	Proposed
Natural Sciences: 12 credits (must include at least one laboratory or field course)	Natural Sciences: Students must complete 12 credits with no more than 6 credits in one curricular area; at least one course must be a laboratory or field course.

Qualifying courses: L&S courses that fulfill one of two requirements:

1. Courses that are listed as counting for the campus GER natural science requirement;
2. Courses approved by the L&S AP&CC as meeting at least three of the requirements below.

- a. Students will be able to use a scientific concept from a natural science discipline to explain related naturally occurring phenomena.
- b. Students will be able to explain and illustrate the relationships between experimental or field data, models, theories and laws.
- c. Students will be able to analyze scientific information.
- d. Students will be able to solve natural science problems with appropriate tools.
- e. Students will be able to discuss and assess the limitations of data, underlying assumptions, the possibility of alternative interpretations, or ambiguous data.

These criteria should be expressed within the context of the specific discipline of the course. Courses need to show how these criteria will be met by specific student activities.

A3. BA degree—Social Sciences Breadth Requirement

Current	Proposed
Social Sciences: 12 credits	Social Sciences: Students must complete 12 credits with no more than 6 credits in one curricular area.

Qualifying courses: L&S courses that fulfill one of two requirements:

- 1. Courses that are listed as counting for the campus GER social science requirement;
- 2. Courses approved by the L&S AP&CC as meeting at least three of the requirements below.
 - a. Students will be able to understand a social scientific concept and apply it to social phenomena.
 - b. Students will be able to explain the relationship between quantitative and/or qualitative data and social scientific theories.
 - c. Students will be able to collect, analyze, and/or interpret quantitative and/or qualitative data.
 - d. Students will be able to use appropriate methods to address applied and/or theoretical research questions.
 - e. Students will be able to identify underlying assumptions and alternative explanations of social phenomena.

These criteria should be expressed within the context of the specific discipline of the course. Courses need to show how these criteria will be met by specific student activities.

B1. BS degree—Humanities Breadth Requirement

Current	Proposed
Humanities: 12 credits	Humanities: Students must complete 12 credits with no more than 6 credits in one curricular area.

Qualifying courses: L&S courses, excluding 100- and 200-level foreign language courses, that fulfill one of two requirements:

1. Courses that are listed as counting for the campus GER humanities requirement;
2. Courses approved by the L&S AP&CC as meeting at least three of the requirements below.
 - a. Students will be able to demonstrate understanding of social, historical, literary, cultural, or artistic phenomena within an appropriate conceptual framework.
 - b. Students will be able to explain the relationship between theories (e.g. aesthetic, philosophical, cultural, or critical theories) and texts, artworks or other cultural products.
 - c. Students will be able to analyze and interpret texts, artworks, or other cultural products.
 - d. Students will be able to identify underlying assumptions and alternative explanations of texts, artworks, or other cultural products.
 - e. Students will be able to formulate and explore humanistic questions and use appropriate research tools.

These criteria should be expressed within the context of the specific discipline of the course. Courses need to show how these criteria will be met by specific student activities.

B2. BS degree—Natural Science Breadth Requirement

Current	Proposed
Natural Sciences: 12 credits, which must include laboratory courses in at least three different curricular areas.	Natural Sciences: Students must complete 12 credits, which must include laboratory courses in at least three different curricular areas.

Qualifying courses: L&S courses that fulfill one of two requirements:

1. Courses that are listed as counting for the campus GER natural science requirement;
2. Courses approved by the L&S AP&CC as meeting at least three of the requirements below.
 - a. Students will be able to use a scientific concept from a natural science discipline to explain related naturally occurring phenomena.
 - b. Students will be able to explain and illustrate the relationships between experimental or field data, models, theories and laws.

- c. Students will be able to analyze scientific information.
- d. Students will be able to solve natural science problems with appropriate tools.
- e. Students will be able to discuss and assess the limitations of data, underlying assumptions, the possibility of alternative interpretations, or ambiguous data.

These criteria should be expressed within the context of the specific discipline of the course. Courses need to show how these criteria will be met by specific student activities.

B3. BS degree—Social Sciences Breadth Requirement

Current	Proposed
Social Sciences: 12 credits	Social Sciences: Students must complete 12 credits with no more than 6 credits in one curricular area.

Qualifying courses: L&S courses that fulfill one of two requirements:

1. Courses that are listed as counting for the campus GER social science requirement;
2. Courses approved by the L&S AP&CC as meeting at least three of the requirements below.
 - a. Students will be able to understand a social scientific concept and apply it to social phenomena.
 - b. Students will be able to explain the relationship between quantitative and/or qualitative data and social scientific theories.
 - c. Students will be able to collect, analyze, and/or interpret quantitative and/or qualitative data.
 - d. Students will be able to use appropriate methods to address applied and/or theoretical research questions.
 - e. Students will be able to identify underlying assumptions and alternative explanations of social phenomena.

These criteria should be expressed within the context of the specific discipline of the course. Courses need to show how these criteria will be met by specific student activities.

Rationale

One, L&S AP&CC has long sought objective criteria to employ in approving courses for inclusion on the L&S Breadth Requirement List. At present, there is no objective way to include or exclude a course. Two, the Higher Learning Commission (HLC) requires that institutions articulate learning outcomes for all academic programs and engage in collecting data on student learning. These qualifying criteria then serve as both objective standards for inclusion and exclusion and assessable learning outcomes.

Implementation

Reviews of each divisional L&S breadth requirement category should coincide with the review of each corresponding GER distribution requirement category.

VI. The Major

A. BA degree

Current	Proposed
<p>After completing 15 credits and before 75 credits have been earned, students must declare a major by contacting the appropriate academic department or program. Failure to declare the major before 75 credits have been earned may result in a delay of graduation. Some departments or programs specify course and/or GPA requirements that students must satisfy prior to declaring the major.</p> <p>The College requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether or not those credits will count as part of the major GPA. Students must complete in residence at least 15 credits in upper-division (numbered 300 or above) courses in their major.</p> <p>To complete the major, students must satisfy all the requirements of the major as stated in the department or program entry later in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog from the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.</p> <p><u>MAJOR OPTIONS</u> Students may declare a departmental major, an interdepartmental major, or a committee interdisciplinary major.</p>	<p>Students must declare a major by contacting the appropriate academic department or program. Failure to declare the major before 75 credits have been earned may result in a delay of graduation. Some departments or programs specify course and/or GPA requirements that students must satisfy prior to declaring the major.</p> <p>The College requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether or not those credits will count as part of the major GPA. Students must complete in residence at least 15 credits in upper-division (numbered 300 or above) courses in their major.</p> <p>To complete the major, students must satisfy all the requirements of the major as stated in the department or program entry later in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog from the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.</p> <p><u>MAJOR OPTIONS</u> Students may declare a departmental major, an interdepartmental major, or a committee interdisciplinary major.</p>

Departmental Major. A departmental major ordinarily offers one of three orientations: 1) general concentration in the discipline, 2) preparation for graduate work in the discipline, or 3) pre-professional training. Students should select one of these orientations in consultation with their major advisor.

Interdepartmental Major. See the major requirements listed under that interdepartmental major.

Committee Interdisciplinary Major. The purpose of the committee interdisciplinary major (CIM) is to accommodate Letters and Science students whose academic or career goals expand beyond the standard major structure.

The committee interdisciplinary major requires a minimum of 30 credits, of which at least 15 must be in upper-division Letters and Science courses (numbered 300 or above) taken in residence at UWM. The CIM must include course work in at least two L&S departments. Courses from most units outside the College also may be identified as part of the major. However, *at least* 18 credits in the major must be earned in Letters and Science courses. Non-L&S courses selected as part of a CIM will *not* count toward the 90 L&S credits required for the degree, but they will satisfy part of the 30 elective credits available to L&S students.

To propose a committee interdisciplinary major, students should obtain a "Declaration of Committee Interdisciplinary Major" form from the Office of Student Academic Services. They must prepare a written statement defining the goals of their proposed major and then identify three faculty members from two or more departments who are willing to function as the major oversight committee. At least two faculty members must be from L&S, and one of these persons serves as committee chair and major advisor. The student and committee members together identify the courses that will be required for the major. The declaration form is completed and signed by the committee chair and then sent for approval to the chair of every

Departmental Major. A departmental major ordinarily offers one of three orientations: 1) general concentration in the discipline, 2) preparation for graduate work in the discipline, or 3) pre-professional training. Students should select one of these orientations in consultation with their major advisor.

Interdepartmental Major. See the major requirements listed under that interdepartmental major.

Committee Interdisciplinary Major. The purpose of the committee interdisciplinary major (CIM) is to accommodate Letters and Science students whose academic or career goals expand beyond the standard major structure.

The committee interdisciplinary major requires a minimum of 30 credits, of which at least 15 must be in upper-division Letters and Science courses (numbered 300 or above) taken in residence at UWM. The CIM must include course work in at least two L&S departments. Courses from most units outside the College also may be identified as part of the major. However, *at least* 18 credits in the major must be earned in Letters and Science courses. Non-L&S courses selected as part of a CIM will *not* count toward the 90 L&S credits required for the degree, but they will satisfy part of the 30 elective credits available to L&S students.

To propose a committee interdisciplinary major, students should obtain a "Declaration of Committee Interdisciplinary Major" form from the Office of Student Academic Services. They must prepare a written statement defining the goals of their proposed major and then identify three faculty members from two or more departments who are willing to function as the major oversight committee. At least two faculty members must be from L&S, and one of these persons serves as committee chair and major advisor. The student and committee members together identify the courses that will be required for the major. The declaration form is completed and signed by the committee chair and then sent for approval to the chair of every

<p>department in which courses in the major will be taken.</p> <p>Students present the completed declaration form to the Office of Student Academic Services at any time between the 15th and 75th credits. An academic advisor, in consultation with the Associate Dean for Student Academic Services, will either approve or deny the proposal. Should the proposal be denied, the student and the committee chair will receive a written explanation of the denial. Students may appeal a denial to the L&S Academic Policies and Curriculum Committee. The proposal also may be reworked and resubmitted.</p>	<p>department in which courses in the major will be taken.</p> <p>Students present the completed declaration form to the Office of Student Academic Services. An academic advisor, in consultation with the Associate Dean for Student Academic Services, will either approve or deny the proposal. Should the proposal be denied, the student and the committee chair will receive a written explanation of the denial. Students may appeal a denial to the L&S Academic Policies and Curriculum Committee. The proposal also may be reworked and resubmitted.</p>
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B. BS degree

Current	Proposed
<p>Requirements are the same as for the Bachelor of Arts degree, with the exception that students must declare a science major.</p> <p>The science major may be one of three kinds: a departmental major from among atmospheric sciences, biological sciences, biochemistry, chemistry, geography, geosciences (geology-geophysics option only), mathematical sciences, and physics; the conservation and environmental sciences major; or a committee interdisciplinary major. (See Bachelor of Arts Degree for the last option.) The courses for the committee interdisciplinary major must be selected from the departments of Biological Sciences, Chemistry, Geography (physical), Geosciences, Mathematical Sciences, and Physics or from other courses approved to meet the natural science requirements.</p>	<p>Students must declare a major by contacting the appropriate academic department or program. Failure to declare the major before 75 credits have been earned may result in a delay of graduation. Some departments or programs specify course and/or GPA requirements that students must satisfy prior to declaring the major.</p> <p>The College requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether or not those credits will count as part of the major GPA. Students must complete in residence at least 15 credits in upper-division (numbered 300 or above) courses in their major.</p> <p>To complete the major, students must satisfy all the requirements of the major as stated in the department or program entry later in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined</p>

in any catalog from the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

MAJOR OPTIONS

Students may declare a departmental major, an interdepartmental major, or a committee interdisciplinary major.

Departmental Major. A departmental major ordinarily offers one of three orientations: 1) general concentration in the discipline, 2) preparation for graduate work in the discipline, or 3) pre-professional training. Students should select one of these orientations in consultation with their major advisor.

Interdepartmental Major. See the major requirements listed under that interdepartmental major.

Committee Interdisciplinary Major. The purpose of the committee interdisciplinary major (CIM) is to accommodate Letters and Science students whose academic or career goals expand beyond the standard major structure.

The committee interdisciplinary major requires a minimum of 30 credits, of which at least 15 must be in upper-division Letters and Science courses (numbered 300 or above) taken in residence at UWM. The CIM must include course work in at least two L&S departments. Courses from most units outside the College also may be identified as part of the major. However, *at least* 18 credits in the major must be earned in Letters and Science courses. Non-L&S courses selected as part of a CIM will *not* count toward the 90 L&S credits required for the degree, but they will satisfy part of the 30 elective credits available to L&S students.

To propose a committee interdisciplinary major, students should obtain a "Declaration of Committee Interdisciplinary Major" form from the Office of Student Academic Services. They must prepare a written statement defining the goals of their proposed major and then identify three faculty members from two or more departments who are willing to function as the

	<p>major oversight committee. At least two faculty members must be from L&S, and one of these persons serves as committee chair and major advisor. The student and committee members together identify the courses that will be required for the major. The declaration form is completed and signed by the committee chair and then sent for approval to the chair of every department in which courses in the major will be taken.</p> <p>Students present the completed declaration form to the Office of Student Academic Services. An academic advisor, in consultation with the Associate Dean for Student Academic Services, will either approve or deny the proposal. Should the proposal be denied, the student and the committee chair will receive a written explanation of the denial. Students may appeal a denial to the L&S Academic Policies and Curriculum Committee. The proposal also may be reworked and resubmitted.</p>
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VII. Research Requirement

A. BA degree

Current	Proposed
Students must complete within their major a research experience approved by the L&S Faculty. For a list of approved options, see the College of Letters and Science web site.	Within their major, students must complete a research experience ¹ approved by the L&S Faculty.

The research course or activity will prepare students to achieve the following outcomes:

1. Students will develop a research question, statement, or problem.
2. Students will evaluate research in the field of study and integrate it with their findings.
3. Students will disseminate their findings orally or in writing.

B. BS degree

Current	Proposed
Students must complete within their major a research experience approved by the L&S Faculty. For a list of approved options, see the College of Letters and Science web site.	Within their major, students must complete a research experience ² approved by the L&S Faculty.

The research course or activity will prepare students to achieve the following outcomes:

1. Students will develop a research question, statement, or problem.
2. Students will evaluate research in the field of study and integrate it with their findings.
3. Students will disseminate their findings orally or in writing.

Rationale

Learning outcomes were created to allow for objective assessment of student learning. Faculty members acknowledged that not every department or program is able offer a dedicated, stand-alone research requirement course for seniors each semester or year; therefore, the subcommittee decided to allow for a broad definition of what qualifies as research and as a culminating experience.

¹ Undergraduate students are not expected to conduct original research. Each department or program can define what an appropriate vehicle is for the undergraduate research experience, that is, standard coursework, independent work with a faculty member, etc.

² Undergraduate students are not expected to conduct original research. Each department or program can define what an appropriate vehicle is for the undergraduate research experience, that is, standard coursework, independent work with a faculty member, etc.

Implementation

Student learning assessment data from L&S Research Requirement experiences will be collected and reviewed every five years in tandem with the review of OWC-B GER courses

IIX. The Minor

A. BA degree

Current	Proposed
The completion of a minor is optional. The College requires that students attain at least a 2.5 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.5 GPA on all minor credits attempted, including transfer work. Departments may require higher GPAs for graduation. Students must complete in residence at least 9 credits of upper-division (numbered 300 or above) courses in the minor.	The completion of a minor is optional. The College requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including transfer work. Departments may require higher GPAs for graduation. Students must complete in residence at least 9 credits of upper-division (numbered 300 or above) courses in the minor.

B. BS degree

Current	Proposed
The completion of a minor is optional. The College requires that students attain at least a 2.5 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.5 GPA on all minor credits attempted, including transfer work. Departments may require higher GPAs for graduation. Students must complete in residence at least 9 credits of upper-division (numbered 300 or above) courses in the minor. The minor need not be from the natural sciences.	The completion of a minor is optional. The College requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.5 GPA on all minor credits attempted, including transfer work. Departments may require higher GPAs for graduation. Students must complete in residence at least 9 credits of upper-division (numbered 300 or above) courses in the minor.

IX. Credit Requirements and Limitations

A. BA degree

Current	Proposed
To complete the BA, 120 degree credits are required, including at least 36 credits in upper-division (numbered 300 or above) courses offered by the College of Letters and Science. At least 90 credits must be completed in L&S courses, allowing students to take as electives up to 30 credits in courses offered by other UWM academic units. There is no limit to the number of credits that may be taken in one department.	No changes are proposed at this time.

<p>No more than 6 credits in any single course outside the College may be counted toward the BA (or BS) degree. A maximum of six credits in military science courses may be counted toward the degree as non-L&S electives. No more than 6 credits of field experience taken outside the College and no more than 6 credits in sport and recreation courses may be counted toward the degree. No "life experience" credits may be counted toward the degree.</p>	
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B. BS degree

Current	Proposed
<p>To complete the BS, 120 degree credits are required, including at least 36 credits in upper-division courses (numbered 300 or above) offered by the College of Letters and Science. For the Bachelor of Science degree, at least 30 of these 36 credits must be from natural science curricular areas or other courses approved as advanced natural sciences. (See web listing for natural science courses.) There is no limit to the number of credits that may be taken in one department. No more than 6 credits in any single course outside the College may be counted toward the BA (or BS) degree. A maximum of six credits in military science courses may be counted toward the degree as non-L&S electives. No more than 6 credits of field experience taken outside the College and no more than 6 credits in sport and recreation courses may be counted toward the degree. No "life experience" credits may be counted toward the degree.</p>	<p>No changes are proposed at this time.</p>