Liberal Studies Criteria

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Liberal Studies Criteria

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Appendix I

IUP Information Literacy Standards



I. Guidelines for Liberal Studies Curriculum Proposals

One copy of the curriculum proposal should be submitted to the Office of Liberal Studies.

A. Course Content Guidelines

All courses in the Liberal Studies Curriculum must:

- Provide course content that addresses issues of diversity, including the contributions of ethnic and racial minorities and of women, wherever appropriate to the subject matter
- Address Critical Thinking or Critical Reading
- Require the reading and use by students of at least one substantial work of fiction or non-fiction, where appropriate to the subject matter
- Address how multiple sections of the same course will meet common student learning outcomes

B. Course Proposal Submission Guidelines

Course proposals must include the following documents:

- one copy of the course syllabus (in UWUCC Syllabus of Record Format), with signed cover sheet attached (See appendices III, IV and V)
- one copy of the Expected Undergraduate Student Learning Outcomes Chart (Page 4), identifying the primary and secondary outcomes for the course as outlined in the course or category criteria
- sample assignments and grading rubrics as outlined in the Liberal Studies criteria

C. Faculty and Department Commitment

Individual faculty and academic departments offering courses in IUP's Liberal Studies program are expected to commit to the following:

- Sustaining the course content set out in the original course proposal in such a
 way that the course will continue to meet the course outcomes outlined in the
 approved course syllabus and the primary Expected Student Learning Outcomes
 set forth in the course criteria
- Participating in the periodic review and assessment of Liberal Studies courses,
 which may include requests for updated syllabi, assignments and grading rubrics
- Addressing the teaching of Liberal Studies courses in departmental five-year reviews, including assessment of Liberal Studies courses taught by the department
- Participating in the approved University Assessment program for Liberal Studies courses
- Compliance with assessment procedures as set forth by the approved University Assessment Committee
- Participating in relevant discussions and meetings related to the review and assessment of Liberal Studies courses

D. Program revision and program proposal submission guidelines



II. Expected Undergraduate Student Learning Outcomes

All course proposals for Liberal Studies approval must include the chart below. Proposers are asked to identify the primary and secondary Expected Undergraduate Student Learning Outcomes that should be fostered in the course, based on the criteria outlined in this handbook.

Outcome		Secondary		
Informed Learners understand nature and society through forms of inquiry				
fundamental to the sciences, the humanities, and the arts. Learners are				
informed by knowledge and ways of knowing that extend beyond core		4 1		
concepts enabling them to link theory and practice.				
Informed Learners demonstrate knowledge and understanding of:	*			
the ways of modeling the natural, social and technical worlds	V			
the aesthetic facets of human experience				
the past and present from historical, philosophical and social				
perspectives				
the human imagination, expression and traditions of many cultures				
 the interrelationships within and across cultures and global communities 				
the interrelationships within and across disciplines				
Empowered Learners are critical thinkers who demonstrate intellectual agility				
and creativity and the ability to manage or create change. They are able to				
derive meaning from experience and observation. They communicate well in				
diverse settings and employ various strategies to solve problems. They are				
empowered through mastery of intellectual and practical skills.				
Empowered Learners demonstrate:				
effective oral and written communication abilities				
ease with textual, visual and electronically-mediated literacies				
 problem solving skills using a variety of methods and tools 				
 information literacy skills including the ability to access, evaluate, 				
interpret and use information from a variety of sources				
 the ability to transform information into knowledge and knowledge into 				
judgment and action				
the ability to work within complex systems and with diverse groups				
 critical thinking skills including analysis, application and evaluation 				
 reflective thinking and the ability to synthesize information and ideas 				
Responsible Learners are engaged citizens of a diverse democratic society				
who have a deep sense of social responsibility and ethical judgment. They				
are responsible for their personal actions and civic values.				
Responsible Learners demonstrate:				
intellectual honesty				
concern for social justice				
civic engagement				
an understanding of the ethical and behavioral consequences of				
decisions and actions on themselves, on society and on the physical world				
an understanding of themselves and a respect for the identities,				
histories, and cultures of others				

III. Liberal Studies Learning Skills Requirements

A. First Year Seminar

The First Year Seminar (FYS) is a required course for all entering first year students. FYS courses may be offered by any department based on disciplinary expertise and the criteria outlined below. Proposals of a cross-disciplinary nature that may be team taught or linked with other Liberal Studies or major's courses are encouraged.

First Year Seminar courses may be offered as a three-credit course in the fall semester of the freshman year. Students who take the three-credit course will have completed the FYS requirement. An additional option for the FYS course includes completion of a one-credit course offered in pre-fall or fall of the freshman year and an additional two-credit course in the fall or spring semester of the freshman year. Students who take a one-credit FYS course must also complete the two-credit course to fulfill the FYS requirement. Students who transfer to IUP with 15 or more credits from another institution are exempted from the FYS requirement.

First Year Seminar Expected Undergraduate Student Learning Outcomes

Syllabi for courses designed to fulfill the Liberal Studies First Year Seminar requirement must identify the following Expected Undergraduate Student Learning Outcomes as *primary* objectives:

As Informed Learners students will demonstrate knowledge and understanding of:

• the interrelationships within and across disciplines

As Empowered Learners students will demonstrate:

• information literacy skills including the ability to access, evaluate, interpret and use information from a variety of sources

As Responsible Learners students will demonstrate:

- intellectual honesty
- an understanding of the ethical and behavioral consequences of decisions and actions on themselves, on society and on the physical world
- an understanding of themselves and a respect for the identities, histories, and cultures of others

The following Expected Undergraduate Student Learning Outcomes are identified as secondary objectives for courses meeting the Liberal Studies First Year Seminar requirement:

As *Empowered Learners* students will demonstrate:

- ease with textual, visual and electronically-mediated literacies
- problem solving skills using a variety of methods and tools
- the ability to transform information into knowledge and knowledge into judgment and action

First Year Seminar Required Course Content

Proposals for <u>two and three credit courses</u> designed to fulfill the Liberal Studies First Year Seminar requirement must include:

- Substantive course content addressing fundamental concerns of human experience. This criterion is abstract by design, and meant to admit courses from many different disciplines. It is expected that the course be designed in a way that offers students opportunities to make connections among and between disciplines. The following examples are offered as guidance:
 - How do science and technology affect the human condition?
 - What is it to be human (biologically, psychologically, anthropologically, sociologically, philosophically, spiritually, etc.)?
 - What are our obligations regarding environmental protection (scientifically, politically, ethically, etc.)?
 - Do considerations of individual rights or societal well being mandate revisions to our criminal justice policies?
 - From what source do moral principles derive their authority? Are basic moral principles absolute or culture relative?
 - Is the creation of or appreciation of art informed by or reflective of cultural points of view with respect to time, place, class, gender, ethnicity or race?
 - What structures of meaning and value may we find in or attach to the world?
- 2. Use of *primary source* materials directly related to the substantive content area. For example, students studying classic economic theories might read from Adam Smith's *The Wealth of Nations* (as opposed to reading only books about Adam Smith.) Those studying segregation might read "Plessy v. Ferguson" and "Brown v. Board of Education". Students studying evolutionary theory might read from Darwin's *On the Origin of Species*. Those studying art forms that reflect cultural perspectives might view original works of art reflective of various periods and perspectives.
- 3. Exposure to *scholarly discourse* related to the substantive area, acquainting students with some fundamentals of academic communication.
- 4. Pedagogy that consciously utilizes active learning strategies to foster student engagement with the content, the professor and each other and the development of effective learning skills. Strategies may include, but are not limited to: experiential group techniques, collaborative and cooperative learning, problem solving, group projects, oral presentation, sequentially structured written assignments, multimedia and technology, and dialectic.
- 5. Assignments that require critical reading, writing, and critical thinking.
- 6. Introspection and reflection relating to knowledge and its application to the world and how the student fits into it.
- 7. Perspectives and contributions of *underrepresented groups*, where appropriate.
- 8. Perspectives and contributions of *women*, where appropriate.
- 9. Assignments that promote the development of information literacy skills.
- 10. Activities that promote an understanding of what constitutes intellectual honesty.
- 11. Linked curricular and co-curricular experiences, including such things as living/learning arrangements and activities, library and other resource usage, knowledge and application of technology and campus learning tools and

involvement in campus organizations and other positive involvements in the university community

First Year Seminar Required Course Content

Proposals for <u>one credit courses</u> designed to fulfill part of the Liberal Studies First Year Seminar requirement include the development of transitional skills for student academic success and socialization to university life. These one credit courses must include:

- 1. *Introduction to College* including understanding higher education, its purpose, value and expectations
- 2. Learning Strategies and College Study Skills including meta-cognition about thinking and learning
- 3. Personal Responsibility including self-motivation, self-management, self-discipline, and self-direction
- 4. Educational and Life Planning including connecting the present academic experience to future personal and professional goals.
- 5. Critical Thinking Skills including understanding epistemological and methodological differences across a variety of academic disciplines (e.g., types of intellectual questions asked; approaches to answering these questions; ways of learning and knowing) and standards for demonstrating critical thinking skills (see Appendix III). Critical Thinking as it applies to interpersonal relationships, money management and intelligent consumerism, evaluating information in print and through the Internet, and choice of major and career.
- 6. Humanistic Diversity including life styles, learning styles, multicultural diversity, sexual orientation, intercultural communication skills and achieving community amidst diversity.

Additionally, individuals or departments proposing courses designed to fulfill any First Year Seminar course are encouraged to include:

- Opportunities for service learning and/or civic engagement
- Assignments and/or discussions relating to the Common First Year Reader
- Peer-to-peer interactive learning arrangements and activities, including such things as peer-led workshops, peer-assisted learning, peer- leadership activities and peer-mentoring arrangements

B. English Composition I and II

Students are required to complete two courses in this category, English Composition I and English Composition II. English Composition I is traditionally a first year course and English Composition II is traditionally a sophomore year course.

In addition to these two required Liberal Studies English Composition courses, students must complete two additional Writing Competency-Across-the-Curriculum (CAC) courses. One of these Writing CAC courses must be completed in the student's primary major. The other Writing CAC course may be accomplished in any part of a student's curriculum including other Liberal Studies courses, major courses or electives.

1. English Composition I

English Composition I Expected Undergraduate Student Learning Outcomes

Syllabi for courses meeting the Liberal Studies English Composition I requirement must identify the following Expected Undergraduate Student Learning Outcomes as *primary* objectives:

As Informed Learners students will demonstrate knowledge and understanding of:

the aesthetic facets of human experience

As Empowered Learners students will demonstrate:

- effective oral and written communication abilities
- ease with textual, visual and electronically-mediated literacies
- problem solving skills using a variety of methods and tools
- the ability to transform information into knowledge and knowledge into judgment and action
- the ability to work within complex systems and with diverse groups
- critical thinking skills including analysis, application and evaluation
- reflective thinking and the ability to synthesize information and ideas

As Responsible Learners students will demonstrate:

- intellectual honesty
- an understanding of the ethical and behavioral consequences of decisions and actions on themselves, on society and on the physical world
- an understanding of themselves and a respect for the identities, histories, and cultures of others

The following Expected Undergraduate Student Learning Outcomes are identified as secondary objectives for courses meeting the Liberal Studies English Composition I requirement:

As *Informed Learners* students will demonstrate knowledge and understanding of:

- the past and present from historical, philosophical and social perspectives
- the human imagination, expression and traditions of many cultures
- the interrelationships within and across cultures and global communities

the interrelationships within and across disciplines

As *Empowered Learners* students will demonstrate:

• information literacy skills including the ability to access, evaluate, interpret and use information from a variety of sources

As Responsible Learners students will demonstrate:

concern for social justice

English Composition I Required Course Content

English Composition I courses designed to fulfill the Liberal Studies requirement must include attention to five areas of literate practice for college learners.

- 1. Writing: Students complete an appropriate variety of writing projects intended for different audiences, purposes, or formats. A sequence of three major writing projects: it is recommended that at least one should be analytical or argumentative. Students explore, select, and develop writing genre projects to understand the many ways of addressing development and form. Each project includes appropriate mixtures of both process and product writing: in-class and out-of-class writing, and ungraded (formative) and graded (formed) writing. In addition to the genre-based projects, students construct a final portfolio for assessment purposes.
- 2. Reading: All sections create a reading fabric for the course: some by adopting the first-year reader, some by selecting readings that develop an inquiry topic or theme, and some by adopting an appropriate course anthology. Students encounter college level readings as support for understanding style and form, discussing ideas, practicing critical inquiry, shaping response, developing their own writing projects, and composing. The course includes preliminary work with the ways writers incorporate and acknowledge their reading: signaling, quoting, summarizing, paraphrasing, citing internally.
- 3. Revising: Students will learn ways to intervene in the writing process, in both early and late stages: task definition, topic selection, paragraph development, organization and format, proofreading and editing for standard, written English. They will read their own and peers' texts with an eye toward product features. Major assignments have clearly defined stages of preparation and regular progress reviews.
- 4. Speaking and Listening: Students are introduced to effective classroom language use, speaking and listening in one-on-one, small-group, and large-group contexts. They will also meet in structured reading and writing groups to prepare collaborative reports or respond orally and in writing to peer writing projects. Students will meet with their instructor in one or more required writing conferences.
- 5. Reflecting: Students will experience opportunities to reflect on writing process and writing product work. Reflection is integrated into the semester and into a final portfolio to be submitted for assessment purposes.

The recommended assessment strategy for this course is a student portfolio. Each student's portfolio should contain:

- Two Showcase Essays each of a different type or genre (memoir, comparison/contrast, explanation, analysis, argument). One essay is part of a submitted "writing process set" and one essay is a stand-alone, polished essay. One of the two essay selections must show that the writer can integrate texts into his or her writing. This should be an essay that shows that the writer has read and made use of a book, an essay, a film or some other text(s) to develop the essay. Each writer should choose his or her most interesting example of this ability to write thoughtfully about a text.
- A Reflective Cover Letter where students will review their showcase pieces and compose a cover letter. The cover letter explains rhetorical features, specific revisions, and final-product values demonstrated in the self-selected contents of the portfolio.

Additionally, individuals proposing courses designed to fulfill the Liberal Studies English Composition I requirement are encouraged to include:

- sections where students create web-based writings
- sections designed to link with Living/Learning Communities or First Year Seminar courses

English Composition I Common Learning Objectives

Students who complete the English Composition I course should be able to:

- use writing process resources: to generate, develop, share, revise, proofread and edit major writing projects.
- produce polished essays that address a purpose, develop significant content, and structure for an audience.
- produce a variety of essay genres.
- understand and integrate reading into writing.
- reflect on their own writing process and writing product values.



2. English Composition II

In addition to the criteria outlined below, English Composition II also introduces sophomore students to IUP's approved Information Literacy Competency Standards (see Appendix I). At the end of English Composition II these skills are emergent rather than secure in a disciplinary sense. It is expected that other courses, particularly those designated as Information Literacy Competency-Across-the-Curriculum courses, will build on English Composition II with discipline-based information literacy expectations.

English Composition II Expected Undergraduate Student Learning Outcomes

Syllabi for courses meeting the Liberal Studies English Composition II requirement must identify the following Expected Undergraduate Student Learning Outcomes as *primary* objectives:

As Informed Learners students will demonstrate knowledge and understanding of:

- the past and present from historical, philosophical and social perspectives
- As Empowered Learners students will demonstrate:
 - effective oral and written communication abilities
 - ease with textual, visual and electronically-mediated literacies
 - problem solving skills using a variety of methods and tools
 - information literacy skills including the ability to access, evaluate, interpret and use information from a variety of sources
 - the ability to transform information into knowledge and knowledge into judgment and action
 - the ability to work within complex systems and with diverse groups
 - critical thinking skills including analysis, application and evaluation
 - reflective thinking and the ability to synthesize information and ideas

As Responsible Learners students will demonstrate:

- intellectual honesty
- an understanding of the ethical and behavioral consequences of decisions and actions on themselves, on society and on the physical world
- an understanding of themselves and a respect for the identities, histories, and cultures of others

The following Expected Undergraduate Student Learning Outcomes are identified as secondary objectives for courses meeting the Liberal Studies English Composition II requirement:

As Informed Learners students will demonstrate knowledge and understanding of:

the interrelationships within and across disciplines

As Responsible Learners students will demonstrate:

- concern for social justice
- civic engagement

English Composition II Required Course Content

English Composition II develops writing-for-inquiry skills: finding, reading, evaluating resource materials and synthesizing them into an appropriate form. The course must include attention to developing the following abilities:

- 1. Writing: The course develops writing skills appropriate to the development of synthesis essays grounded in research. It includes composition of a summary, research report, abstract, annotated or analytical bibliography, and a research essay. The course also includes assignments designed to establish and sustain a focus, to state and support a workable thesis. In the course students should be able to use a body of knowledge inside a written work, to paraphrase, quote, summarize, explain, interpret, comment and learn to the use appropriate writing and documentation styles such as MLA or APA.
- 2. Critical Reading: The course develops the ability to build significant context for topics or issues explored. Course assignments should aid the student's ability to read precisely, to locate main ideas, summarize accurately, and identify different perspectives in resources; to identify "shifts" in a text—the voices or points of view that are not necessarily the author's own yet bear some relation to it; to compare main ideas and perspectives of others to one's own ideas, experiences, and perspectives and to compare new knowledge with prior knowledge in order to determine the relevance of new knowledge, the presence and potential value of contradictions, and other unique characteristics of new research.
- 3. Researching: The course develops the ability to access, evaluate, interpret and use research. Course assignments should aid in the student's ability to: define and articulate the need for research (including the ability to express a problem, a puzzle, or a question leading to inquiry); identify a variety of types and formats of research documents; use a university library to locate reference, stack, and serial sources and to access electronic resources (data bases, internet, worldwide web); assess resources for credibility and relevance; determine whether the initial query should be revised and access and use resources ethically and legally.
- 4. Revising: Assignments in the course should aid in the student's ability to: use the revision process to consider audience, purpose, language, evidence and organization for research writing genres; integrate and acknowledge research sources in all written forms; and proofread and edit for standard, written English.
- 5. Speaking and Listening: Students meet in structured reading, research, and writing groups in the classroom to share research problems, processes and successes; prepare reports for presentation; respond orally and in writing to peer writing projects. Students prepare and deliver one research-based oral presentation.
- 6. Reflecting: Students will have opportunities to reflect on the research process, writing process and writing product work. Reflection is integrated into a course portfolio to be submitted for assessment purposes.

Additionally, individuals proposing courses designed to fulfill the Liberal Studies English Composition II requirement are encouraged to include:

- sections where students create web-based writings
- surveys and interviews as field resources for synthesis projects
- sections based on a theme or topic

English Composition II Common Learning Objectives

All courses proposed to meet the Liberal Studies English Composition II requirement will establish common learning objectives station:

At the conclusion of the course students will be able to:

- compose a focused and cohesive synthesis essay: use thesis statements, topic sentences, and transitional sentences to communicate connections between sources and students' own ideas, observations, insights, explanations, or arguments
- access relevant print and electronic resources, evaluate and select sources, manage and sustain a research aim, and take advantage of significant finds
- use a body of knowledge inside written work: paraphrase, quote, summarize, explain/interpret/comment, cite, and document (MLA or APA).
- conduct and then explain or reflect on own research process
- explain or reflect on own writing process: topic growth and complexity; the role of pre-writings and drafts; and of peer, teacher, or tutor feedback

Recommended assessment strategies for English Composition II include the use of student portfolios that contain:

- An important document from within the research process: Students will use their
 own judgment to select an assignment that shows they have found, evaluated
 and made decisions about sources to use or include an assignment they feel
 helped them manage sources and get to know their topic better. Students should
 be prepared to explain how the assignment helped and why it was a significant
 step in their larger research process. Possibilities include, but are not limited to:
 status reports, research exercises, annotated bibliographies, reviews of research
 literature, or assignments with other names that moved them well into materials
 related to their topic.
- An essay draft and relevant feedback: Students will include either a mid- or latewriting process draft, which helped the student work to compose a synthesis essay. This would also include any helpful feedback the student received from peers, the instructor, or a tutor.
- The final copy of a synthesis essay: The revised and edited essay handed in for grading.
- A reflective cover letter: Students will compose a cover letter that explains the growth and expansion of their research process, that discusses the ideas and strategies discovered during the drafting and revising process, and that points to the rhetorical features of their completed and polished synthesis essay.

C. Mathematics

Students are required to complete at least one mathematics course to fulfill the Liberal Studies Mathematics requirement. Additional mathematics requirements may be specified by the student's major or college.

In addition to the required Liberal Studies Mathematics courses, students must complete one additional Quantitative Reasoning Competency-Across-the-Curriculum (CAC) course. The Quantitative Reasoning CAC course may be accomplished in any part of a student's curriculum including other Liberal Studies courses, major courses or electives.

Mathematics Expected Undergraduate Student Learning Outcomes

Syllabi for courses meeting the Liberal Studies Mathematics requirement must identify the following Expected Undergraduate Student Learning Outcomes as *primary* objectives:

As Informed Learners students will demonstrate knowledge and understanding of:

the ways of modeling the natural, social and technical worlds

As Empowered Learners students will demonstrate:

- problem solving skills using a variety of methods and tools
- critical thinking skills including analysis, application and evaluation

The following Expected Undergraduate Student Learning Outcomes are identified as secondary objectives for courses meeting the Liberal Studies Mathematics requirement:

As Informed Learners students will demonstrate knowledge and understanding of:

the interrelationships within and across disciplines

As Empowered Learners students will demonstrate:

- the ability to transform information into knowledge and knowledge into judgment and action
- reflective thinking and the ability to synthesize information and ideas

Mathematics Required Course Content

Proposals for courses designed to fulfill the Liberal Studies Mathematics requirement must include opportunities for students to:

- Develop and apply deductive reasoning skills
- Apply multiple problem solving techniques as appropriate to the course
- Promote understanding and use of mathematical formulas
- Enable the interpretation, analysis and use of numerical and graphical data
- Develop mathematical models to solve problems

Additionally, individuals proposing courses designed to fulfill the Liberal Studies Mathematics requirement are encouraged to include opportunities for students to:

- Increase confidence and ability in using mathematics
- Introduce historical context of mathematical problems and their solutions
- Introduce the appropriate use of technology as a tool in problem solving
- Include applications and problems from a variety of disciplines

Mathematics Common Learning Objectives

All courses meeting the Liberal Studies Mathematics requirement will establish common course objectives stating:

At the conclusion of the course the student will be able to:

- understand deductive reasoning and apply it in the problem solving process
- apply appropriate techniques to solve a variety of problems
- interpret, understand and apply mathematical formulas appropriate to the course
- interpret, analyze and use numerical data and graphs
- develop simple mathematical models to solve problems



D. Dimensions of Wellness

Students are required to complete three (3) credits in the Dimensions of Wellness category. This requirement can be met through a menu of options that includes one-, two- and three-credit courses. This category could include courses that explore one or more dimensions of wellness including: physical, emotional, spiritual, intellectual, social, financial or professional (occupational) wellness.

The design of the one-, two- and three-credit options allows students to explore an area of wellness relevant to their own needs and the option to select a type of physical activity best suited to their inclinations.

Dimensions of Wellness Expected Undergraduate Student Learning Outcomes

Syllabi for courses meeting the Liberal Studies Dimensions of Wellness requirement must identify the following Expected Undergraduate Student Learning Outcomes as *primary* objectives:

As Informed Learners students will demonstrate knowledge and understanding of:

• the interrelationships within and across disciplines

As Empowered Learners students will demonstrate:

- the ability to transform information into knowledge and knowledge into judgment and action
- reflective thinking and the ability to synthesize information and ideas

As Responsible Learners students will demonstrate:

- an understanding of the ethical and behavioral consequences of decisions and actions on themselves, on society and on the physical world
- an understanding of themselves and a respect for the identities, histories, and cultures of others

The following Expected Undergraduate Student Learning Outcomes are identified as secondary objectives for courses meeting the Liberal Studies Dimensions of Wellness requirement:

As Empowered Learners students will demonstrate:

- effective oral and written communication abilities
- problem solving skills using a variety of methods and tools
- information literacy skills including the ability to access, evaluate, interpret and use information from a variety of sources

Dimensions of Wellness Required Course Content

Proposals for courses designed to fulfill the Liberal Studies Dimensions of Wellness requirement must include:

- experiential components
- self-reflection
- self-assessment

- active practice
- reflective thinking and evaluation skills

Additionally, individuals proposing courses designed to fulfill the Liberal Studies Dimensions of Wellness requirement are encouraged to include:

- critical thinking skills
- analysis, evaluation
- developmental context
- cultural context

Dimensions of Wellness Common Learning Objectives

All courses meeting the Liberal Studies Dimensions of Wellness requirement will establish common course objectives stating:

At the conclusion of the course the student will be able to:

- improve self-knowledge in the area of wellness
- live a more healthy lifestyle
- use self-assessment to make informed decisions
- use information literacy skills to seek and evaluate information



E. Global and Multicultural Awareness

Students can fulfill the Global and Multicultural Awareness requirement by completing one (1) course from an approved list of cultural studies courses. Global and Multicultural Awareness courses must be 300-level or higher and carry an enrollment prerequisite of 60 credits.

Students are also able to fulfill this requirement by completing any approved 200-level foreign language course. Language courses must prepare students beyond simple language structure by incorporating exposure to communication, connection, comparisons, community and culture. Students may be exempted from this requirement by passing an appropriate foreign language proficiency test at the 200 level or by completing an approved study abroad program.

A Global and Multicultural Awareness course may present one or more cultures by emphasizing a single dimension, e.g. art, music, dance, politics, religion. Such a course is appropriate if the dimension is represented in its cultural context, emphasizing cultural ideas, norms and issues. Although a Global and Multicultural Awareness course may deal with a single culture, comparative courses addressing relationships among cultures are encouraged.

Literature courses, either in translation or in the language of the culture(s), may be appropriate if the literature selected is authored predominantly by non-Western writers. The literature selected for such a course must represent cultural phenomena, issues and values in contemporary society.

Global and Multicultural Awareness courses cannot be used toward credit hours in the major. In addition to the required Global and Multicultural Awareness course, students must complete one additional Global Citizenship Competency-Across-the-Curriculum (CAC) course.

Global and Multicultural Awareness Expected Undergraduate Student Learning Outcomes

Syllabi for courses meeting the Liberal Studies Global and Multicultural Awareness requirement must identify the following Expected Undergraduate Student Learning Outcomes as *primary* objectives:

As *Informed Learners* students will demonstrate knowledge and understanding of:

- the interrelationships within and across cultures and global communities
- As Empowered Learners students will demonstrate:
 - critical thinking skills including analysis, application and evaluation
 - reflective thinking and the ability to synthesize information and ideas

As Responsible Learners students will demonstrate

- intellectual honesty
- an understanding of the ethical and behavioral consequences of decisions and actions on themselves, on society and on the physical world

 an understanding of themselves and a respect for the identities, histories, and cultures of others

The following Expected Undergraduate Student Learning Outcomes are identified as secondary objectives for courses meeting the Liberal Studies Global and Multicultural Awareness requirement:

As Informed Learners students will demonstrate knowledge and understanding of:

- the ways of modeling the natural, social and technical worlds
- the past and present from historical, philosophical and social perspectives
- the human imagination, expression and traditions of many cultures
- the interrelationships within and across disciplines

As Empowered Learners students will demonstrate:

- effective oral or written communication abilities
- ease with textual, visual and electronically-mediated literacies
- information literacy skills including the ability to access, evaluate, interpret and use information from a variety of sources
- the ability to transform information into knowledge and knowledge into judgment and action
- the ability to work within complex systems and with diverse groups

As Responsible Learners students will demonstrate

- concern for social justice
 - civic engagement

Global and Multicultural Awareness Required Course Content

Proposals for courses designed to fulfill the Liberal Studies Global and Multicultural Awareness requirement must include:

- development of students' understanding of contemporary cultures that differ substantially from the prevailing cultures of the United States, Canada, Western Europe, New Zealand, and Australia.
- presentation of cultures on their own terms with an appreciation of their dimensions, going beyond mere description of a culture. Those dimensions may include religion, economics, politics, art, language, literature, ethics, as well as other dimensions of the cultural milieu

Additionally, individuals proposing courses designed to fulfill the Liberal Studies Global and Multicultural Awareness requirement are encouraged to include:

- activities or assignments that allow students to demonstrate the ability to analyze and synthesize information, which may be done through writing tasks, oral presentations, etc.
- reading of a substantial work of fiction or non-fiction other than a textbook
- a variety of perspectives or methodologies, such as anthropological, geographical, historical, sociological, etc., as long as the course emphasizes the cultural phenomena, issues, and values in contemporary society

F. Oral or Technical Communication

Students are required to complete three (3) credits in either oral or technical communication. This requirement may be fulfilled by completing the approved Oral Communication course or one of the approved Technical Communication courses.

In addition to the required Oral or Technical Communication course, students must complete one additional Oral Communication Competency-Across-the-Curriculum (CAC) course *and* one additional Information Literacy Across-the-Curriculum course.

The Oral Communication CAC course may be accomplished in any part of a student's curriculum including other Liberal Studies courses, major courses or electives. The Information Literacy CAC course may be accomplished in any part of a student's curriculum including other Liberal Studies courses, major courses or electives.

1. Oral Communication

Oral Communication Expected Undergraduate Student Learning Outcomes

Syllabi for courses meeting the Liberal Studies Oral Communication requirement must identify the following Expected Undergraduate Student Learning Outcomes as *primary* objectives:

As Empowered Learners students will demonstrate:

- effective oral and written communication abilities
- critical thinking skills including analysis, application and evaluation

The following Expected Undergraduate Student Learning Outcomes are identified as secondary objectives for courses meeting the Liberal Studies Oral Communication requirement:

As Informed Learners students will demonstrate knowledge and understanding of:

- the interrelationships within and across cultures and global communities
 As Empowered Learners students will demonstrate:
 - ease with textual, visual and electronically-mediated literacies
 - information literacy skills including the ability to access, evaluate, interpret and use information from a variety of sources
 - the ability to transform information into knowledge and knowledge into judgment and action
 - the ability to work within complex systems and with diverse groups
 - reflective thinking and the ability to synthesize information and ideas

As Responsible Learners students will demonstrate:

intellectual honesty

Oral Communication Required Course Content

Proposals for courses designed to fulfill the Liberal Studies Oral Communication requirement must include:

- Oral communication theory and practice of oral communication skills as the primary focus of the course
- Oral communication activities that are integrated into the course and not "addons" at the end of the semester
- The application of principles of speech which promote accuracy, logic and clarity
- The organization, construction and delivery by the student of at least three presentations
- Opportunities for feedback from the instructor after each oral communication activity and prior to the next one
- An opportunity for a written self-analysis or reflection paper by the student after at least one oral communication activity
- Student demonstrations of knowledge about verbal and nonverbal communication in various contexts – e.g. interpersonal, small group and public speaking
- At least 75% of the total course grade based on oral communication activities
- Critique of the oral communication activities by the student presenter or other students, appraising the accuracy of the information and the effectiveness of the delivery
- Demonstration of ability to appropriately analyze audience, context, and speech content
- Demonstration of the awareness of the role that physical behavior such as posture, gestures, stance, body movements and facial expression play in communication

Oral Communication Common Learning Objectives

All courses meeting the Liberal Studies Oral Communication requirement will establish common course objectives stating:

At the conclusion of the course the student will be able to:

- demonstrate knowledge about the principles of communication theory
- demonstrate verbal and nonverbal communication skills in various contexts e.g. interpersonal, small group, public speaking)
- before a communication activity, analyze the audience and speaking context and adapt as appropriate; during a speech recognize listeners' needs, analyze their responses and adapt communication accordingly
- apply principles of speech which promote accuracy, logic and clarity
- organize, construct and deliver oral presentations
- effectively use visual(s) to enhance oral presentation(s)
- critique the oral communications activities of oneself and of others, appraising accuracy of the information and effectiveness of the delivery

2. Technical Communication

The technical communication course is intended to develop technological communication skills and should provide students a basic understanding of how a computer or other technological device is used as a communication tool. The course will include teaching of computer skills and other technology for the purpose of communication, organization, research and problem solving.

Technical Communication Expected Undergraduate Student Learning Outcomes

Syllabi for courses meeting the Liberal Studies Technical Communication requirement must identify the following Expected Undergraduate Student Learning Outcomes as *primary* objectives:

As *Empowered Learners* students will demonstrate:

- ease with textual, visual and electronically-mediated literacies
- problem solving skills using a variety of methods and tools
- information literacy skills including the ability to access, evaluate, interpret and use information from a variety of sources
- critical thinking skills including analysis, application and evaluation

As Responsible Learners students will demonstrate:

- intellectual honesty
- an understanding of the ethical and behavioral consequences of decisions and actions on themselves, on society and on the physical world

The following Expected Undergraduate Student Learning Outcomes are identified as secondary objectives for courses meeting the Liberal Studies Technical Communication requirement:

As Informed Learners students will demonstrate knowledge and understanding of:

- the past and present from historical, philosophical and social perspectives
- the human imagination, expression and traditions of many cultures
- the interrelationships within and across cultures and global communities
- the interrelationships within and across disciplines

Technical Communication Required Course Content

Proposals for courses designed to fulfill the Liberal Studies Technical Communication requirement must include:

- The use of productivity software* to demonstrate ease with textual, visual and electronically-mediate literacies
- The use of productivity software* to demonstrate problem solving skills using a variety of methods and tools
- The use of productivity software* to demonstrate information literacy skills including the ability to access, evaluate, interpret and use information from a variety of sources

- The use of productivity software* to demonstrate critical thinking skills including analysis, application and evaluation
- Opportunities for students to demonstrate an understanding of the ethical and behavioral consequences of decisions and actions related to information technology on themselves, on society and on the physical world

Additionally, individuals proposing courses designed to fulfill the Liberal Studies Technical Communication requirement are encouraged to include:

Demonstrating knowledge and understanding of computer as it relates to:

- The past and present from historical, philosophical and social perspectives
- The human imagination, expression and traditions of many cultures.
- The interrelationships within and across cultures and global communities
- The interrelationships within and across disciplines

Technical Communication Common Learning Objectives

All courses meeting the Liberal Studies Technical Communication requirement will establish common course objectives stating:

At the conclusion of the course the student will be able to:

- Identify the various laws and regulations dealing with the protection of original properties
- Discuss the implication of freedom of access to information as it pertains to individual rights to privacy
- Create multimedia presentations dealing with the effects of technology on society
- Demonstrate effective techniques for searching electronic resources
- Develop a basic webpage that demonstrates communication and organization skills
- Demonstrate proficiency in productivity software for the purpose of communications, organization, research and problem solving
- * Productivity software could include the following concepts:
 - Word Processing
 - Database Management
 - Spreadsheets
 - Presentation software
 - Web based technologies
 - Other application packages

IV. Liberal Studies Knowledge Area Requirements

A. Fine Arts

Students must complete one (1) three-credit course in the Fine Arts category.

Fine Arts Expected Undergraduate Student Learning Outcomes

Syllabi for courses meeting the Liberal Studies Fine Arts requirement must identify the following Expected Undergraduate Student Learning Outcomes as *primary* objectives:

As Informed Learners students will demonstrate knowledge and understanding of:

- the ways of modeling the natural, social and technical worlds
- the aesthetic facets of human experience
- the human imagination, expression and traditions of many cultures

As Empowered Learners students will demonstrate:

- problem solving skills using a variety of methods and tools
- the ability to transform information into knowledge and knowledge into judgment and action
- critical thinking skills including analysis, application and evaluation

As Responsible Learners students will demonstrate:

 an understanding of themselves and a respect for the identities, histories, and cultures of others

The following Expected Undergraduate Student Learning Outcomes are identified as secondary objectives for courses meeting the Liberal Studies Fine Arts requirement:

As Informed Learners students will demonstrate knowledge and understanding of:

- the past and present from historical, philosophical and social perspectives
- the interrelationships within and across cultures and global communities
- the interrelationships within and across disciplines

As Empowered Learners students will demonstrate:

- effective oral and written communication abilities
- reflective thinking and the ability to synthesize information and ideas

Fine Arts Required Course Content

Courses designed to fulfill the Liberal Studies Fine Arts requirement must enable students to develop an understanding of the nature of artistic inquiry and to develop a critical and aesthetic appreciation of artworks. Proposals for courses designed to fulfill the Liberal Studies Fine Arts requirement must include:

- Foundational information on the process of creating one or more art forms through artworks that emphasize symbolic, affective, and imaginative ways of knowing – traditionally the visual and performing arts
- Readings in the artistic discipline(s) of study

- An examination of artistic inquiry from a particular culture and tradition compared and contrasted to another culture and tradition
- An exploration of the human creative process unique to artistic creation, compared and contrasted to other creative processes (e.g. scientific, mathematic, or linguistic)
- An experience of finding, accessing, attending, and responding to at least two arts events
- Foundational information on methods of critical analysis of artwork as distinctly different from other modes of human creativity
- Critical responses to artworks across perspectives such as time, geography, and gender

Additionally, individuals proposing courses designed to fulfill the Liberal Studies Fine Arts requirement are encouraged to include:

- A historical and chronological context for the creation of a particular form of art
- Foundational information connecting classical art forms and ideas to the art of today
- Collaborative experiences in a creative process of artistic inquiry
- Writing or other forms of articulation for discourse within and among the artistic disciplines
- Writing or other forms of articulation for discourse linking ideas of artistic creation to the larger topic of human experience
- Instruction in methods of artistic creation.
- Direct engagement with artistic media and materials to create a work of art for public response

Fine Arts Common Learning Objectives

All courses meeting this requirement will establish course objectives stating:

At the conclusion of the course the student will be able to:

- demonstrate understanding of the process(es) by which art forms are created traditionally the visual and performing arts – and be able to compare with other modes of thinking (e.g. scientific, mathematic, linguistic)
- examine artistic inquiry amongst representative cultures and traditions and be able to differentiate and recognize similarities among them and across perspectives such as time, geography, and gender
- experience and develop the tools necessary to find, access, attend and critically respond to at least two arts events
- demonstrate understanding of selected readings from the artistic discipline(s)

B. Humanities

To fulfill the Humanities requirement, students will complete one (1) three-credit course in each of three areas: History, Literature and Philosophy or Religious Studies.

1. History

All students are required to take one (1) history course from a menu of approved history courses.

History Expected Undergraduate Student Learning Outcomes

Syllabi for courses meeting the Liberal Studies History requirement must identify the following Expected Undergraduate Student Learning Outcomes as *primary* objectives:

As Informed Learners students will demonstrate knowledge and understanding of:

- the past and present from historical, philosophical and social perspectives
- the interrelationships within and across cultures and global communities

As Empowered Learners students will demonstrate:

- ease with textual, visual and electronically-mediated literacies
- information literacy skills including the ability to access, evaluate, interpret and use information from a variety of sources
- the ability to transform information into knowledge and knowledge into judgment and action
- critical thinking skills including analysis, application and evaluation
- reflective thinking and the ability to synthesize information and ideas

As Responsible Learners students will demonstrate:

- intellectual honesty
- concern for social justice
- an understanding of the ethical and behavioral consequences of decisions and actions on themselves, on society and on the physical world
- an understanding of themselves and a respect for the identities, histories, and cultures of others

The following Expected Undergraduate Student Learning Outcomes are identified as secondary objectives for courses meeting the Liberal Studies History requirement:

As *Informed Learners* students will demonstrate knowledge and understanding of:

- the ways of modeling the natural, social and technical worlds
- the aesthetic facets of human experience
- the human imagination, expression and traditions of many cultures
- the interrelationships within and across disciplines

As Empowered Learners students will demonstrate:

- effective oral and written communication abilities
- problem solving skills using a variety of methods and tools
- the ability to work within complex systems and with diverse groups

As Responsible Learners students will demonstrate:

civic engagement

History Required Course Content

Proposals for courses designed to fulfill the Liberal Studies History requirement must:

- Place historical themes/eras within the larger context of civilization and its development, covering at least a period of one hundred years
- Treat several different aspects of history and their inter-relationships, e.g. political history, economic history, cultural history
- Integrate mainstream historical trajectories with aspects of race, ethnicity, class, and gender
- Treat concepts, themes and events in sufficient depth to enable students to appreciate the complexity of what is being studied; and not be merely cursory coverage of lists of topics
- Suggest the major intellectual questions/problems which interest practitioners of the discipline and explore critically the important theories and principles presented by the discipline
- Allow students to understand and apply the methods of inquiry and vocabulary commonly used in the discipline
- Make students aware of various and sometimes contradictory historical interpretations
- Communicate the importance of primary sources which express the thinking of men and women of different ages

Additionally, individuals proposing courses designed to fulfill the Liberal Studies History requirement are encouraged to include content that will:

- Develop students' historical consciousness, that is, an understanding of the interrelationship of various aspects of culture at a given time and an ability to explore continuity and change among historical events and movements
- Enable students to perceive contemporary experiences in historical perspective



2. Literature

Students are required to complete one (1) three-credit course from an approved menu of literature course options.

Literature Expected Undergraduate Student Learning Outcomes

Syllabi for courses meeting the Liberal Studies Literature requirement must identify the following Expected Undergraduate Student Learning Outcomes as *primary* objectives:

As Informed Learners students will demonstrate knowledge and understanding of:

- the aesthetic facets of human experience
- the human imagination, expression and traditions of many cultures

As Empowered Learners students will demonstrate:

- critical thinking skills including analysis, application and evaluation
- reflective thinking and the ability to synthesize information and ideas

As Responsible Learners students will demonstrate:

 an understanding of themselves and a respect for the identities, histories, and cultures of others

The following Expected Undergraduate Student Learning Outcomes are identified as secondary objectives for courses meeting the Liberal Studies Literature requirement:

As Informed Learners students will demonstrate knowledge and understanding of:

- the ways of modeling the natural, social and technical worlds
- the past and present from historical, philosophical and social perspectives
- the interrelationships within and across cultures and global communities

As Empowered Learners students will demonstrate:

- effective oral and written communication abilities
- ease with textual, visual and electronically-mediated literacies
- problem solving skills using a variety of methods and tools

As Responsible Learners students will demonstrate:

- intellectual honesty
- concern for social justice
- an understanding of the ethical and behavioral consequences of decisions and actions on themselves, on society and on the physical world

Literature Required Course Content

Proposals for courses designed to fulfill the Liberal Studies Literature requirement must include:

- works of imaginative literature, including poetry and fiction (whether novel, short story, or dramatic text)
- works by ethnic and racial minorities and women
- techniques that will foster students' ability to sustain engagement with a variety of literary works

 techniques that will foster students' ability to analyze and interpret literature independently and collaboratively

Additionally, individuals proposing courses designed to fulfill the Liberal Studies Literature requirement are encouraged to include content that will:

- a focus on a particular theme
- a focus on western or global literatures, or a mix of both
- works of creative non-fiction (technically defined)¹
- a mix of historical periods and cultures

<u>Literature Common Learning Objectives</u>

All courses meeting the Liberal Studies Literature requirement will establish course objectives stating:

At the conclusion of the course the student will understand aesthetic and imaginative facets of human experience by being able to:

- discuss the purposes and functions of literature within society
- recognize the power of finely controlled language beyond its informational dimension, such as its auditory, imagistic, affective, symbolic, and hermeneutic possibilities
- appreciate the ways in which one text can form the basis for multiple, sometimes competing, interpretations

Additional Recommendations:

For this multi-section course, it is recommended that the department collect and rate a valid random sample of assigned student writing. The assignment should demonstrate interpretive skill and aesthetic awareness, including the ability to define, explain, and apply literary terms or concepts through the use of textual examples.

To allow an appropriate level of group-work and class interaction, enrollment should be limited to 35 students.

¹ "Creative nonfiction" (also called "literary nonfiction" or "literary journalism") refers to an emergent but influential genre of literature. Unlike most nonfiction writing, which informs anonymously, works of creative nonfiction exhibit strong imagination, voice, and literary craft as well as documentable factuality.

Draft of Liberal Studies Criteria – for information

8/25/2009

3. Philosophy or Religious Studies

Students are required to complete one (1) Philosophy or Religious Studies course from the approved menu of courses.

Courses in this category must acquaint students with primary sources as appropriate and encourage the development of independent judgment and critical thinking. These courses must also acquaint students with the European/Euro-American Intellectual Heritage. Courses must have PHIL or RLST Prefix.

Courses in philosophy and religious studies should provide content that treats concepts, themes and events in sufficient depth to enable students to appreciate the complexity, history and current implications of what is being studied. These courses should also suggest the major intellectual questions/problems which interest practitioners of a discipline and explore critically the important theories and principles presented by the discipline. Students should be provided opportunities to understand and apply the methods of inquiry and vocabulary commonly used in the discipline and encouraged to use and enhance, wherever possible, the composition and mathematics skills built in the Learning Skill of Liberal Studies.

a. Philosophy

Philosophy Expected Undergraduate Student Learning Outcomes

Syllabi for courses meeting the Liberal Studies Philosophy requirement must identify the following Expected Undergraduate Student Learning Outcomes as *primary* objectives:

As Informed Learners students will demonstrate knowledge and understanding of:

- the past and present from historical, philosophical and social perspectives
- the interrelationships within and across disciplines

As Empowered Learners students will demonstrate:

- effective oral and written communication abilities
- ease with textual, visual and electronically-mediated literacies
- information literacy skills including the ability to access, evaluate, interpret and use information from a variety of sources
- the ability to transform information into knowledge and knowledge into judgment and action
- critical thinking skills including analysis, application and evaluation
- reflective thinking and the ability to synthesize information and ideas

As Responsible Learners students will demonstrate:

- intellectual honesty
- concern for social justice
- an understanding of the ethical and behavioral consequences of decisions and actions on themselves, on society and on the physical world
- an understanding of themselves and a respect for the identities, histories, and cultures of others

The following Expected Undergraduate Student Learning Outcomes are identified as secondary objectives for courses meeting the Liberal Studies Philosophy requirement:

As Informed Learners students will demonstrate knowledge and understanding of:

- the ways of modeling the natural, social and technical worlds
- the aesthetic facets of human experience
- the human imagination, expression and traditions of many cultures
- the interrelationships within and across cultures and global communities

As Empowered Learners students will demonstrate:

- problem solving skills using a variety of methods and tools
- the ability to work within complex systems and with diverse groups

As Responsible Learners students will demonstrate:

civic engagement

Philosophy Required Course Content

Proposals for courses designed to fulfill the Liberal Studies Philosophy requirement must:

- Introduce students to some of the great philosophers of Western civilization, avoiding excessive emphasis on one author or period of philosophical development
- Introduce students to some or all of the major areas of philosophy (aesthetics, epistemology, ethics, logic, and metaphysics)
- Courses which choose to emphasize one or more of these areas must do so in such a way as to show students the relationship among the various areas of philosophy
- Alternately, courses which choose to approach these areas of philosophy
 historically by examining one or more of the recognized historical periods in
 philosophy (e.g. ancient/medieval, modern or contemporary) must do so in such
 a way as to show students the contrasts and similarities with other periods
- Provide opportunities through the close analysis and evaluation of fundamental issues, for students to gain both an understanding of philosophy and an enhanced ability to think critically and responsibly about important issues.
- Investigate relationships with non-Western traditions and cultures where appropriate
- Give due attention to the philosophical work of women and minorities
- Use primary sources when feasible and appropriate

Philosophy Common Learning Objectives

All courses meeting the Philosophy requirement will establish course objectives stating:

At the conclusion of the course the student will be able to:

- comprehend and express the significance of a wide variety of experiences, situations, data, events, judgments, conventions, beliefs, rules, procedures and criteria
- identify the intended and actual inferential relationships among statements

- assess the credibility of statements and assessing the logical strength of the actual or intended inferential relationships among statements
- identify elements needed to draw reasonable conclusions and deducing the consequences that flow from premises
- present reasoning in the form of cogent arguments

b. Religious Studies

Religious Studies Expected Undergraduate Student Learning Outcomes

Syllabi for courses meeting the Liberal Studies Religious Studies requirement must identify the following Expected Undergraduate Student Learning Outcomes as *primary* objectives:

As Informed Learners students will demonstrate knowledge and understanding of:

- the past and present from historical, philosophical and social perspectives
- the human imagination, expression and traditions of many cultures
- the interrelationships within and across cultures and global communities

As *Empowered Learners* students will demonstrate:

- effective oral and written communication abilities
- ease with textual, visual and electronically-mediated literacies
- information literacy skills including the ability to access, evaluate, interpret and use information from a variety of sources
- the ability to transform information into knowledge and knowledge into judgment and action
- the ability to work within complex systems and with diverse groups
- critical thinking skills including analysis, application and evaluation
- reflective thinking and the ability to synthesize information and ideas

As Responsible Learners students will demonstrate:

- intellectual honesty
- concern for social justice
- an understanding of the ethical and behavioral consequences of decisions and actions on themselves, on society and on the physical world
- an understanding of themselves and a respect for the identities, histories, and cultures of others

The following Expected Undergraduate Student Learning Outcomes are identified as secondary objectives for courses meeting the Liberal Studies Religious Studies requirement:

As Informed Learners students will demonstrate knowledge and understanding of:

- the ways of modeling the natural, social and technical worlds
- the aesthetic facets of human experience
- the interrelationships within and across disciplines

As *Empowered Learners* students will demonstrate:

problem solving skills using a variety of methods and tools

As Responsible Learners students will demonstrate

civic engagement

Religious Studies Required Course Content

Proposals for courses designed to fulfill the Liberal Studies Religious Studies requirement must:

- Introduce students to the study of religion as a means to understanding Western culture and therefore to understanding themselves
- Provide a balanced, critical, nonsectarian examination of religion
- Emphasize an interdisciplinary approach to the study of religion
- Investigate the nature of religion and the forms of its expression or the foundational roots and development of one or more Western religious tradition(s) over a significant time span
- Investigate relationships with non-Western traditions and cultures where appropriate
- Give due attention to the religious involvement and perspectives of women and minorities
- Acquaint students with religious texts and documents as appropriate and encourage the development of independent judgment and critical evaluation of moral issues raised by these texts and by religious thinkers

Religious Studies Common Learning Objectives

All courses meeting the Religious Studies requirement will establish course objectives stating:

At the conclusion of the course the student will be able to:

- become informed about the cultural / religious heritage of our society and the historical and political ramifications of the Judeo-Christian heritage
- think critically about this heritage by careful attention to textual sources, artistic representations, autobiographical accounts, critical scholarly analyses and experiential study
- show the ability to apply this information through enhanced communication skills, reflection and synthetic thinking, and analytical-critical abilities
- develop and exercise responsible responses to the many challenges in a global society
- think critically about fundamental issues of human existence
- exhibit appropriate knowledge, skills and appreciation of religious studies as an academic discipline
- provide broad knowledge of the beliefs and practices of major world religions;
- provide general knowledge of the different methodological approaches to the study of religion
- demonstrate ability to write and research topics in our discipline

C. Natural Science

Students are required to complete two (2) courses in Natural Science. Unless specified by their major department or college, students may choose Natural Science Option 1 of eight credits (two lab science courses) or Option 2 of seven credits (one lab science course and one non-lab science course). With either option, students are not required to take the same science prefix for both courses unless that requirement is specified by their major department or college. Lab science courses cover a core set of laboratory practices and scientific methodology concepts and include a laboratory component for at least one credit.

In addition to these two required Natural Science courses, students must complete one additional Scientific Literacy Competency-Across-the-Curriculum (CAC) course. The Scientific Literacy CAC course may be accomplished in any other part of a student's curriculum including other Liberal Studies courses, major courses or electives.

1. Natural Science Lab-Science Courses

Lab-Science Courses Expected Undergraduate Student Learning Outcomes

Syllabi for all courses designed to meet the Liberal Studies Natural Science lab-science requirement must identify the following Expected Undergraduate Student Learning Outcomes as *primary* objectives:

As Informed Learners students will demonstrate knowledge and understanding of:

• the ways of modeling the natural, social and technical worlds

As Empowered Learners students will demonstrate:

- problem solving skills using a variety of methods and tools
- critical thinking skills including analysis, application and evaluation

As Responsible Learners

intellectual honesty

The following Expected Undergraduate Student Learning Outcomes are identified as secondary objectives for courses meeting the Liberal Studies Natural Science labscience requirement:

As *Informed Learners* students will demonstrate knowledge and understanding of:

the interrelationships within and across disciplines

As Empowered Learners students will demonstrate:

- effective oral and written communication abilities
- ease with textual, visual and electronically-mediated literacies
- information literacy skills including the ability to access, evaluate, interpret and use information from a variety of sources
- the ability to transform information into knowledge and knowledge into judgment and action

As Responsible Learners students will demonstrate:

 an understanding of the ethical and behavioral consequences of decisions and actions on themselves, on society and on the physical world

Lab Science Required Course Content

Courses designed to meet the Liberal Studies Natural Science lab-science requirement must:

- Examine a body of knowledge of natural science that will contribute to an
 understanding of the natural world and an appreciation of the impacts that natural
 sciences have on the lives of individuals and the world in which they live
- Provide students with an understanding of the emergence of scientific theories, their changing applications, and relationships among the natural sciences
- Ensure that students can formulate and test hypotheses
- Teach students to understand the appropriate role of science in decision making
- Provide an understanding of some of the "great moments" in the history of natural science and the individuals, including women and minorities, responsible for them
- Ensure that students learn, within a laboratory setting, to apply data-gathering techniques through their own observations
- Provide opportunities for students to develop skills in making accurate observations, in formulating concise and appropriate descriptions of natural phenomena, and in producing meaningful systems of classification for natural objects
- Provide students with opportunities to apply theories to practice in the working world of science

Additionally, individuals proposing courses to fulfill the Natural Science lab-science requirement are encouraged to include course material and instruction in which students:

- Present results in a variety of formats including textual, visual, and electronic
- Synthesize various forms of information gathered and analyzed, and determine its effects on society
- Transform information, including domain knowledge and observations, into models which use statistics, spreadsheets, tables, graphs, curve fitting, maps, and other electronically mediated literacies to explore hypotheses and draw conclusions
- Incorporate content from disciplines outside of traditional science areas
- Investigate relevance, application, and impact of science to student's life or field of study
- Develop skills in effective use of oral and written communication
- Apply problem solving and critical thinking skills to reach conclusions including understanding the ethical and behavioral consequences of decisions and actions on the students, society, and the physical world

Lab Science Common Learning Objectives

All courses designed to fulfill the Liberal Studies Natural Science lab-science requirement will establish the following common course learning objectives.

At the conclusion of the course the student will be able to:

- Analyze problems from the perspective of a natural scientist
- Understand a body of knowledge in a science domain
- Use laboratory and scientific methodology
- Formulate and test hypotheses
- Apply critical thinking skills including analysis, application, and evaluation to data from their own observations or from scholarly research sources
- Demonstrate an understanding of ways to model the natural, social and technical worlds
- Demonstrate problem solving skills using a variety of methods and tools
- Gather and organize data either from their own observations and/or from scholarly research sources
- Demonstrate an understanding of intellectual honesty in context of collecting laboratory data and the scientific method
- Demonstrate an understanding of the ethical and behavioral consequences of decisions and actions on themselves, society, and the physical world

2. Natural Science Non-lab Science courses

Non-lab Science Expected Undergraduate Student Learning Outcomes

Syllabi for courses meeting the Liberal Studies Natural Science non-lab course requirement must identify the following Expected Undergraduate Student Learning Outcomes as *primary* objectives:

As Informed Learners students will demonstrate knowledge and understanding of:

• the ways of modeling the natural, social and technical worlds

As Empowered Learners students will demonstrate:

- problem solving skills using a variety of methods and tools
- information literacy skills including the ability to access, evaluate, interpret and use information from a variety of sources
- critical thinking skills including analysis, application and evaluation

As Responsible Learners students will demonstrate:

- intellectual honesty
- an understanding of the ethical and behavioral consequences of decisions and actions on themselves, on society and on the physical world

The following Expected Undergraduate Student Learning Outcomes are identified as secondary objectives for courses meeting the Liberal Studies Natural Sciences non-lab requirement:

As Informed Learners students will demonstrate knowledge and understanding of:

the interrelationships within and across disciplines

As Empowered Learners students will demonstrate:

- effective oral and written communication abilities
- ease with textual, visual and electronically-mediated literacies
- the ability to transform information into knowledge and knowledge into judgment and action
- reflective thinking and the ability to synthesize information and ideas

Non-lab Science Required Course Content

Courses designed to meet the Liberal Studies Natural Science non-lab science requirement must:

- Examine a body of knowledge of natural science that will contribute to an
 understanding of the natural world and an appreciation of the impacts that natural
 sciences have on the lives of individuals and the world in which they live
- Provide an understanding of the emergence of scientific theories, their changing applications, and relationships among the natural science
- Ensure that students can formulate and test hypotheses
- Teach students to understand the appropriate role of science in decision making
- Provide an understanding of some of the "great moments" in the history of natural science and the individuals, including women and minorities, responsible for them
- Demonstrate the potential for misuse of science, as well as the many ways in which scientific knowledge helps solve problems
- Develop scientific methodology skills
- Apply methodology to challenging theoretical models and sets of data
- Help students develop an inquiring attitude consistent with the tenets of natural science, an attitude that is willing to expose fallacy on the basis of reason that demands evidence for scientific assertions, and yet is tolerant of hypotheses in the absence of contradictory evidence

Additionally, individuals proposing courses to fulfill the Natural Science non-lab science requirement are encouraged to include course material and instruction in which students:

- Present results in a variety of formats including textual, visual, and electronic
- Synthesize various forms of information gathered and analyzed, and determine its effects on society
- Transform information, including domain knowledge and observations, into models which use statistics, spreadsheets, tables, graphs, curve fitting, maps, and other electronically mediated literacies to explore hypotheses and draw conclusions
- Incorporate content from disciplines outside of traditional science areas

- Investigate relevance, application, and impact of science to student's life or field of study
- Develop skills in effective use of oral and written communication
- Apply problem solving and critical thinking skills to reach conclusions including understanding the ethical and behavioral consequences of decisions and actions on the students, society, and the physical world

Non-lab Science Common Learning Objectives

All courses designed to fulfill the Liberal Studies Natural Science non-lab science requirement will establish the following common course learning objectives.

At the conclusion of the course the student will be able to:

- Analyze problems from the perspective of a natural scientist
- Understand a body of knowledge in a science domain
- Use laboratory and scientific methodology
- Formulate and test hypotheses
- Apply critical thinking skills including analysis, application, and evaluation to data from their own observations or from scholarly research sources
- Demonstrate an understanding of ways to model the natural, social and technical worlds
- Demonstrate problem solving skills using a variety of methods and tools
- Identify sources of data, including the ability to access, evaluate, interpret and use information from a variety of sources
- Gather and organize data either from their own observations and/or from scholarly research sources
- Demonstrate an understanding of intellectual honesty in context of collecting laboratory data and the scientific method
- Demonstrate an understanding of the ethical and behavioral consequences of decisions and actions on themselves, society, and the physical world



D. Social Science

To fulfill the Social Science requirement, students will complete three (3) courses from the list of approved options. Courses in this area introduce students to central concepts and methods of inquiry used to study human behavior, social processes and social institutions. Additionally, courses will emphasize the use of theory and empirical analysis to address the complexity of human behavior and the variety and connectedness of individuals and social institutions. A course or departmental prefix may be repeated one time. Only one course with a student's major prefix can be used to satisfy the requirements for this category.

A course or departmental prefix may be repeated one time.

Social Science Expected Undergraduate Student Learning Outcomes

Syllabi for courses meeting the Liberal Studies Social Science requirement must identify the following Expected Undergraduate Student Learning Outcomes as *primary* objectives:

As Informed Learners students will demonstrate knowledge and understanding of:

- the ways of modeling the natural, social and technical worlds
- the past and present from historical, philosophical and social perspectives
- · the interrelationships within and across disciplines

As *Empowered Learners* students will demonstrate:

- problem solving skills using a variety of methods and tools
- critical thinking skills including analysis, application and evaluation
- reflective thinking and the ability to synthesize information and ideas

As Responsible Learners students will demonstrate:

- intellectual honesty
- an understanding of the ethical and behavioral consequences of decisions and actions on themselves, on society and on the physical world*
- an understanding of themselves and a respect for the identities, histories, and cultures of others

The following Expected Undergraduate Student Learning Outcomes are identified as secondary objectives for courses meeting the Liberal Studies Social Science requirement:

As *Informed Learners* students will demonstrate knowledge and understanding of:

- the human imagination, expression and traditions of many cultures
- the interrelationships within and across cultures and global communities

As Empowered Learners students will demonstrate:

- effective oral and written communication abilities
- ease with textual, visual and electronically-mediated literacies
- information literacy skills including the ability to access, evaluate, interpret and use information from a variety of sources

- the ability to transform information into knowledge and knowledge into judgment and action
- the ability to work within complex systems and with diverse groups

As Responsible Learners students will demonstrate:

concern for social justice

Social Science Required Course Content

All courses designed to fulfill the Liberal Studies Social Science requirements must include content and instruction that:

- Allows students to apply empirical methodology and a theoretical framework to the study of the origins, development and maintenance of individual human behavior and social groups, institutions, and organizations
- Promotes an understanding of individuals, groups and their physical and social environment by exploring and analyzing concepts developed in the discipline(s).
- Includes, where appropriate, discussion of other cultures and subcultures, underrepresented groups, minorities, and women
- Conveys the major concepts, models, and critical intellectual questions/debates within one, or more, of the recognized social science academic disciplines.

In addition, individuals proposing courses to fulfill the Liberal Studies Social Science requirements are encouraged to include information and instruction that:

- Examines the nature of the reciprocal determinism which exists between individuals and their social environments
- Explores the values and ethical issues that underlie individual behavior and the functioning of social, political, economic, and cultural organizations
- Examines the historical foundations and future implications of contemporary social issues

Social Science Common Learning Objectives

All courses designed to fulfill the Liberal Studies Social Science requirements will establish the following common course learning objectives.

At the conclusion of the course the student will be able to demonstrate knowledge and understanding of:

- the ways of modeling individual and social behavior
- The past and present from historical, philosophical and social perspectives
- the interrelationships within and across disciplines
- problem solving skills using a variety of methods and tools
- critical thinking skills including analysis, application and evaluation
- reflective thinking and the ability to synthesize information and ideas
- intellectual honesty

- the ethical and behavioral consequences of decisions and actions on themselves, on society and on the physical world and a respect for the identities, histories, and cultures of others
- themselves and a respect for the identities, histories, and cultures of others



E. Capstone

Students must complete one (1) course from the approved menu of Capstone courses in or out of their primary major. Students taking the Capstone through their major course of study will apply those credits to the major rather than Liberal Studies and those credits will also fulfill the Liberal Studies Capstone requirement.

Capstone Expected Undergraduate Student Learning Outcomes

Syllabi for courses meeting the Liberal Studies Capstone requirement must identify the following *Expected Undergraduate Student Learning Outcomes* as *primary* objectives:

As Informed Learners students will demonstrate knowledge and understanding of:

the interrelationships within and across disciplines

As Empowered Learners students will demonstrate:

- effective oral and written communication abilities
- problem solving skills using a variety of methods and tools
- information literacy skills including the ability to access, evaluate, interpret and use information from a variety of sources
- the ability to transform information into knowledge and knowledge into judgment and action
- reflective thinking and the ability to synthesize information and ideas

Additionally these courses will include as primary, at least one indicator from the Responsible Learner category of the Expected Undergraduate Student Learning Outcomes.

The following *Expected Undergraduate Student Learning Outcomes* are identified as *secondary* objectives for courses meeting the Liberal Studies Capstone requirement:

As Empowered Learners students will demonstrate:

- ease with textual, visual and electronically-mediated literacies
- the ability to work within complex systems and with diverse groups
- critical thinking skills including analysis, application and evaluation

Capstone Required Course Content

Proposals for courses designed to fulfill the Liberal Studies Capstone requirement must include:

- Reading/Research: designed to demonstrate the interrelationship within and across disciplines, problem solving, information literacy skills, and reflective thinking
- Problem Solving: The reading and research should be reported in the context of problem solving (a question to be studied, a problem to be resolved, or an issue to be carefully considered)

- Writing: With any capstone course, a formal, well-written product that demonstrates achievement of the primary objectives would be necessary. Such a paper would need to show reflective thinking about the topic and interrelationships within and across disciplines
- Performance-Based Project/Presentation/Community Service: Beyond writing, all
 projects include an experience that shares and/or applies the knowledge gained

Additionally, individuals proposing courses designed to fulfill the Liberal Studies Capstone requirement are encouraged to include:

- A variety of models such as student teaching, internships, research, performance arts, independent study, and study abroad
- Problem-based learning experiences that provide an opportunity to integrate disciplinary and LS knowledge. Opportunities to integrate the knowledge and express the ideas acquired throughout the college experience.
- Opportunities to either address issues in the community or to consider community/social implications of work
- A presentation of Capstone work outside of class (perhaps schedule time for this
 as a block exam time for all Capstone courses, and have a university-wide
 Capstone Festival where this work is presented)
- Significant group or "complex system" experiences



V. Competency-Across-the-Curriculum Categories

Students are required to complete courses that fulfill each of six (6) Competency-Across-the-Curriculum (CAC) Categories. Students are required to complete one course for each competency with the exception of the Written Communication Competency, for which students must complete two (2) courses. These competencies may be accomplished in any part of a student's curriculum including other Liberal Studies courses, major courses or electives with one exception. The exception is that one Written Communication Competency course must be completed in the student's primary major. A course may be designed enabling students to achieve two (2), but not more than two competencies within that course.

A. Global Citizenship Competency-Across-the-Curriculum

Proposals for courses designed to fulfill the Global Citizenship Competency-Across-the-Curriculum must identify the following Expected Undergraduate Student Learning Outcomes as primary objectives:

As Informed Learners students will demonstrate knowledge and understanding of:

- the interrelationships within and across cultures and global communities
- As *Empowered Learners* students will demonstrate:
 - information literacy skills including the ability to access, evaluate, interpret and use information from a variety of sources
 - critical thinking skills including analysis, application and evaluation
 - reflective thinking and the ability to synthesize information and ideas

As Responsible Learners students will demonstrate:

- intellectual honesty
- concern for social justice
- civic engagement
- an understanding of the ethical and behavioral consequences of decisions and actions on themselves, on society and on the physical world
- an understanding of themselves and a respect for the identities, histories, and cultures of others

The following Expected Undergraduate Student Learning Outcomes are identified as secondary objectives in Global Citizenship Competency-Across-the-Curriculum courses:

As Informed Learners students will demonstrate knowledge and understanding of:

- the aesthetic facets of human experience
- the past and present from historical, philosophical and social perspectives
- the human imagination, expression and traditions of many cultures
- the interrelationships within and across disciplines

As *Empowered Learners* students will demonstrate:

- effective oral and written communication abilities
- ease with textual, visual and electronically-mediated literacies

- problem solving skills using a variety of methods and tools
- the ability to transform information into knowledge and knowledge into judgment and action
- the ability to work within complex systems and with diverse groups

Global Citizenship CAC Required Course Content

Proposals for courses designed to fulfill the Global Citizenship Competency-Across-the Curriculum must include:

- A major emphasis on understanding the Non-Western World including the interrelationships within and across cultures and global communities
- An examination of issues related to diversity in gender, religion, politics, politics or economics
- A focus on describing and analyzing the problems of social justice and equity

Additionally, courses designed to fulfill the Global Citizenship Competency-Across-the Curriculum may include:

- Content that enables students to gain knowledge of the past and present and interrelations among cultures from an historical, philosophical, and social perspective
- A consideration of how the local relates to the global for the problems of environmental sustainability
- An understanding and a respect for the ways differing cultures establish and rely on systems of values, norms and ideals

Global Citizenship CAC Common Learning Objectives

All courses designed to fulfill the Global Citizenship Competency-Across-the Curriculum requirement will establish the following common course learning objectives.

At the conclusion of the course the student will be able to:

- Demonstrate a knowledge and understanding of the interrelationships within and across cultures and global communities
- Be able to explain and demonstrate knowledge of issues of diversity
- Be able to describe and analyze problems of social justice and equity

B. Information Literacy Competency-Across-the-Curriculum

IUP Information Literacy Competency Standards are outlined in Appendix I

Information Literacy CAC Expected Undergraduate Student Learning Outcomes

Proposals for courses designed to fulfill the Information Literacy Competency-Acrossthe-Curriculum must identify the following Expected Undergraduate Student Learning Outcomes as primary objectives:

As Informed Learners students will demonstrate knowledge and understanding of:

• the aesthetic facets of human experience

As *Empowered Learners* students will demonstrate:

- effective oral and written communication abilities
- ease with textual, visual and electronically-mediated literacies
- problem solving skills using a variety of methods and tools
- information literacy skills including the ability to access, evaluate, interpret and use information from a variety of sources
- the ability to transform information into knowledge and knowledge into judgment and action
- the ability to work within complex systems and with diverse groups
- critical thinking skills including analysis, application and evaluation
- reflective thinking and the ability to synthesize information and ideas

As Responsible Learners students will demonstrate:

- intellectual honesty
- an understanding of the ethical and behavioral consequences of decisions and actions on themselves, on society and on the physical world

The following Expected Undergraduate Student Learning Outcomes are identified as *secondary* objectives in Information Literacy Competency-Across-the-Curriculum courses:

As Informed Learners students will demonstrate knowledge and understanding of:

- the ways of modeling the natural, social and technical worlds
- the past and present from historical, philosophical and social perspectives
- the interrelationships within and across cultures and global communities
- the interrelationships within and across disciplines

As Responsible Learners student will demonstrate:

- concern for social justice
- civic engagement
- an understanding of themselves and a respect for the identities, histories, and cultures of others

Information Literacy CAC Required Course Content

Proposals for courses designed to fulfill the Information Literacy Competency-Acrossthe Curriculum must include:

Course pedagogy and assignments designed to address each of the five standards from the IUP Information Literacy Competency Standards approved by the IUP Senate in April 2003 (See Appendix I).

Additionally, individuals proposing courses designed to fulfill the Information Literacy Competency-Across-the-Curriculum courses are encouraged to include:

- The use of information resources other than assigned texts or classroom materials
- Interaction with the library's resources and/or with a librarian
- An understanding of how information is created organized and retrieved including both primary and secondary resources
- A pre-test and/or post test of information literacy skills and proficiency either conducted in each class or over a student's four years at IUP

All courses designed to fulfill the Information Literacy Competency-Across-the Curriculum requirement will establish the following common course learning objectives.

At the conclusion of the course the student will be able to:

- Identify and refine perceived information deficiencies, for example, what information is needed
- Identify and analyze sources of information, for example where is the information located
- Identify how the information will be obtained; and monitor the acquisition of information with an eye toward review and revision, for example when has enough information been gathered and evaluated
- Use efficient investigative methods to implement effective information search strategies
- Evaluate the quality of the information and use correct citation procedures
- Determine the veracity of supporting or conflicting information and viewpoints
- Incorporate appropriate information (regardless of format); revise interim result(s) as necessary and present the end result clearly and effectively to an intended audience

C. Oral Communication Competency-Across-the-Curriculum

Oral Communication CAC Expected Undergraduate Student Learning Outcomes

Proposals for courses designed to fulfill the Oral Communication Competency-Acrossthe-Curriculum must identify the following Expected Undergraduate Student Learning Outcomes as *primary* objectives:

As *Empowered Learners* students will demonstrate:

- effective oral and written communication abilities
- information literacy skills including the ability to access, evaluate, interpret and use information from a variety of sources
- reflective thinking and the ability to synthesize information and ideas

The following Expected Undergraduate Student Learning Outcomes are identified as *secondary* objectives in Oral Communication Competency-Across-the-Curriculum courses:

As Informed Learners students will demonstrate knowledge and understanding of:

- the interrelationships within and across cultures and global communities
- the interrelationships within and across disciplines

As Empowered Learning students will demonstrate:

- ease with textual, visual and electronically-mediated literacies
- the ability to work within complex systems and with diverse groups
- intellectual honesty

As Responsible Learners students will demonstrate:

 an understanding of themselves and a respect for the identities, histories, and cultures of others

Oral Communication CAC Required Course Content

Proposals for courses designed to fulfill the Oral Communication Competency-Acrossthe Curriculum must include:

- content as the primary focus but reinforce oral communication skills by using oral communication activities (OCAs) in a substantial way to enhance learning
- oral communication activities that are integrated into the course content and not an "add-on" at the end of the semester
- guidance for students on researching and organizing their oral communication activities in ways that are appropriate to the course content
- assessment criteria, grading rubrics, and sample assignment instructions
- at least 40% of the total course grade based on oral communication activities

The following assessment strategies/activities must be included in the course content:

 a minimum of three oral communication activities (OCA), including at least one team or group activity

- a minimum of 30 minutes devoted to OCAs with each activity being at least 5 minutes long
- an opportunity for feedback from the instructor after each OCA and prior to the next one
- an opportunity for a reflection paper or self-analysis by the student after at least one oral communication activity
- an opportunity for peer feedback after at least one oral communication activity
- at least one oral communication activity based on an assignment, such as a report or research paper

Additionally, courses designed to fulfill the Oral Communication Competency-Across-the Curriculum may include:

- Opportunities for the use of appropriate media and technology
- Opportunities to understand gender and cultural differences related to oral communication
- Opportunities for group problem-solving

Oral Communication CAC Common Learning Objectives

All courses meeting this competency will establish a course objective stating: At the conclusion of the course the student will be able to effectively communicate course content through appropriate written and oral communication activities.

Suggested Oral Communication Activities

- Facilitating a class discussion
- Extemporaneous presentations
- Individual or team debate
- Informational, persuasive or instructional presentation
- Mock Trial
- Poster Session
- Research presentation
- Field Study Presentation
- Facilitating a group activity
- Case Study report
- Business/Professional presentation
 - Staff reports, business plans, crisis plans, progress reports
- Evaluations or recommendations of programs or policies
- Review/report on book or article

D. Quantitative Reasoning Competency-Across-the-Curriculum

<u>Quantitative Reasoning CAC Expected Undergraduate Student Learning</u> <u>Outcomes</u>

Syllabi for courses designed to meet the Liberal Studies Quantitative Reasoning Competency-Across-the-Curriculum requirement must identify the following Expected Undergraduate Student Learning Outcomes as *primary* objectives:

As Informed Learners students will demonstrate knowledge and understanding of:

• the ways of modeling the natural, social and technical worlds

As *Empowered Learners* students will demonstrate:

- problem solving skills using a variety of methods and tools
- · critical thinking skills including analysis, application and evaluation

The following Expected Undergraduate Student Learning Outcomes are identified as secondary objectives for courses meeting the Liberal Studies Quantitative Reasoning Competency-Across-the-Curriculum requirement:

As Informed Learners students will demonstrate knowledge and understanding of:

the interrelationships within and across disciplines

As Empowered Learners students will demonstrate:

- the ability to transform information into knowledge and knowledge into judgment and action
- reflective thinking and the ability to synthesize information and ideas

Quantitative Reasoning CAC Required Course Content

Proposals for courses designed to fulfill the Liberal Studies Quantitative Reasoning Competency Courses must:

- Engage students in the interpretation, analysis and use of numerical and graphical data
- Introduce quantitative methods in field specific contexts
- Apply quantitative techniques to address problems within a specific discipline.
- Develop logical and deductive reasoning

Additionally, individuals proposing courses to meet the Quantitative Reasoning Competency Across-the-Curriculum are encouraged to include course content that will:

- Increase student confidence and ability in using numbers
- Promote understanding and use of mathematical formulas
- Introduce the appropriate use of technology as a tool in problem solving
- Enable informed, critical response to issues that can be addressed quantitatively
- Allow students to apply quantitative reasoning across multiple disciplines
- Enable students to apply quantitative reasoning to practical problems

Quantitative Reasoning CAC Common Learning Objectives

All courses proposed to fulfill the competency must establish the following common learning objectives:

At the conclusion of the course the student will be able to:

- interpret, analyze and use numerical data and graphs
- understand quantitative methodology within the field addressed by the course
- apply quantitative reasoning to a problem within a specific discipline
- critically assess the validity of an argument based on quantitative analysis

E. Scientific Literacy Competency-Across-the-Curriculum

Scientific Literacy CAC Expected Undergraduate Student Learning Outcomes

Syllabi for courses designed to meet the Liberal Studies Scientific Literacy Competency-Across-the-Curriculum requirement must identify the following Expected Undergraduate Student Learning Outcomes as *primary* objectives:

As Informed Learners students will demonstrate knowledge and understanding of:

• the interrelationships within and across disciplines

As *Empowered Learners* students will demonstrate:

- problem solving skills using a variety of methods and tools
- information literacy skills including the ability to access, evaluate, interpret and use information from a variety of sources
- critical thinking skills including analysis, application and evaluation

As Responsible Learners

 an understanding of the ethical and behavioral consequences of decisions and actions on themselves, on society and on the physical world

The following Expected Undergraduate Student Learning Outcomes are identified as secondary objectives for courses meeting the Liberal Studies Scientific Literacy Competency-Across-the-Curriculum requirement:

As Informed Learners students will demonstrate knowledge and understanding of:

the ways of modeling the natural, social and technical worlds

As Empowered Learners students will demonstrate:

- ease with textual, visual and electronically-mediated literacies
- the ability to transform information into knowledge and knowledge into judgment and action
- reflective thinking and the ability to synthesize information and ideas

As Responsible Learners students will demonstrate:

• concern for social justice

Scientific Literacy CAC Required Course Content

Proposals for courses designed to fulfill the Scientific Literacy Competency-Across-the Curriculum must:

- Have at least 50% of the course content be scientific domain knowledge as employed in the investigation of the course subject matter
- Investigate relevance, application, and impact of science to student's life or field of study
- Incorporate content from disciplines outside of traditional science areas
- Apply problem solving and critical thinking skills to reach conclusions including understanding the ethical and behavioral consequences of decisions and actions on the students, society, and the physical world

 Include several specific assignments in which students use inductive or deductive approaches that require students to make their own observations and/or collect and analyze data (e.g. formulate and test hypotheses) from existing scholarly research sources

Additionally, Scientific Literacy Competency-Across-the Curriculum courses:

- Can be laboratory or non-laboratory
- Cannot be courses taken to fulfill the Liberal Studies Natural Science requirement

Additionally, individuals proposing courses to fulfill the Scientific Literacy Competency-Across-the Curriculum courses are encouraged to include:

- Opportunities to present results in a variety of formats including textual, visual, and electronic
- Opportunities to synthesize various forms of information gathered and analyzed, and determine its effects on society
- Course content that requires students to transform information, including domain knowledge and observations, into models which use statistics, spreadsheets, tables, graphs, curve fitting, maps, and other electronically mediated literacies to explore hypotheses and draw conclusions
- Content to provide students an understanding of some of the "great moments" in the history of science and the individuals, including women and minorities, responsible for them

Scientific Literacy CAC Common Learning Objectives

All courses meeting this competency will establish course objectives stating:

At the conclusion of the courses students will be able to:

- Analyze problems from the perspective of a natural scientist
- Demonstrate knowledge and understanding of the significance and relationship of science to their field of study
- Demonstrate problem solving skills using a variety of methods and tools
- Identify sources of data, including the ability to access, evaluate, interpret and use information from a variety of sources
- Gather and organize data either from their own observations or from scholarly research sources
- Demonstrate an understanding of the ethical and behavioral consequences of decisions and actions on themselves, society, and the physical world

F. Written Communication Competency-Across-the-Curriculum

<u>Written Communication CAC Expected Undergraduate Student Learning Outcomes</u>

Syllabi for courses designed to meet the Liberal Studies Written Communication Competency-Across-the-Curriculum requirement must identify the following Expected Undergraduate Student Learning Outcomes as *primary* objectives:

As *Empowered Learners* students will demonstrate:

- effective oral and written communication abilities
- information literacy skills including the ability to access, evaluate, interpret and use information from a variety of sources
- critical thinking skills including analysis, application and evaluation
- reflective thinking and the ability to synthesize information and ideas

As Responsible Learners students will demonstrate:

intellectual honesty

The following Expected Undergraduate Student Learning Outcomes are identified as secondary objectives for courses meeting the Liberal Studies Written Communication Competency-Across-the-Curriculum requirement:

As Informed Learners students will demonstrate knowledge and understanding of:

• the interrelationships within and across disciplines

As *Empowered Learners* students will demonstrate:

- ease with textual, visual and electronically-mediated literacies
- problem solving skills using a variety of methods and tools
- the ability to transform information into knowledge and knowledge into judgment and action
- the ability to work within complex systems and with diverse groups

As Responsible Learners students will demonstrate:

- concern for social justice
- civic engagement
- an understanding of the ethical and behavioral consequences of decisions and actions on themselves, on society and on the physical world
- an understanding of themselves and a respect for the identities, histories, and cultures of others

Written Communication CAC Required Course Content

Proposals for courses designed to fulfill the Liberal Studies Written Communication Competency-Across-the-Curriculum requirement must include

 Carefully designed writing assignments that increase student learning and enhance student ability to write. The types of assignments must include both writing to learn and writing to communicate

- Guidance to students in conceiving, organizing, and presenting written material in ways appropriate to the subject being studied
- Attention to both the process and product of writing. Intervention in the writing
 process, particularly in its early stages, is a highly effective way of helping
 students produce better written work. For example, students can be assisted
 with task definition, topic selection, information gathering, organization and
 formatting, and revision strategies. Major assignments should have clearly
 defined stages of preparation and regular progress reviews
- Ample opportunities for students to improve their writing skills and to have at least 5000 words (approximately 15-20 typed pages) comprising two or more separate assignments, at least one of which involves sequenced components, evaluated by an instructor. Depending on the nature of the course, appropriate writing assignments may include such formats as case studies, laboratory reports, journals, letters, memos, formal essays, research articles, project or grant proposals, and so forth. A sequenced assignment must build on itself so that students are involved in each step of the writing process
- An opportunity for students to revise at least one of their writing assignments after receiving comments geared towards revision from the professor.
- At least one assignment that requires students to produce finished, edited prose, with whatever informal or draft writing is appropriate
- The improvement of writing as a course objective in the syllabus.
- Criteria for evaluation of major assignments, including specific written instructions
- Written assignments that compose a major part of the final grade; in most cases, this should be 50% or more

Written Communication CAC Common Learning Objectives

All courses meeting this competency will establish common course objectives stating:

At the conclusion of the course the student will be able to:

- Effectively communicate in writing, including development, focus, organization, and clarity, both in and outside of the discipline
- Respond critically and analytically to materials and sources relevant to the course content and design
- Understand and apply the appropriate process for using, attributing, and documenting sources
- Discuss/critique their own writing
- Develop a piece of writing for his/her e-portfolio using instructor feedback

The National Council of Teachers of English recommends class sizes of no more than 20 for composition courses. With this in mind, W courses should have no more than 25 students per section.

Appendix I

IUP Information Literacy Competency Standards

Adapted 12/14/01 from the Association of College and Research Libraries, 2000; Approved by IUP Senate, April 2003

<u>Standard 1:</u> The information literate person determines the nature and extent of the information needed.

Performance Indicators: The information literate person:

- 1. defines and articulates the need for information.
- 2. identifies a variety of types and formats of potential sources for information.
- 3. considers the costs and benefits of acquiring the needed information.
- 4. reevaluates the nature and extent of the information need.

Outcomes Include:

The person is able to identify and refine perceived information deficiencies, i.e., what information is needed; identify and analyze sources of information, i.e., where is the information located; analyze the financial and logistic implications of acquiring information, i.e., how will the information be obtained; and monitor the acquisition of information with an eye toward review and revision, i.e., when has enough information been gathered and evaluated

<u>Standard 2</u>: The information literate person accesses needed information effectively and efficiently.

Performance Indicators: The information literate person:

- 1. selects the most appropriate investigative methods or information retrieval systems for accessing the needed information.
- 2. constructs and implements effectively-designed search strategies.
- 3. retrieves information online or in person using a variety of methods.
- 4. refines the search strategy if necessary.
- 5. extracts, records, and manages the information and its sources.

Outcomes Include:

Using efficient investigative methods, the person will implement effective information search strategies that will be beneficial in extracting and managing needed information. The research plan will utilize effective keywords, discipline-specific vocabulary, and a variety of search systems including library sources, online search engines, and other forms of inquiry, i.e., surveys and interviews. The person will evaluate the quality of the information and use correct citation procedures.

<u>Standard 3:</u> The information literate person evaluates information and its sources critically and incorporates selected information into his or her knowledge base and value systems.

Performance Indicators: The information literate person:

1. summarizes the main ideas to be extracted from the information gathered.

- 2. articulates and applies initial criteria for evaluating both the information and its sources.
- 3. synthesizes main ideas to construct new concepts.
- 4. compares new knowledge with prior knowledge to determine the value added, contradictions, or other unique characteristics of the information.
- 5. determines whether the new knowledge has an impact on the individual's value system and takes steps to reconcile differences.
- 6. validates understanding and interpretation of the information through discourse with other individuals, subject area experts, and/or practitioners.
- 7. determines whether the initial query should be revised.

Outcomes Include:

The person will have an understanding of relevant information and the evaluation of the resource where the information was found as the first step to being able to then manipulate the information in various multimedia or software programs. The person will then determine supporting or conflicting information and viewpoints through comparison of information or discussion with others, in order to conclude whether or not the need for information has been satisfied.

<u>Standard 4</u>: The information literate person, individually or as a member of a group, uses information effectively to accomplish a specific purpose.

Performance Indicators: The information literate person:

- 1. applies new and prior information to the planning and creation of a particular product or performance.
- 2. revises the development process for the product or performance.
- 3. communicates the product or performance effectively to others.

Outcomes Include:

The person is able to plan and efficiently organize for an end result; incorporates all appropriate information (regardless of format); revises interim results(s) as necessary and is able to present the end result clearly and effectively to an intended audience.

<u>Standard 5:</u> The information literate person understands context, meaning, many of the economic, legal, and social issues surrounding the use of information and accesses and uses information ethically and legally.

Performance Indicators: The information literate person:

- 1. understands many of the ethical, legal, and socio-economic issues surrounding information and information technology.
- 2. follows laws, regulations, institutional policies, and etiquette related to the access and use of information resources.
- 3. acknowledges the use of information sources in communicating the product or performance.

Outcomes include:

The person should know and respect privacy rights, netiquette, and copyrights. The person should also understand censorship and plagiarism issues. Finally, the information literate person must also know how to cite sources appropriately.

Draft of Liberal Studies Criteria – for information