08-711

LSC Use Only No:	LSC Action-Date:	UWUCC USE Only No.	UWUCC Action-Date:	Senate Action Date:
		~~07-43~~	App - 10/14/08	App - 2/24/09

Curriculum Proposal Cover Sheet - University-Wide Undergraduate Curriculum Committee

Contact Person	Email Address
John F. Taylor	jftaylor@iup.edu
Proposing Department/Unit	Phone
Geosciences - Natural Sciences and Mathematics	724-357-4469

Check all appropriate lines and complete information as requested. Use a separate cover sheet for each course proposal and for each program proposal.

1. Course Proposals (check all that apply)

_X_ New Course _____ Course Prefix Change _____ Course Deletion

_____ Course Revision _____ Course Number and/or Title Change _____ Catalog Description Change

	GEOS 403 Newfoundland Seminar
***Current* Course prefix, number and full title**	***Proposed* course prefix, number and full title, if changing**

2. Additional Course Designations: check if appropriate

_____ This course is also proposed as a Liberal Studies Course.

_____ This course is also proposed as an Honors College Course.

_____ Other: (e.g., Women's Studies, Pan-African)

3. Program Proposals

_____ Catalog Description Change _____ Program Revision

_____ New Degree Program _____ Program Title Change _____ Other

_____ New Minor Program _____ New Track

***Current* program name**	***Proposed* program name, if changing**

4. Approvals		**Date**
Department Curriculum Committee Chair(s)		2/4/08
Department Chair(s)		2/4/08
College Curriculum Committee Chair		2-11-08
College Dean		2-11-08
Director of Liberal Studies *		
Director of Honors College *		
Provost *		
Additional signatures as appropriate: (include title)		
UWUCC Co-Chairs	Gail S Sechrist	10/14/08

* where applicable

Received SEP 25 2008 Liberal Studies

Received FEB 14 2008 Liberal Studies

Part II. Description of Curricular Change

1. SYLLABUS OF RECORD

I. Catalog Description

GEOS 403 Newfoundland Seminar 1c-0l-1cr

Prerequisite: Grade of C or better in GEOS 201 and GEOS 202; instructor permission required

A seminar introduction to the geology and tectonic history of Newfoundland and Labrador. Includes instruction in the methods and concepts employed in delineation and genetic interpretation of stratigraphic units. Designed to prepare students specifically for GEOS 404.

II. Course Objectives

At the end of this course students will be able to:

1) Summarize the regional geology of Newfoundland and Labrador from a modern, Plate Tectonic perspective, and a familiarity with scientific controversy concerning their geologic history.

2) Create detailed descriptions and interpretations of highly varied rock types and geologic features observed in the region.

3) Synthesize, from the stratigraphic units recognized in Newfoundland and Labrador, a coherent tectonic history of the northern Appalachian region.

4) Employ basic skills used during stratigraphic field studies and investigations, including but not limited to creation of detailed measured sections, genetic interpretation of lithofacies, and construction of stratigraphic cross sections.

5) Recognize and understand the origin and significance of the broad spectrum of features produced by glacial and periglacial processes.

III. Course Outline

Part A (6 academic hours): Skills and Observations

1. Detailed description and genetic interpretation of sedimentary facies
2. Preparation of a detailed measured section using basic trigonometric methods
3. The stratigraphic code and basic methods for physical and temporal correlation

Part B (7 academic hours): Introduction to the Geology and Tectonic Setting of Newfoundland

1. Stratigraphy and geologic history of the Humber Zone in western Newfoundland
2. Stratigraphy and geologic history of the Dunnage and Gander terranes of central Newfoundland
3. Stratigraphy and geologic history of the Avalon terrane of eastern Newfoundland
4. Glacial and periglacial processes and the features they produce.

Final exam during final class period (1 academic hour)

IV. Evaluation Methods

Each component of the course will contribute to final grade according to:

Final Exam	50%
Practical Exercises	50%
Total	100%

The final grade for this course will be determined using the following schedule:

A=90-100%; B=80-89%, C=70-79%, D=60-69%, F=<60%

V. Attendance Policy

The attendance policy will conform to IUP's undergraduate course attendance policy.

VI. Required textbooks, supplemental books and readings

There will be no required textbook for this class. Students will read a compilation of papers and chapters from the list below, as well as others relevant to the specific projects to be conducted during GEOS 404.

VII. Special resource requirements

There are no special resource requirements for this course.

VIII. Bibliography

The following will be among the published resources used to develop the course curriculum:

Batterson, M., Taylor, D., Bell, T., Brushett, D., and Shaw, J. (2006) Regional ice-flow mapping, surficial geology, and till geochemistry of the northern Burin Peninsula and adjacent Placentia Bay: Newfoundland and Labrador Department of Natural Resources Geological Survey, Report 06-1, p. 161-176.

James, N.P. and Stevens, R.K. (1986) Stratigraphy and correlation of the Cambro-Ordovician Cow Head Group, western Newfoundland: Geological Survey of Canada Bulletin 366, 143p.

James, N.P., Stevens, R.K., Barnes, C.R., and Knight, I. (1989) Evolution of a Lower Paleozoic continental-margin carbonate platform, northern Canadian Appalachians: *In* Crevello, P.D., Wilson, J.L., Sarg, J.F. and Read, J.F. (eds.) Controls on carbonate platform and basin development: SEPM Special Publication 44, p. 123-146.

Malpas, J. (1987) The Bay of Islands ophiolite: a cross section through Paleozoic crust and mantle in western Newfoundland: Geological Society of America Centennial Field Guide – Northeastern Section, p.451-456.

Myrow, P.M. and Hiscott, R.N. (1993) Depositional history and sequence stratigraphy of the Precambrian-Cambrian boundary stratotype section, Chapel Island Formation, southeastern Newfoundland: Palaeogeography, Palaeoclimatology, and Palaeoecology, v. 104, p. 13-35.

Sparkes, G.W. (2006) Late Neoproterozoic Geology of the east coast of Conception Bay, Newfoundland, Avalon Zone: Newfoundland and Labrador Department of Natural Resources Geological Survey, Report 06-1, p. 265-279.

Stenzel, S.R., Knight, I., and James, N.P. (1990) Carbonate platform to foreland basin: revised stratigraphy of the Table Head Group (Middle Ordovician), western Newfoundland: Canadian Journal of Earth Sciences, v. 27, p. 14-26.

Von Bitter, P. H., Scott, S.D., and Schenk, P.E. (1992) Chemosynthesis: an alternate hypothesis for Carboniferous biotas in bryozoan/microbial mounds, Newfoundland, Canada: Palaios, Vol. 7, p. 466- 484.

Westrop, S.R. and Landing, E. (eds.) (1998) Avalon 1997 – The Cambrian standard: New York State Museum Bulletin 492, 92p.

Course Analysis Questionnaire

Section A: Details of the Course

A1. How does this course fit into the programs of the department? For which students is the course designed? Explain why his course cannot be incorporated into an existing course.

This course is designed as a prerequisite for GEOS 404 Newfoundland Field Workshop [currently listed as GEOS 337; see attached Course Revision Proposal] in order to prepare students for the field-based exercises conducted in that class. One goal of the Geoscience Department's program revisions is to make field-based courses more accessible to students earlier in their IUP career.

This course is designed to provide a common knowledge base and skill set for majors and minors of all levels who may then take GEOS 404.

A2. Does this course require changes in the content of existing courses or requirements for a program?
This course does not require changing the existing content of any other courses or requirements for any program.

A3. Has this course been offered at IUP on a trial basis?
This course has never been offered in the Geoscience Department.

A4. Is this course to be a dual-level course?
This course is not a dual-level course.

A5. If this course may be taken for variable credit, what criteria will be used to relate the credits to the learning experience of each student?
This course cannot be taken for variable credit.

A6. Do other higher education institutions currently offer this course? If so, please list examples.
Virtually all higher education institutions with programs in geology or earth sciences offer courses in the geology of particular regions of interest. These courses come in a number of forms from strictly field-based courses, to classroom lecture/seminar courses, to combinations of both.

A7. Is the content, or are the skills, of the proposed course recommended or required by a professional society, accrediting authority, law or other external agency?
No professional society, accrediting authority, law or other external agency recommends or requires any specific content or skills for this course.

Section B: Interdisciplinary Implications

B1. Will this course be taught by instructors from more than one department?
This course will be taught by one instructor from the Geoscience Department.

B2. What is the relationship between the content of this course and the content of courses offered by other departments?
There is no overlap between the content of this course and that of other courses offered by other departments.

B3. Will this course be cross-listed with other departments?
This course will not be cross-listed with any other department.

B4. Will seats in this course be made available to students in the School of Continuing Education?
Seats in this course will not be available to students in Continuing Education.

Section C: Implementation

C1. Are faculty resources adequate?
Faculty resources are currently adequate to teach this course. This course will be counted as one preparation and one hour of equated workload.

C2. What other resources will be needed to teach this course and how adequate are the current resources?

a. Classroom space is currently adequate to teach this course.
b. There is no special equipment required to teach this course.
c. There are no laboratory supplies or other consumable goods required for this course beyond those already possessed by the Geoscience Department.
d. Library materials are currently adequate for this course.
e. There will be no additional travel expenses.

C3. Are any of the resources for this course funded by a grant?

No resources for this course are currently funded by a grant.

C4. How frequently do you expect this course to be offered?

The department expects that this course will be offered every other year.

C5. How many sections of this course do you anticipate offering in any single semester?

We anticipate offering a single section of this course in a given semester.

C6. How many students do you plan to accommodate in a section of this course?

We plan to accommodate no more than 24 students in this course. This is the maximum number of students that can be accommodated in the Geoscience Department's teaching laboratory rooms.

C7. Does any professional society recommend enrollment limits or parameters for a course of this nature?

No professional society recommends enrollment limits or parameters for this course.

C8. Not applicable.

Section D: Miscellaneous

None.

Part III. Letters of Support or Acknowledgment

There are no letters in the attached program revisions that directly pertain to this new course.