TO: Antionet Mortara
FROM: Judy Strother
DATE: November 11, 2004

SUBJECT: Creation of a bi-level course for HUM 4510 and HUM 5510

The Humanities and Communication Department requests approval of HUM 4510 and HUM 5510 Recent Issues in Logic as a bi-level course under the conditions of Section 4.5.3 of the Graduate Policy Manual. This course is deemed by the Department “to be equally appropriate at either the undergraduate or the graduate level, and hence suitable for enrollment by undergraduates regardless of grade point average, subject only to the usual prerequisites and similar requirements, including ‘permission of the instructor.’”

The assignments and depth of analysis will be different for undergraduate and graduate students, as reflected in the attached syllabi. Dr. Aberdein has also assured me that the examinations will require greater depth of understanding of the graduate students.

Even with the noted differences, in no way will it be detrimental to graduate students to have suitable undergraduate students in the course, nor will the content be over the heads of the undergraduate students.

Any undergraduate student who takes this course and then seeks a Master’s Degree from Florida Tech will not be allowed to repeat this course for credit toward the graduate degree.

Approved:

[Signature]
Andrew Aberdein, Course Originator

[Signature]
Nabil Matar, Head, Department of Humanities and Communication

[Signature]
Gordon Nelson, Dean, College of Science and Liberal Arts
**Florida Institute of Technology**

**ADDING A NEW COURSE TO THE CURRICULUM**

This course is available for student registration only after the approval process has been completed.

<table>
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<tr>
<th>Subject</th>
<th>Course No. 4510</th>
<th>Credit Hours 3</th>
<th>Term to be added to the file Fall 2005 (e.g., Fall 2003)</th>
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Class Hours 3 Lec/Time Hours 3 Lab Hours Contact Hours (CEU only)

Department: Humanities and Communication Schedule Type: Lecture

(e.g., Computer Sciences) (e.g., lecture, lab or special project)

College/School
- [ ] College of Engineering-01
- [ ] College of Science and Liberal Arts (science)-20
- [ ] College of Science and Liberal Arts (liberal arts)-21
- [ ] School of Aeronautics-03
- [ ] SEGS-90
- [ ] School of Management-22
- [ ] School of Psychology-05

Computer Title (restricted to 25 spaces, including blanks)
Recent Issues in Logic

Catalog Title
Recent Issues in Logic

Catalog Description of Course (limited to 350 characters, including spaces)
Introduces the many competing systems of logic recently developed and advocated. Also addresses the debate inspired by logical pluralism.

In addition, you may attach a course syllabus and/or more detailed description.

Restrictions
- [ ] Prerequisite HUM 2510 or (course number)
- [ ] Corequisite (course number)
- [ ] Prerequisite ECE 1551 (course number)
- [ ] Corequisite (course number)
- [ ] Prerequisite (course number)
- [ ] Corequisite (course number)

Grades to be issued
- [ ] A, B, C, D, F
- [ ] S, U
- [ ] P, F
- [ ] Other

Additional Restriction or permission of the instructor

(e.g., major, class level, department head approval)

If this course replaces a course currently offered in BANNER, please indicate old course information

Subject Alpha Prefix (e.g., CSE) Course No. (e.g., 1301)

**APPROVALS**

Upon completion of appropriate department approvals, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee for approval below and forward to Catalog Coordinator.

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Department Head/Program Chair

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<th>Chair, Undergraduate Curriculum Committee</th>
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**CATALOG COORDINATOR**

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**REGISTRAR'S USE ONLY**

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**SCARES** Operator Init Date

Florida Institute of Technology • Office of the Registrar
150 West University Boulevard, Melbourne, FL 32901-6975 • (321) 674-8136 • Fax (321) 674-7827

RG-907-6031
Class Time
5–6.15pm Tuesday & Thursday

Course Description
Introduces the many competing systems of logic recently developed and advocated. Also addresses the debate inspired by logical pluralism.

Required Text
Graham Priest An Introduction to Non-Classical Logic

Recommended Text
Lou Goble The Blackwell Guide to Philosophical Logic
(Blackwell, 2001) 520pp $34.95 ISBN: 0631206930

Grading
As usual, 90%+ = A; 80–89% = B; 70–79% = C; 60–69% = D; 0–59% = F.

1. First Midterm Exam (Sixth Week);
2. Second Midterm Exam (Eleventh Week);
3. Final Exam (Time TBA)—the date of this exam has already been fixed and cannot be changed;
4. Your five best quiz marks;
   will each contribute one quarter to the overall grade.

Course Outline
1 WEEKS 1–3: Refresher on propositional and first order classical logic
READ: Priest, Chp 1
(Supplemental: Goble, Chp 1)

2 WEEKS 4–6: Modal logics
READ: Priest, Chp 2, 3, & 4
(Supplemental: Goble, Chp 7)

3 WEEKS 7–8: Intuitionistic logic
READ: Priest, Chp 6
(Supplemental: Goble, Chp 11)

4 WEEKS 9–11: Many-valued and fuzzy logics
READ: Priest, Chp 7 & 11
(Supplemental: Goble, Chp 14)

5 WEEKS 12–14: Paraconsistent and relevant logics
READ: Priest, Chp 8, 9 & 10
(Supplemental: Goble, Chp 13)

6 WEEKS 15–16: Quantum and Non-monotonic logics
READ: Handout
(Supplemental: Goble, Chp 15)