New Course Request

Undergraduate credit [X]  Graduate credit [ ]  Professional credit [ ]

1. School/Division [ ] science
2. Academic Subject Code [ ] MATH
3. Course Number [373] (must be cleared with University Enrollment Services)
4. Instructor [William Cross]
5. Course Title [Financial Mathematics]
6. First time this course is to be offered (Semester/Year): [Spring/2009]
7. Credit Hours: Fixed at [X] 3 [ ] or Variable from [ ] to [ ]
8. Is this course to be graded S-F (only)? Yes [ ] No [X]
9. Is variable title approval being requested? Yes [ ] No [X]
10. Course description (not to exceed 50 words) for Bulletin publication:


11. Lecture Contact Hours: Fixed at [X] 3 [ ] or Variable from [ ] to [ ]
12. Non-Lecture Contact Hours: Fixed at [ ] or Variable from [ ] to [ ]
13. Estimated enrollment: [15] of which [0] percent are expected to be graduate students.
14. Frequency of scheduling: [Spring] Will this course be required for majors? Yes-for actuarial science
15. Justification for new course: [To align with Purdue course]
16. Are the necessary reading materials currently available in the appropriate library? Yes
17. Please append a complete outline of the proposed course, and indicate instructor (if known), textbooks, and other materials.
18. If this course overlaps with existing courses, please explain with which courses it overlaps and whether this overlap is necessary, desirable, or unimportant.
19. A copy of every new course proposal must be submitted to departments, schools, or divisions in which there may be overlap of the new course with existing courses or areas of strong concern, with instructions that they send comments directly to the originating Curriculum Committee. Please append a list of departments, schools, or divisions thus consulted.

Submitted by:

[Signature]
[Department Chairman/Division Director]

Date 9/3/08

Approved by:

[Signature]
[Dean]

Date 10/3/08

Dean of Graduate School (when required)

Date

Chancellor/Vice-President

Date

University Enrollment Services

Date

After School/Division approval, forward the last copy (without attachments) to University Enrollment Services for initial processing, and the remaining four copies and attachments to the Campus Chancellor or Vice-President.

R.81 02000 UPS 724 University Enrollment Services Final—White; Chancellor/Vice-President—Blue; School/Division—Yellow; Department/Division—Pink; University Enrollment Services Advance—White
### PURDUE UNIVERSITY
REQUEST FOR ADDITION, EXPIRATION, OR REVISION OF AN UNDERGRADUATE COURSE
(10000-40000 LEVEL)

### DEPARTMENT: Mathematical Sciences
EFFECTIVE SESSION: Spring 2009

#### INSTRUCTIONS:
Please check the items below which describe the purpose of this request.

- [X] 1. New course with supporting documents
- [X] 2. Add existing course offered at another campus
- 3. Expiration of a course
- 4. Change in course number
- 5. Change in course title
- 6. Change in course credit type
- 7. Change in course attributes (department head signature only)
- 8. Change in instructional hours
- 9. Change in course description
- 10. Change in course requisites
- 11. Change in semesters offered (department head signature only)
- 12. Transfer from one department to another

#### PROPOSED:

<table>
<thead>
<tr>
<th>Subject Abbreviation</th>
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<tbody>
<tr>
<td>Math</td>
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<table>
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<tr>
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<td>373</td>
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<table>
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<tr>
<th>Long Title</th>
<th>Short Title</th>
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<tr>
<td>Financial Mathematics</td>
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Abbreviated title will be entered by the Office of the Registrar if omitted. (20 CHARACTERS ONLY)

#### CREDIT TYPE:

1. Fixed Credit: Cr. Hrs.
   - 3

2. Variable Credit Range:
   - Minimum Cr. Hrs.
   - (Check One) To
   - Maximum Cr. Hrs.
   - Yes
   - No

#### TERMS OFFERED:
Check All That Apply:

- Summer
- Fall
- Spring

#### CAMPUS(ES) INVOLVED:
- Calumet
- Cont Ed
- N. Central
- Tech Statewide
- Ft. Wayne
- W. Lafayette
- Indianapolis

#### COURSE ATTRIBUTES:
Check All That Apply:

- 1. Pass/No Pass Only
- 2. Satisfactory/Unsatisfactory Only
- 3. Repeatable
- 4. Credit by Examination
- 5. Special Fees
- 6. Registration Approval Type
  - Department
  - Instructor
- 7. Variable Title
- 8. Honors
- 9. Full Time Privilege
- 10. Off Campus Experience

#### COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):


#### Cross-Listed Courses:

- 
- 
- 

### OFFICE OF THE REGISTRAR

**Calumet Department Head**

**Calumet School Dean**

**Fort Wayne Department Head**

**Fort Wayne School Dean**

**Indianapolis Department Head**

**Indianapolis School Dean**

**North Central Department Head**

**North Central Chancellor**

**West Lafayette Department Head**

**West Lafayette College/School Dean**

**West Lafayette Registrar**

**Date**
Math 373
Financial Mathematics

Syllabus

Math 373 – Financial Mathematics (3 cr.)
Instructor: William Cross
Prerequisite: Math 261


Texts:

Content/Schedule: (with extra cushion built in for slight variances)

Week 1  Chapter 1 in Mathematics of Investment and Credit
Week 2  Chapter 2 in Mathematics of Investment and Credit
Week 3  Chapter 3 in Mathematics of Investment and Credit
Week 4  Review and Exam 1
Week 5  Chapter 4 in Mathematics of Investment and Credit
Week 6  Chapter 5 in Mathematics of Investment and Credit
Week 7  Chapter 6 in Mathematics of Investment and Credit & begin Chapter 7
Week 8  Finish Chapter 7 in Mathematics of Investment and Credit & Chapter 8
Week 9  Review and Exam 2
Week 10 Chapter 1 in Derivative Markets & begin Chapter 2
Week 11 Finish Chapter 2 in Derivative Markets & Chapter 3
Week 12 Chapters 4 and 5 in Derivative Markets
Week 13 Chapter 8 in Derivative Markets
Week 14 Review and Exam 3

Grading:
The final grade will be determined by a combination of homework and three exams, as distributed below:
   Homework – 10%
   Exam 1 – 30%
   Exam 2 – 30%
   Exam 3 – 30%
The following grading scale will be used:
90 – 100   A’s
80 – 89    B’s
70 – 79    C’s
60 – 69    D’s
0 – 59     F

**Academic Honesty:**
If you are not already familiar with the statement on academic honesty in the IU Student Code of Conduct (Part 3, Section A: Student Misconduct), please take the time to read this statement carefully: [http://www.life.iupui.edu/help/docs/Part_3all.html](http://www.life.iupui.edu/help/docs/Part_3all.html)

Cheating on assignments and tests or other academic works is a violation of university policy. Any behavior that is construed as cheating or academic dishonesty will not be tolerated in this course. This includes, but it is not limited to, plagiarism, cheating during exams, acquisition of tests or other academic materials, as well as aiding and abetting others in committing the violation.

**Student Code of Conduct:** The classroom protocol will be guided by the Student Code of Conduct which, among other things, asserts IUPUI’s commitment “to maintain[ing] a spirit of civility in a community in which diversity is welcomed. Every student, staff, and faculty member plays a significant role in promoting an environment that is conducive to academic excellence by fostering a climate of civility and mutual respect.” Consequently, in our meetings you are expected to treat one another with respect, to express your own ideas honestly, and to listen to others thoughtfully, attentively, and with a spirit of understanding. For the Student Code of Conduct, see: [http://life.iupui.edu/help/code.asp](http://life.iupui.edu/help/code.asp)

**Statement for Students with Disabilities:**
If you need any special accommodations due to a disability, please contact Adaptive Educational Services at (317) 274-3241. The office is located in CA 001E.