LSC Use Only
Number _____
Action _____
Date _____

UWUCC USE Only
Number **93-25**
Action App 12/14/93
Date Sen. App 3/1/94

CURRICULUM PROPOSAL COVER SHEET
University-Wide Undergraduate Committee
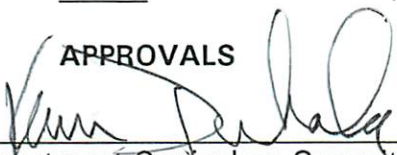
I. TITLE/AUTHOR OF PROPOSAL

Course/Program Title: <u>FI 355 Financial Analysis Using Lotus 1-2-3</u>
Suggested 20 character course title: <u>Fin Analysis w/Lotus</u>
Department: <u>Department of Finance and Legal Studies</u>
Contact Person: <u>Mr. James Welker</u>

II. If a course, it is being proposed for:
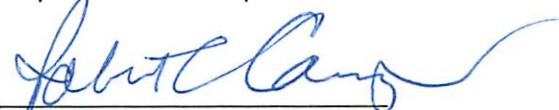
__X__ Course Approval/Revision Only
_____ Course Approval/Revision and Liberal Studies Approval
_____ Liberal Studies Approval Only (course previously approved by Senate.)

III. APPROVALS

_____
Department Curriculum Committee

_____
College Curriculum Committee

_____
Department Chairperson

_____
College Dean *

_____
Director of Liberal Studies
    (where applicable)

_____
Provost (where applicable)

* COLLEGE DEAN MUST CONSULT WITH THE PROVOST BEFORE APPROVING CURRICULUM CHANGES. APPROVAL BY COLLEGE DEAN INDICATES THE PROPOSED CHANGE IS CONSISTENT WITH LONG RANGE PLANNING DOCUMENTS, ALL REQUESTS FOR RESOURCES IN THE PROPOSAL CAN BE MET, AND THE PROPOSAL HAS THE SUPPORT OF THE UNIVERSITY ADMINISTRATION.

III. TIMETABLE

Date Submitted:	Semester to be	Date to be
to LSC _____	implemented:	published in Catalog
to UWUCC _____	_____	_____

II. Description of Curriculum Change

1. <u>CATALOG DESCRIPTION</u>

FI 355 Financial Analysis Using Lotus 1-2-3   3 credits
                                                     3 lecture hours
                                                     0 lab hours
                                                     (3c-0l-3sh)

Prerequisite: BE/CO/IM 101 and FI 310

The objective of this course is to develop the financial students' computer modeling and analysis skills. Students will be taught how to utilize current computing resources, electronic spreadsheet and other computing software, to analyze, model and solve a variety of financial problems.

COURSE SYLLABUS
FI 355 Financial Analysis Using Lotus 1-2-3

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The objective of this course is to develop the financial students' computer modeling and analysis skills. Students will be taught to utilize current computing resources and electronic spreadsheet software to analyze, model and solve a variety of financial problems.

II. COURSE OBJECTIVE:

1. The fundamentals of electronic spreadsheets taught in Microbased Computer Literacy will be reviewed.

2. Advanced menu and macro techniques of electronic spreadsheets will be taught.

3. Students will be taught to use the existing financial electronic spreadsheets.

4. The students will be taught to analyze and solve financial problems by creating their own macro-driven electronic spreadsheets.

III. COURSE OUTLINE:

PART I Spreadsheet macros and menus

3 hrs 1. Review of Lotus 1-2-3 basics
3 hrs 2. Fundamentals of macros and menus
3 hrs 3. Advanced macro techniques and programming
3 hrs 4. Menuized, macro-driven worksheets for financial analysis

Part II: Corporate Financial Management

2 hrs 5. Discounted cash flow analysis.
2 hrs 6. Financial statement analysis, simulation and forecasting
2 hrs 7. Capital budgeting and cash flow models with certainty
2 hrs 8. Capital budgeting with uncertain cash flows - sensitivity analysis
2 hrs 9. Capital budgeting, bond refunding and lease models
2 hrs 10. Capital structure analysis

Part III: Portfolio Management

2 hrs 11. Variance-covariance matrices and efficient portfolios.
2 hrs 12. Capital-market line and security-market line of the CAPM
2 hrs 13. Estimating betas with regression analysis.

PART IV: Derivative Security analysis

2 hrs 14. Simulating the normal and lognormal distributions
2 hrs 15. Option pricing
2 hrs 16. Duration and immunization

PART V: Final Project

6 hrs 17. The student is expected to design and implement his own "automated" spreadsheet application. The spreadsheet must incorporate the use of macros and menus to handle the input, the analysis, and the output of data. The spreadsheet should incorporate sufficient help instructions to allow use by an individual unfamiliar with lotus and should not "crash" when an error is made. The application's originality and sophistication will be considered.

IV. EVALUATION METHODS:

1.	Exam I	30%
2.	Exam II	30%
3.	Final Project	30%
4.	Lab, homework and/or class participation	10%

V. REQUIRED TEXTBOOKS, SUPPLEMENTAL BOOKS AND READINGS

Finance with Lotus 1-2-3: Text, Cases, and Models, Brigham, Aberwald and Ball, Dryden (1992)

Numerical Techniques in Finance, Simon Benninga, The MIT Press (1989).

VI. BIBLIOGRAPHY

Anderson, John J., Business Computing with Lotus 1-2-3, Prentice Hall, Englewood Cliffs, NJ (1986).

Brigham, Eugene F., Aberwald, Dana A., and Ball, Susan, Finance with Lotus 1-2-3: Text, Cases, and Models, The Dryden Press (1988).

Carlton, Thomas W., 1-2-3 Financial Macros, Que Corporation, Indianapolis (1985).

Carzo, Rocco Jr. and Verstraete, Anthony A., Business Decisions Using Lotus 1-2-3, Addison-Wesley Publishing Company (1990).

Ridington, Richard W. Jr., The Hidden Power of Lotus 1-2-3: Using Macros, Prentice Hall Publishing Company (1985).

COURSE ANALYSIS QUESTIONNAIRE

A: DETAILS OF THE COURSE

A1 How does this course fit into the programs of the department? For what students is the course designed?

Satisfies a three-credit elective for finance majors. May be taken by other majors at their department's discretion.

A2 Does this course require changes in content of existing courses? No

A3 Has this course ever been offered at IUP on trial basis? Yes, as a special topics course.

A4 Is this course to be a dual listed course? No

A5 Can the course be taken for variable credit? No

A6 Do other higher education institutions offer this course? (SSHE? Regional Colleges and universities? National Colleges and universities? If so, please list examples and provide copies of course descriptions where available.)

Yes, most universities offering Finance as a major offer at least one financial analysis course using computer software. Examples include The Pennsylvania State University and Kent State University.

A7 Is the content, or are the skills, of the proposed course recommended by a professional society, accrediting authority, law, or other external agency?

Recommended by: The Certified Financial Analysts, The Certified Financial Planners, The Certified Public Accountants, and the Certified Management Accountants.

Why can't the content and skills be incorporated into an existing course?

No course exists devoted to the content of the proposed course. No existing course has the flexibility to allow the degree of incorporation necessary to adequately cover the material of the proposed course.

B: INTERDISCIPLINARY IMPLICATIONS

B1 Will this course be taught by one instructor or will there be team teaching? One instructor.

B2 What is the relationship between the content of this course and the content of courses offered by other departments?

The proposed course would, by necessity, replace the special topics course, FI 481 Financial Analysis Using Lotus 1-2-3. Directly, the proposed course would assist in the instruction of Finance II, Investment Analysis, and the Seminar in Finance. Indirectly, the proposed course would assist in the instruction of all other finance courses. No conflicts have occurred.

B3 Will seats in this course be made available to students in continuing education?

No, but continuing education students would not be excluded.

C: IMPLEMENTATION

C1 Are faculty resources adequate? Yes; has been taught each semester as a special topics course.

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

All current resources are adequate.

Current resources:

    a) One faculty member

    b) Computer lab with 20 personal computers containing Lotus 1-2-3 software.

C3 Are any of the resources funded by a grant? No

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

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

One per semester

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

20 - 25 per class

C7 Does any professional society recommend enrollment limits or parameters for a course of this nature? If they do, please quote from the appropriate documents. No

D. MISCELLANEOUS

No additional information is necessary.