

PROPOSAL SUMMARY AND ROUTING FORM

Proposal Title: Minor revision to the operations research concentration in the BS Applied Mathematics degree


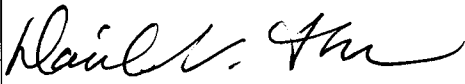
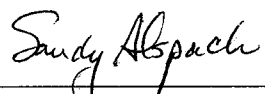
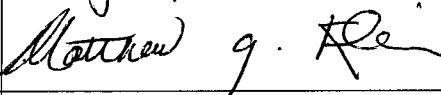
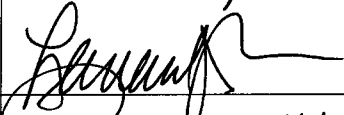
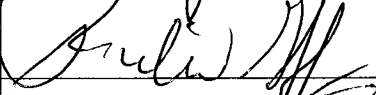

Initiating Unit or Individual: Mathematics Department

Contact Person's Name: Robert N. McCullough e-mail: RobertMcCullough@ferris.edu

phone: (231)-591-5876

Date or Semester of Proposal Implementation: Fall, 2007

- Group I - A – New degree/major or major, or redirection of a current offering
- Group I - B – New minors or concentrations
- Group II - A – Minor curriculum clean-up and course changes
- Group II - B – New Course
- Group III - Certificates
- Group IV – Off-Campus Programs

Group/Individual	Signature	Date	Vote/Action *
Department Faculty		1/26/07	21 Support <input type="radio"/> Support with Concerns <input type="radio"/> Not Support
Department Head		1/26/07	___ Support ___ Support with Concerns ___ Not Support
College Curriculum Committee		2/22/07	6 Support <input type="radio"/> Support with Concerns <input type="radio"/> Not Support
Dean		2-23-07	✓ Support ___ Support with Concerns ___ Not Support
University Curriculum Committee		3/15/07	✓ Support 8-0 ___ Support with Concerns ___ Not Support
Senate		3/15/07	✓ Support ___ Support with Concerns ___ Not Support
Academic Affairs			___ Support ___ Support with Concerns ___ Not Support

* Support with Concerns or Not Support must include a list of concerns.

To be completed by Academic Affairs

 President (Date Approved) Board of Trustees (Date Approved) President's Council (Date Approved)

REC'D MAR 22 2007

FORM A CONT.

1. Proposal Summary

Proposal: Change the requirements for the Operations Research concentration by replacing one of the CPSC/MATH 300/400 ELECTIVES with the required course CPSC 320 Computer Simulation.

Rationale: The CPSC 320 Computer Simulation course was recommended to be added to our operations research curriculum by Dr. Steven Butt, PhD. in operations research from WMU and a member of our Applied Mathematics Advisory Board. Currently the operations research concentration has the fewest required courses of any of our concentrations. Adding this course will bring it in line with the other concentrations. CPSC 320 is a course that already exists and has been offered several times in the past few years. Computer simulation is also a recommended topic for students entering the MS program in operations research at Bowling Green State University. This small change would not affect any other department.

2. Summary of All Course Action Required*

a. Newly Created Courses to FSU:

Prefix	Number	Title
--------	--------	-------

b. Courses to be Deleted From FSU Catalog:

Prefix	Number	Title
--------	--------	-------

c. Existing Course(s) to be Modified:

Prefix	Number	Title
--------	--------	-------

d. Addition of existing FSU courses to program

Prefix	Number	Title
CPSC	320	Computer Simulation

e. Removal of existing FSU courses from program

Prefix	Number	Title
---------------	---------------	--------------

*Contact Senate Secretary or UCC Chair if spaces for additional courses are needed.

GENERAL EDUCATION REQUIREMENTS

Courses which qualify in the Scientific Understanding (Z), Cultural Enrichment (C) and Social Awareness (S) categories are delineated in the General Education section of the FSU electronic catalog:

<http://www.ferris.edu/htmls/academics/gened/courses.html>

I. GENERAL EDUCATION REQUIREMENTS		
A. COMMUNICATION COMPETENCE 12 Sem Credits		
Course	Grade	Credit
ENGL 150		3
ENGL 250		3
ENGL 311 or 321 or 323 or 325		3
COMM 105 or 121		3
TOTAL		
B. SCIENTIFIC UNDERSTANDING 7 Sem Credits		
Only approved "Z" courses may count toward this category (one must be a lab course).		
Course	Grade	Credit
Lab		
TOTAL		
C. QUANTITATIVE SKILLS		
This requirement is satisfied through the program requirements area.		
D. CULTURAL ENRICHMENT 9 Sem Credits		
Only approved "C" courses may count toward this category. Requirements: 1) one course must be 200+ level, 2) maximum 5 credit hours of music and/or theater activities may apply		
Course	Grade	Credit
200+ level		
TOTAL		

E. SOCIAL AWARENESS 9 Sem Credits		
Only approved "S" courses may count toward this category. Requirements: 1) two different subject areas including at least one "foundation" course, 2) one 200+ level course		
Course	Grade	Credit
Foundation		
200+ level		
TOTAL		
F. GLOBAL CONSCIOUSNESS		
Each student must complete one course from the list of qualifying courses presented in the FSU catalog. This course may also count toward fulfilling the Cultural Enrichment or Social Awareness requirement.		
Course:		
G. RACE/ETHNICITY/GENDER		
Each student must complete one course from the list of qualifying courses presented in the FSU catalog. This course may also count toward fulfilling the Cultural Enrichment or Social Awareness requirement.		
Course:		

SAMPLE COURSE SEQUENCE: The following chart depicts one method to begin the course work requirements. In order to complete this program in four years, students must average 16 – 17 credit hours per semester. Students **MUST** consult their faculty advisor to develop a course sequence plan appropriate to their academic development and educational plans.

FIRST YEAR Fall Semester

MATH by placement	3-4
ENGL 150 English 1	3
Cultural Enrichment elective	3-4
Social Awareness elective	3
CPSC 200 or 244	3
	15-17

FIRST YEAR Winter Semester

Choose one: COMM 105 or COMM 121	3
MATH by placement	3-4
Scientific Understanding elective	3-5
Social Awareness	3
Cultural Enrich.	3
	15-17

NOTICE REGARDING WITHDRAWAL, RE-ADMISSION AND INTERRUPTION OF STUDIES

Students who return to the university after an interrupted enrollment (not including summer semester) must normally meet the requirements of the curriculum which are in effect at the time of their return, not the requirements which were in effect when they were originally admitted.

GENERAL EDUCATION REQUIREMENTS

Courses which qualify in the Scientific Understanding (Z), Cultural Enrichment (C) and Social Awareness (S) categories are delineated in the General Education section of the FSU electronic catalog:

<http://www.ferris.edu/htmls/academics/gened/courses.html>

I. GENERAL EDUCATION REQUIREMENTS		
A. COMMUNICATION COMPETENCE		12 Sem Credits
Course	Grade	Credit
ENGL 150		3
ENGL 250		3
ENGL 311 or 321 or 323 or 325		3
COMM 105 or 121		3
TOTAL		
B. SCIENTIFIC UNDERSTANDING		7 Sem Credits
Only approved "Z" courses may count toward this category (one must be a lab course).		
Course	Grade	Credit
Lab		
TOTAL		
C. QUANTITATIVE SKILLS		
This requirement is satisfied through the program requirements area.		
D. CULTURAL ENRICHMENT		9 Sem Credits
Only approved "C" courses may count toward this category. Requirements: 1) one course must be 200+ level, 2) maximum 5 credit hours of music and/or theater activities may apply		
Course	Grade	Credit
200+ level		
TOTAL		

E. SOCIAL AWARENESS		9 Sem Credits
Only approved "S" courses may count toward this category. Requirements: 1) two different subject areas including at least one "foundation" course, 2) one 200+ level course		
Course	Grade	Credit
Foundation		
200+ level		
TOTAL		
F. GLOBAL CONSCIOUSNESS		
Each student must complete one course from the list of qualifying courses presented in the FSU catalog. This course may also count toward fulfilling the Cultural Enrichment or Social Awareness requirement.		
Course:		
G. RACE/ETHNICITY/GENDER		
Each student must complete one course from the list of qualifying courses presented in the FSU catalog. This course may also count toward fulfilling the Cultural Enrichment or Social Awareness requirement.		
Course:		

SAMPLE COURSE SEQUENCE: The following chart depicts one method to begin the course work requirements. In order to complete this program in four years, students must average 16 – 17 credit hours per semester. Students **MUST** consult their faculty advisor to develop a course sequence plan appropriate to their academic development and educational plans.

FIRST YEAR Fall Semester

MATH by placement	3-4
ENGL 150 English I	3
Cultural Enrichment elective	3-4
Social Awareness elective	3
CPSC 200 or 244	3
	15-17

FIRST YEAR Winter Semester

Choose one: COMM 105 or COMM 121	3
MATH by placement	3-4
Scientific Understanding elective	3-5
Social Awareness	3
Cultural Enrich.	3
	15-17

NOTICE REGARDING WITHDRAWAL, RE-ADMISSION AND INTERRUPTION OF STUDIES

Students who return to the university after an interrupted enrollment (not including summer semester) must normally meet the requirements of the curriculum which are in effect at the time of their return, not the requirements which were in effect when they were originally admitted.

MODIFY COURSE

Course Date Entry Form

FORM F
Modify Course
rev. 2/14/05

I. ACTION TO BE TAKEN: MODIFY AN EXISTING COURSE

Notes:

1. Complete all parts of sections I and II; complete only those items in section III that represent changes.
2. If either prefix or number are being changed, use 'Delete Course' and 'New Course' forms rather than this form.

a. List the changes to be made: add to Operations Research Concentration in BS Applied Mathematics

b. Term Effective: Semester Fall Year 2007 See instructions.

II. CURRENT: Include information that is in the current course database.

a. Course Prefix CPSC b. Number 320 c. Enter Contact Hours per week in boxes or check Independent Study (X).
LECTure hr/week LAB hr/week INDEpendent Study
Practicum: hr/week Seminar: hr/week

d. Full Course Title: Computer Simulation

III. PROPOSED CHANGES: Complete only those boxes that represent proposed changes in the course. Leave all other spaces blank.

a. Course Prefix b. Number c. Enter Contact Hours per week in boxes or check Independent Study (X).
LECTure hr/week LAB hr/week INDEpendent Study
Practicum: hr/semester Seminar: hr/week

d. Full Course Title:

e. Abbreviated Course Title: . (Abbreviate only if necessary. Use Arabic numerals. Limit to 26 characters and spaces.)

f. Semester(s) Offered: (See instructions for listing.) g. Max. Section Enrollment:

Credit Hours: Check (x) type and enter maximum and minimum hours in boxes.

h. Type: Variable Fixed i. Maximum Credit Hours j. Minimum Credit Hours

k. Grade Method: Check (x) Normal Grading Credit/No Credit only (Pass/Fail)

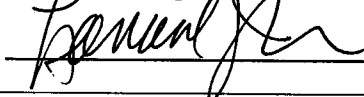
m. May Be Repeated for Added Credit: Check (x) Yes No

n. Levels: Check (x) Undergraduate Graduate Professional

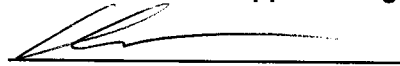
o. CATALOG DESCRIPTION – Limit to 75 words – PLEASE BE CONCISE.

p. Prerequisites: (if no prerequisites, write "None") Limited to 60 spaces. .

UCC Chair Signature/Date:

 3/15/07

Academic Affairs Approval Signature/Date:

 1/1

To be completed by Academic Affairs Office: - Standard & Measures Coding and General Education Code

Basic Skill (BS) General Education (GE) Occupational Education (OC) G.E. Codes

Office of the Registrar use ONLY

Date Received: _____ Date Completed: _____ Entered: SIS [125 ___ 1D4 ___ 12R ___ 131 ___]