

Revised 05/08/2009

PROPOSAL SUMMARY AND ROUTING FORM

Proposal Title: Mathematics Curriculum Clean-up

Initiating Unit or Individual: Mathematics

Contact Person's Name: Kirk Weller e-mail: wellerk@ferris.edu phone: x2594

Date or Term of Proposal Implementation: 201008

- Group I - A – New degree/major or major, redirection of a current offering, or elimination of a degree, major or minor**
- 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 *
Program or Academic Unit Faculty			<input type="checkbox"/> Support <input type="checkbox"/> Support with Concerns <input type="checkbox"/> Not Support
Department Faculty			<input type="checkbox"/> Support <input type="checkbox"/> Support with Concerns <input type="checkbox"/> Not Support
Department Head	<i>Kirk Weller see email</i>	<i>3/14/10</i>	<input checked="" type="checkbox"/> Support <input type="checkbox"/> Support with Concerns <input type="checkbox"/> Not Support
College Curriculum Committee			<input type="checkbox"/> Support <input type="checkbox"/> Support with Concerns <input type="checkbox"/> Not Support
Dean			<input type="checkbox"/> Support <input type="checkbox"/> Support with Concerns <input type="checkbox"/> Not Support
University Curriculum Committee			<input type="checkbox"/> Support <input type="checkbox"/> Support with Concerns <input type="checkbox"/> Not Support
Senate			<input type="checkbox"/> Support <input type="checkbox"/> Support with Concerns <input type="checkbox"/> Not Support
Academic Affairs	<i>Donald Flickinger</i>	<i>3/10/10</i>	<input checked="" type="checkbox"/> Support <input type="checkbox"/> Support with Concerns <input type="checkbox"/> Not Support

* Support with Concerns or Not Support must include a list of specific concerns. Votes must be shown for faculty groups. Administrators check appropriate action taken.

To be completed by Academic Affairs

President (Date Approved)

Board of Trustees (Date Approved)

President's Council (Date Approved)

1. Proposal Summary

(Summary is generally less than one page. Briefly: state what is proposed with a summary of rationale and highlights. Additional rationale may be attached.)

Revision of the Applied Mathematics Computer Science Concentration (AMCS) was approved during the 2008-2009 academic year. One of the changes in that revision, elimination of CPSC 244 from the curriculum, affects Mathematics (MATH). Under the original MATH program, students had a choose one option of CPSC 200 or CPSC 244. With the elimination of CPSC 244, the “choose one” option will become a single course requirement, namely CPSC 200. The purpose of this proposal is to document this change.

2. Summary of All Course Action Required*

a. Newly Created Courses to FSU:

Prefix	Number	Title
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b. Courses to be Deleted From FSU Catalog:

Prefix	Number	Title
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c. Existing Course(s) to be Modified:

Prefix	Number	Title
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d. Addition of existing FSU courses to program

Prefix	Number	Title
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e. Removal of existing FSU courses from program

Prefix	Number	Title
CPSC	244	Scientific Programming with Fortran

3. Summary of All Consultations

Form Sent (B or C)	Date Sent	Responding Dept.	Date Received & by Whom
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Not applicable

4. Will External Accreditation be Sought? (For new programs or certificates only)

_____ Yes _____X_____ No

If yes, name the organization involved with accreditation for this program.

5. Program Checksheets affected by this proposal.

Mathematics

MATHEMATICS (CURRENT) BACHELOR OF ARTS

FERRIS STATE UNIVERSITY

Major Advisor: Mr. Robert McCullough

Phone: (231) 591-5876

Campus Address: ASC 2042

E-mail: mccullor@ferris.edu

Admission requirements: First year student admission is open to high school graduates (or equivalent) who demonstrate appropriate academic preparedness, maturity and seriousness of purpose. High school courses and grade point average, ACT composite score, and ACT Mathematics and Reading sub scores will be considered in the admission and course placement process. Transfer students must have at least 12 credits at the time of application with a minimum 2.0 overall GPA including an English and mathematics course or they will be considered as first year students.

Graduation Requirements:

1. Minimum 2.0 CUMULATIVE grade point average in all courses.
2. No grade lower than a "C" in course work included in the minimum 30 credit "major"; 15 credits must be FSU credits; 15 credits must be 300/400 level.
3. Must complete an approved academic minor.
4. 120 Minimum semester credits including general education requirements
5. Residency requirement: 30 minimum FSU semester credits
6. Minimum of 40 credits numbered 300 or higher (excluding community college credits)

Courses required for students entering this major Fall Semester 2009

		COURSE TITLE – FSU PREREQUISITES SHOWN IN BRACKETS ()	FSU S.H.	GRADE
Major: Minimum 34-35 credits. No grade lower than "C" (2.0) allowed to apply toward this major				
CPSC	200 or	Object Oriented Programming (MATH126 or 130 and CPSC150 or 244)	4 or	
CPSC	244	Scientific Programming with Fortran (MATH 216 or 220)	3	
MATH	220	Analytical Geometry & Calculus 1 (MATH 130 min C-)	5	
MATH	230	Analytical Geometry & Calculus 2 (MATH 220)	5	
MATH	320	Analytical Geometry & Calculus 3 (MATH 230)	3	
MATH	322	Linear Algebra (MATH 220)	3	
MATH	420	Introduction to Abstract Algebra (MATH 230 and MATH 322 or 324 or 328)	3	
MATH	430	Advanced Calculus (MATH 320)	3	
Electives: Choose 9 credits at 300 or 400 level from the following: MATH 310, MATH 314, MATH 324, MATH 325, MATH 327, MATH 328, MATH 330, MATH 340, MATH 360, MATH 380, MATH 414, MATH 416, MATH 435, MATH 440				
			3	
			3	
			3	
Electives to the minimum 120 credits required for this degree.				
MATH	485	Math Research (optional)	1 – 6	
MATH	491	Math Internship (optional)	1 – 6	
Academic Minor: An academic minor of 18 – 24 credits is required, any approved minor is allowed (except teacher education minors). Students should consult their major advisor if uncertain as to an appropriate minor to select. For graduation, both the academic minor clearance form and this major audit form must be attached to the graduation application.				
Bachelor of Arts Core: 3 – 15 credits: 1) proficiency in a foreign language through the 201 level (third semester), this may be accomplished through any combination of approved assessment and course work; 2) COMM requirement. choose a second COMM course from the list of options required for general education (COMM 105, 121 or 221).				
**Please be aware that students cannot receive credit in both COMM 105 and COMM 200 AND				
**Please be aware that students cannot receive credit in both COMM 121 and COMM 201				

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
Choose one; COMM 105 or 200 COMM 121 or 201 COMM 221		3
TOTAL		
B. SCIENTIFIC UNDERSTANDING 7 Sem Credits		
Only approved "Z" courses may count toward this category. At least one lab course.		
Course	Grade	Credit
Lab		
TOTAL		
C. QUANTITATIVE SKILLS		
This requirement is satisfied in the program requirements area.		

E. CULTURAL ENRICHMENT 9 Sem Credits		
Only approved "C" courses may count toward this category, excluding foreign languages numbered 101, 102, 201. 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 course		3
TOTAL		
D. SOCIAL AWARENESS 9 Sem Credits		
Only approved "S" courses may count toward this category. Requirements: 1) two different subject areas including at least one "foundations" course, 2) One course at the 200+ level		
Course	Grade	Credit
Foundation		
200+ level		
TOTAL		
E. 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:		
F. 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 strategy to begin the program requirements. In order to complete this program in a four year plan, students must average 15 – 16 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

ENG 150 or COMM	3
MATH (by placement)	3 - 5
Foreign Language	4
CPSC or General Education Elective	3
General Education Elective	3
	16 - 17

Spring Semester

COMM or ENGL 150	3
MATH	3 - 5
Foreign Language	4
CPSC or General Education Elective	3
General Education Elective	3
	16 - 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.

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4. 120 Minimum semester credits including general education requirements
5. Residency requirement: 30 minimum FSU semester credits
6. Minimum of 40 credits numbered 300 or higher (excluding community college credits)

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General Education Elective	3
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MATH	3 - 5
Foreign Language	4
CPSC or General Education Elective	3
General Education Elective	3
	16 - 18

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Math BA: Form A, Old Check Sheet, New Check Sheet
Kirk Weller to: Donald Flickinger

03/10/2010 03:31 PM

Cc: Kirk Weller



FormA-MATH-3Mar10.doc



MATH-ChecksheetCurrent.doc



MATH-ChecksheetRevised-3Mar10.doc

Donald Flickinger, MM> Math BA: Form A, Old Check Sheet, New Check Sheet
Associate Provost
Ferris State University
1201 South State Street
CSS 310
Big Rapids, MI 49307
Phone: 231.591.2553