

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 150 and CPSC 244 from the curriculum, affects the Computer Science Minor. Under the original CPSC minor program, students could choose from CPSC 150 or CPSC 244. These two courses are being replaced with CPSC 130. 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
CPSC	130	Programming and Problem Solving

e. Removal of existing FSU courses from program

Prefix	Number	Title
CPSC	244	Scientific Programming with Fortran
CPSC	150	Programming in Basic

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 **No**

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

5. Program Checksheets affected by this proposal.

Applied Mathematics – Operations Research Concentration

COMPUTER SCIENCE MINOR

FERRIS STATE UNIVERSITY - COLLEGE OF ARTS AND SCIENCES

ADVISOR: Dr. James Nystrom

PHONE: (231) 591-5864

E-MAIL: nystroj@ferris.edu

Campus Address: ASC 2056

Why Choose the Computer Science Minor?

A minor in Computer Science will significantly enhance the employability of a graduate from any program at Ferris. Computer skills are among the most important skills an employer is looking for in employees today. It can serve to enhance the expertise of the student in their major field and also serve as an excellent preparation for entry-level positions in the computing field.

Through the course work of the Computer Science minor, students will be provided the opportunity to learn computer science applications such as programming language, computer architecture, microprocessor-controlled equipment and local area networks.

Admission Requirements

This Computer Science minor is open to any student admitted to Ferris State and pursuing a baccalaureate degree except those pursuing the Applied Mathematics Computer Science option. The minor is designed to complement any Ferris major program.

Graduation Requirements

An academic minor may only be awarded upon completion of a baccalaureate degree at Ferris State. This minor requires a minimum of 20 credits and a minimum grade average of 2.5 in these courses. Also, 50% of the credits for a minor must be taught by Ferris State University.

Required Courses:

CPSC200	Object Oriented Programming	4
CPSC300	Data Structures and Object Orientation Design	4
Choose one:		
CPSC150	Basic Programming	3
CPSC244	Scientific Programming with FORTRAN	3
Electives-Choose 3:		
CPSC320	Computer Simulations	3
CPSC326	Computer Graphics	3
CPSC328	Discrete Structures	3
CPSC 340	Hardware and Software Organization	4
CPSC 442	Programming Language Concepts	3
MATH 340	Numerical Analysis	3

COLLEGE OF ARTS AND SCIENCES - ACADEMIC MINOR CLEARANCE FORM

MINOR IN COMPUTER SCIENCE

NAME _____ STUDENT NUMBER _____

STUDENT'S COLLEGE: _____ B.S./B.A. PROGRAM: _____

Procedures:

- 1) The student and the advisor for this minor will review and complete the General Requirements and Required Courses sections of this form (Section A).
- 2) Upon completion of Section A, this form will be sent to the department office for approval. The original form will be filed in the appropriate office (either the advisor or the department) and copied for the student. Students in Bachelor of Arts degree programs must also provide a copy of this form to both the B.A. coordinator and their faculty advisor. All deviations from or substitutions for courses listed in this original plan must be approved by the Department Head on official Course Substitution Forms and must accompany this form.
- 3) Upon completion of this minor, the student will notify the advisor of the minor. The department and the advisor will verify that the student has completed the minor and will forward the original form to the College of Arts and Sciences Dean's Office for approval and from there it will be forwarded either to the Registrar's Office (Section B) or to the B.A. coordinator as appropriate.

SECTION A	General Requirements:		
	1) At least 50% of the credits of the minor must be numbered 300 or higher		
	2) At least 50% of the credits of the minor must be Ferris State University credits		
	3) This minor requires a minimum of <u>20</u> credits		
	4) This minor requires a minimum GPA of <u>2.5</u> in these courses.		
	5) A minor will not be entered in the academic record until the student has been certified for a bachelor's degree		
	Required Courses	Credit Hours	Grade
	CPSC 200	4	
	CPSC 300	4	
	CPSC 150 OR CPSC 244	3	
Directed Elective 1	3		
Directed Elective 2	3		
Directed Elective 3	3		
Signatures		Date	
Student			
Advisor			
Department			

SECTION B	Routing (FOLLOWING COMPLETION OF THE REQUIRED COURSES FOR THE MINOR)		Date
	Department		
	CAS Dean		
	Registrar		

DECLARATION SENT TO RECORDS _____ COMPLETION SENT TO RECORDS _____

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FERRIS STATE UNIVERSITY - COLLEGE OF ARTS AND SCIENCES

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Required Courses:

CPSC130	Programming and Problem Solving	4
CPSC200	Object Oriented Programming	4
CPSC300	Data Structures and Object Orientation Design	4
Electives-Choose 3:		
CPSC320	Computer Simulations	3
CPSC326	Computer Graphics	3
CPSC328	Discrete Structures	3
CPSC 340	Hardware and Software Organization	4
CPSC 442	Programming Language Concepts	3
MATH 340	Numerical Analysis	3

COLLEGE OF ARTS AND SCIENCES - ACADEMIC MINOR CLEARANCE FORM

MINOR IN COMPUTER SCIENCE

NAME _____ STUDENT NUMBER _____

STUDENT'S COLLEGE: _____ B.S./B.A. PROGRAM: _____

Procedures:

- 1) The student and the advisor for this minor will review and complete the General Requirements and Required Courses sections of this form (Section A).
- 2) Upon completion of Section A, this form will be sent to the department office for approval. The original form will be filed in the appropriate office (either the advisor or the department) and copied for the student. Students in Bachelor of Arts degree programs must also provide a copy of this form to both the B.A. coordinator and their faculty advisor. All deviations from or substitutions for courses listed in this original plan must be approved by the Department Head on official Course Substitution Forms and must accompany this form.
- 3) Upon completion of this minor, the student will notify the advisor of the minor. The department and the advisor will verify that the student has completed the minor and will forward the original form to the College of Arts and Sciences Dean's Office for approval and from there it will be forwarded either to the Registrar's Office (Section B) or to the B.A. coordinator as appropriate.

SECTION A	General Requirements:			
	1) At least 50% of the credits of the minor must be numbered 300 or higher			
	2) At least 50% of the credits of the minor must be Ferris State University credits			
	3) This minor requires a minimum of <u>20</u> credits			
	4) This minor requires a minimum GPA of <u>2.5</u> in these courses.			
	5) A minor will not be entered in the academic record until the student has been certified for a bachelor's degree			
	Required Courses	Credit Hours	Grade	Semester Completed
	CPSC 130	4		
	CPSC 200	4		
	CPSC 300	4		
Directed Elective 1	3 or 4			
Directed Elective 2	3 or 4			
Directed Elective 3	3 or 4			
Signatures			Date	
Student				
Advisor				
Department				

SECTION B	Routing (FOLLOWING COMPLETION OF THE REQUIRED COURSES FOR THE MINOR)		Date
	Department		
	CAS Dean		
	Registrar		

DECLARATION SENT TO RECORDS _____ COMPLETION SENT TO RECORDS _____



Computer Science Minor: Form A, Check Sheet Current, Check Sheet Revised
Kirk Weller to: Donald Flickinger
Cc: Kirk Weller

03/10/2010 03:32 PM



FormA-ComputerScienceMinor-9Mar10.doc



ComputerScienceMinor-ChecksheetCurrent.doc



ComputerScienceMinor-ChecksheetRevised-9Mar10.doc

Donald Flickinger, MM> Computer Science Minor: Form A, Check Sheet Current, Check Sheet Revised
Associate Provost
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CSS 310
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