To: Dean Van Galen, Chancellor  
116 North Hall  
University of Wisconsin-River Falls  

From: Wes Chapin, Chair  
Faculty Senate  
University of Wisconsin-River Falls  

May 9, 2013  

RE: UWRF Faculty Senate Motion 2012-13/135  

At the May 8, 2013 meeting of the University of Wisconsin-River Falls Faculty Senate, this motion was passed. The motion is forwarded to you for your action.  

Motion from the Academic Program and Policy Committee (James Zimmerman, Chair) to approve changes to the Computer Science Program.

Approved  

Disapproved  

Dean Van Galen, Chancellor  

Date  

5/21/13
TRANSMITTAL for UNDERGRADUATE PROGRAMS: Changes or Proposals

INFORMATION

1. Program title: Computer Science (Is)
2. Department(s): Computer Science And Information Systems (Csis)
3. College(s): Cbe
4. Proposal prepared by: Arpan Jani Date: 12/3/2012

5. Check all that apply:
   - [ ] New program
   - [ ] Change in course name
   - [ ] Change in Major
   - [X] Change in course content
   - [X] Existing program
   - [X] Change in number of credits
   - [X] Change in Minor
   - [X] Change in Emphasis/Option

6. Other Programs/Departments Consulted (Requires letters of support from all Departments or Programs substantially affected):
   1. Math
   2. Geography

7. Date of Implementation: Fall Semester 2013 Year

8. Have all courses in this program been approved? Yes [X] No [ ] If “No,” which ones?

9. Attach Request Narrative. (Include description of program before and after proposed changes).

UNIT APPROVALS: Requires signatures of all Departments Chairs and Deans whose programs will be affected by the changes or proposal. Signature lines for the affected Departments and Colleges (Noted in 6 above), are on the back of this form. These signatures should be obtained prior to review by all other shared governance levels.

<table>
<thead>
<tr>
<th>Signature</th>
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<tbody>
<tr>
<td>Department Chair</td>
<td>2/8/13</td>
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<tr>
<td>College Curriculum Cmmt. Chair</td>
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<td>Dean of College</td>
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<td>Academic Policy &amp; Programs Cmmt. Chair</td>
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<td>Faculty Senate Chair</td>
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NOTE: The master copy of this transmittal and accompanying documents must be filed in the Provost’s office upon final approval. The Provost’s office will notify all appropriate administrative offices [Registrar, Dean(s), and Department Chair(s)] of approvals and necessary actions to implement changes.

Rev. 11/08
Proposal for Revision of the Computer Science and Information Systems Curriculum – The Information Systems (IS) Program Option
Arpan Jani, Ahmad Abuhejleh, Charlie Hurt

Rationale

We redesigned the Information Systems curriculum based on the IS 2009/2010 curriculum guidelines of the joint task force of Association of Computing Machinery (ACM) and Association of Information Systems (AIS). Since graduates of the CSIS major - IS option are likely to find employment in the IT departments of various organizations such as for-profit companies, non-profit organizations, universities or government organizations, students need to have a sound understanding of the organizational environment in which the Information Systems/Information Technology function is embedded and how technology can be used to support the needs of the organization.

The current changes that we are proposing now are related to continuing to implement the curricular guidelines as well as adapting to the needs of the program. The changes proposed are as follows:

1. The newly redesigned CSIS 484 Senior Capstone course will be a semi-required course. Students will have to either take the internship course CSIS 379 or take CSIS 484. In this way students will have an opportunity to work on a substantial project related to their area of interest.

2. Refined the list of directed electives for the CSIS major - IS option as well as for the IS minor. Students majoring in CSIS - IS option have to take two directed electives from a list of CSIS courses and an area where they can learn skills that would relate directly to their professional career - skills in statistical data analysis, optimization techniques, decision making or leadership skills. We have expanded the current list of directed electives by including MNGT 340 Ethical Leadership. For students with IS minor we have similarly expanded the list of the directed electives to match with the directed electives for the IS major. CSIS 325 has been removed from the directed electives as this course will no longer be offered and the contents have been incorporated into a higher level course.

3. Students with CSIS major -IS option are required to take a course that focuses on one of the functional areas within the business such as human resources, accounting or operations management. In this way students become familiar with the information processing needs of specific functions within the business. We have included MKTG 310 as one of the possible functional area courses that students could take.

Current CSIS Major – IS Program Option Requirements
Information Systems Option: 53-54 Total Credits

The analysis and design of information systems with an emphasis on managing, storing, transmitting and providing ready access to information is the key to the IS option. Graduates will develop skills relevant to the analysis, design and implementation of sophisticated information systems.

**Required Courses: 28 cr. hrs.**

CSIS 161 Programming I 3 cr.
CSIS 162 Programming II 3 cr.
CSIS 215 Information Systems for Business Management 3 cr.
CSIS 235 Object-Oriented Programming 3 cr.
CSIS 247 Introduction to Computer Networks 3 cr.
CSIS 333 Database Management Systems 3 cr.
CSIS 423 Introduction to System Analysis I 3 cr.
CSIS 433 Design Analysis MIS 3 cr.
CSIS 440 Information Systems Project Management 3 cr.
CSIS 484 Seminar (writing intensive) 1 cr.

**Directed Electives: 6 cr. hrs.**

Two courses to be selected from the following:

CSIS 225 Web Development I 3 cr.
CSIS 325 Web Development II 3 cr.
ECON 326 Statistical Methods for Economics and Business 3 cr.
MNGT 318 Operations Research 3 cr.
MNGT 350 Decision Making 3 cr.

**Required supporting courses: 19-20 cr. hrs.**

- **Business Domain: 12 cr. hrs.**

  COMS 116 Business and Professional Communication 3 cr.
or ENGL 266 Business Writing 3 cr.
MNGT 300 Management and Organizational Behavior 3 cr.
MNGT 365 Business Process Management 3 cr.

One course from:

MNGT 320 Human Resource Management 3 cr.
or ACCT 231 Principles of Accounting I 3 cr.
or MNGT 361 Operations Management 3 cr.
• **Math: 6-7 cr. hrs.**
  
  MATH 156 Calculus for Business and Social Sciences 3 cr.
  or MATH 166 Calculus I 4 cr.
  ECON 226 Introduction to Statistics 3 cr.
  or MATH 226 Fundamentals of Statistics 3 cr.

• **CBE required courses for all majors: 1 cr. hr.**
  
  CBE 100 Orientation to CBE 0.5 cr.
  CBE 300 Professional Development 0.5 cr.
Proposed CSIS Major – IS Program Option Requirements

Information Systems Option: **55-56 Total Credits**

The analysis and design of information systems with an emphasis on managing, storing, transmitting and providing ready access to information is the key to the IS option. Graduates will develop skills relevant to the analysis, design and implementation of sophisticated information systems.

**Required Courses: 30 cr. hrs.**

- CSIS 161 Programming I 3 cr.
- CSIS 162 Programming II 3 cr.
- CSIS 215 Information Systems for Business Management 3 cr.
- CSIS 235 Object-Oriented Programming 3 cr.
- CSIS 247 Introduction to Computer Networks 3 cr.
- CSIS 333 Database Management Systems 3 cr.
- CSIS 423 Introduction to System Analysis I 3 cr.
- CSIS 433 Design Analysis MIS 3 cr.
- CSIS 440 Information Systems Project Management 3 cr.
- CSIS 484 Senior Capstone Seminar, or CSIS 379 Internship 3 Cr.

**Directed Electives: 6 cr. hrs.**

Two courses to be selected from the following:

- CSIS 225 Web Development I 3 cr.
- ECON 326 Statistical Methods for Economics and Business 3 cr.
- MNGT 318 Operations Research 3 cr.
- MNGT 350 Decision Making 3 cr.
- MNGT 340 Ethical Leadership 3 cr.
- GIS 250 Introduction to Geographic Information Science (GISci) 3 cr.
- Other 300-400 CSIS level courses in consultation with the advisor

**Required supporting courses: 19-20 cr. hrs.**

- **Business Domain: 12 cr. hrs.**
  - COMS 116 Business and Professional Communication 3 cr.
  - or ENGL 266 Business Writing 3 cr.
  - MNGT 300 Management and Organizational Behavior 3 cr.
  - MNGT 365 Business Process Management 3 cr.
One course from:
MNGT 320 Human Resource Management 3 cr.
or ACCT 231 Principles of Accounting I 3 cr.
or MNGT 361 Operations Management 3 cr.
or MKTG 310 Principles of Marketing 3 cr.

- **Math: 6-7 cr. hrs.**
  MATH 156 Calculus for Business and Social Sciences 3 cr.
or MATH 166 Calculus I 4 cr.
ECON 226 Introduction to Statistics 3 cr.
or MATH 226 Fundamentals of Statistics 3 cr.

- **CBE required courses for all majors: 1 cr. hr.**
  CBE 100 Orientation to CBE 0.5 cr.
  CBE 300 Professional Development 0.5 cr.
Current CSIS Minor – IS Program Option Requirements

Information Systems Option: 24 Total Credits

**Required courses 18 cr. hrs.**
- CSIS 161 Programming I 3 cr.
- CSIS 162 Programming II 3 cr.
- CSIS 215 Information Systems for Business Management 3 cr.
- CSIS 247 Introduction to Computer Networks 3 cr.
- CSIS 333 Database Management Systems 3 cr.
- CSIS 423 Introduction to Systems Analysis 3 cr.

**Directed electives 6 cr. hrs.**
Two courses to be selected from:
- CSIS 225 Web Development I 3 cr.
- CSIS 235 Object-Oriented Programming 3 cr.
- CSIS 325 Web Development II 3 cr.
- CSIS 433 Design Analysis MIS 3 cr.
- CSIS 440 Information Systems Project Management 3 cr.

**Required supporting math courses: 6-7 cr. hrs.**
- MATH 156 Calculus for Business and Social Sciences 3 cr.
  or MATH 166 Calculus I 4 cr.
- ECON 226 Introduction to Statistics 3 cr.
  or MATH 226 Fundamentals of Statistics 3 cr.
Proposed CSIS Minor – IS Program Option Requirements

Information Systems Option: 24 Total Credits

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- Other 300-400 level CSIS courses in consultation with the advisor

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- MNGT 318 Operations Research 3 cr.
- MNGT 365 Business Process Management 3 cr.
- MNGT 350 Decision Making 3 cr.
- MNGT 340 Ethical Leadership 3 cr.

**Required supporting math courses: 6-7 cr. hrs.**
- MATH 156 Calculus for Business and Social Sciences 3 cr.
or MATH 166 Calculus I 4 cr.
- ECON 226 Introduction to Statistics 3 cr.
or MATH 226 Fundamentals of Statistics 3 cr.
Dear Alex,

You should be receiving a package with Computer Science and Information Systems program changes that were approved by the CBE curriculum committee last Friday. The following are a couple of emails from the Math and Geography chairs in support of these changes.

Please let me know if you need any other supporting documents or have any questions about the proposed changes. I like to attend the meeting in case there are questions from the committee. Please let me know when we are on the agenda.

Regards,

Hossein Najafi, PhD
Computer Science and Information Systems Department, Chair
University of Wisconsin, River Falls
410 S. 3rd St.
River Falls, WI 54022
715-425-3335

Geography Support email:

Hossein,

On behalf of the Geography and Mapping Sciences Department, we have discussed your proposed changes for the CSIS CS and IS majors. We support and recommend the inclusion of GEOG 250 – Introduction to GIScience in these majors. We look forward to working with your students.

Sincerely,

Charlie

Charles P. Rader, Ph.D.
Professor
Department of Geography and Mapping Sciences
University of Wisconsin – River Falls
410 S. 3rd Street
River Falls, WI 54022
715-425-3264 (Office)
715-425-0643 (Fax)
charles.p.rader@uwrf.edu

Math support email:
TRANSMITTAL for UNDERGRADUATE PROGRAMS: Changes or Proposals

INFORMATION

1. Program title:  Computer Science (Cs)
2. Department(s):  Computer Science And Information Systems (Csis)
3. College(s):  Cbe
4. Proposal prepared by: Hossein Najafi Date: 12/3/2012

5. Check all that apply:

☐ New program
☐ Change in course name
☒ Change in Major
☐ Change in course content
☒ Existing program
☒ Change in number of credits
☒ Change in Minor
☒ Change in Emphasis/Option

6. Other Programs/Departments Consulted (Requires letters of support from all Departments or Programs substantially affected):

1. Math
2. Geography

7. Date of Implementation: Fall Semester 2013 Year

8. Have all courses in this program been approved? Yes ☒ No ☐
If “No,” which ones?

9. Attach Request Narrative. (Include description of program before and after proposed changes).

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Signature Date

Department Chair _______________________________ 2/18/13
College Curriculum Cmtt. Chair _______________________________ 2/18/13
Dean of College _______________________________ 2/11/13
University Curriculum Cmtt. Chair _______________________________ 3/12/13
Academic Policy & Programs Cmtt. Chair _______________________________ 4/12/13
Faculty Senate Chair _______________________________ 5/8/13
Provost / Vice Chancellor _______________________________ 5/8/13

Chancellor _______________________________

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Rev. 11/08
TRANSMITTAL for UNDERGRADUATE PROGRAMS: Changes or Proposals

DEPARTMENT & COLLEGE APPROVAL SIGNATURES

Department Chair ____________________________  
Signature  
Date 12/5/2012

College Curriculum Cmtt. Chair ____________________________

Dean of College ____________________________

Department Chair ____________________________

College Curriculum Cmtt. Chair ____________________________

Dean of College ____________________________

Department Chair ____________________________

College Curriculum Cmtt. Chair ____________________________

Dean of College ____________________________

Rev. 11/08
Proposal for Revision of the Computer Science and Information Systems Curriculum – The Computer Science (CS) Program Option
Hossein Najafi, Anthony Varghese

Rationale

Benchmark: The Association for Computing Machinery (ACM) is the principal organization of computer scientists and members of computing-related fields. Once per decade, the ACM releases a report on undergraduate computing curriculum with recommendations for programs that grant degrees in computer science. Due to the fast changing nature of the discipline, ACM also releases an Interim Review Recommendation approximately once every five years.

The committees generating such reports are composed of computer science educators from across the discipline at research universities, liberal arts colleges, and other types of schools. The UWRF Computer Science and Information Systems (CSIS) Department takes the ACM recommendations seriously and attempts to keep its curriculum in line with the most recent guidelines. The last time the CSIS department revised its CS program was in 2008, based on ACM 2008 guidelines (ACM 2008 guidelines). The revisions presented here are aimed to align the CS program with the ACM 2013 Review (ACM 2013 guidelines).

The following areas were identified by the department for revision to better align the program with the new ACM 2013 guidelines:

Project Experience: It is recommended that graduates should be involved in at least one substantial project.

Program flexibility: Given the diverse nature of the discipline, program flexibility both at the required core and electives is recommended.

Curricular Revision Recommendations based on ACM 2013 Guidelines

Project Experience: To address the recommendation on project experience, the department is proposing the following changes:

• Convert CSIS 484 into a 3 credits Senior Capstone Course

• Make Internship semi-required. Students will be required to either complete an internship or take the CSIS 484 capstone course.

Program flexibility: To address the recommendation on project flexibility, the department is proposing the following changes:

• Make CSIS 425 an elective course, instead of required.

• Make Internship semi-required. Students will be required to either complete an internship or take the CSIS 484 capstone course. This offers flexibility, since many students used the internship as one of their electives, leaving only 3 credits of true electives.

• Change the directed electives requirements to state “To be selected from 200-400 CSIS-CS option courses (excludes CSIS 215). In consultation with their advisor, students may take up to 3 credits from CSIS 423 or CSIS 440, Math 346, Math 347 or GIS 250.”

• Change the math requirement from “Math166, Math 236” to “Math156 or Math 166, Math 236”.

1
Current CSIS Major – CS Program Option Requirements
Total Credits: 55

A. Required Courses: 40 Cr. hrs.
   a. CSIS 161 Programming I 3 Cr.
   b. CSIS 162 Programming II 3 Cr.
   c. CSIS 225 Web Development I 3Cr.
   d. CSIS 235 Object Oriented Programming 3 Cr.
   e. CSIS 237 Data Structure and Algorithm 3 Cr.
   f. CSIS 247 Introduction to Computer Networks 3 Cr.
   g. CSIS 248 Operating Systems Programming 3 Cr.
   h. CSIS 333 Database Management Systems 3 Cr.
   i. CSIS 343 Software Engineering & Capstone Project 3 Cr.
   j. CSIS 355 Computer Organization and Assembly Language 3 Cr.
   k. CSIS 425 Multi-Tier Web-Enabled Software Systems 3Cr
   l. CSIS 429 Operating Systems and System Programming 3 Cr.
   m. CSIS 435 Computer and Information Security 3 Cr.
   n. CSIS 484 Seminar (writing intensive) 1 Cr.

A. Directed Electives: 6 Cr. hrs.
   a. To be selected from 200-400 CSIS courses in consultation with adviser.

B. Required supporting courses: 9 Cr. hrs.
   a. Math 166, Math 236 8 Cr total
   b. CBE 100, CBE 300 1Cr total
Proposed CSIS Major – CS Program Option Requirements

Total Credits: 56-57

A. Required Courses: 39 Cr. hrs.
   
a. CSIS 161 Programming I 3 Cr.
   
b. CSIS 162 Programming II 3 Cr.
   
c. CSIS 225 Web Development I 3 Cr.
   
d. CSIS 235 Object Oriented Programming 3 Cr.
   
e. CSIS 237 Data Structure and Algorithm 3 Cr.
   
f. CSIS 247 Introduction to Computer Networks 3 Cr.
   
g. CSIS 248 Operating Systems Programming 3 Cr.
   
h. CSIS 333 Database Management Systems 3 Cr.
   
i. CSIS 343 Software Engineering & Capstone Project 3 Cr.
   
j. CSIS 355 Computer Organization and Assembly Language 3 Cr.
   
k. CSIS 429 Operating Systems and System Programming 3 Cr.
   
l. CSIS 435 Computer and Information Security 3 Cr.
   
m. CSIS 484 Capstone Seminar, or CSIS 379 Internship in Computer Science 3 Cr.

C. Directed Electives: 9 Cr. hrs.
   
a. To be selected from 200-400 CSIS-CS option courses (excludes CSIS 215). In consultation with their advisor, students may take up to 3 credits from CSIS 423 or CSIS 440, Math 346, Math 347 or GIS 250.

D. Required supporting courses: 8-9 Cr. hrs.
   
a. Math 156 or Math 166, Math 236 7-8 Cr total
   
b. CBE 100, CBE 300 1 Cr. total
Current CSIS Minor – CS Program Option Requirements

Total Credits: 32

A. Required Courses: 18 Cr. hrs.
   a. CSIS 161 Programming I 3 Cr.
   b. CSIS 162 Programming II 3 Cr.
   c. CSIS 235 Object Oriented Programming 3 Cr.
   d. CSIS 247 Introduction to Computer Networks 3 Cr.
   e. CSIS 333 Database Management Systems 3 Cr.
   f. CSIS 355 Computer Organization and Assembly Language 3 Cr.

B. Directed Electives: 6 Cr. hrs.
   a. To be selected from 200-400 CSIS courses in consultation with adviser.

C. Required supporting courses: 8 Cr. hrs.
   a. Math 166, Math 236
Proposed CSIS Minor – CS Program Option Requirements
Total Credits: 31-32

A. Required Courses: 18 Cr. hrs.
   a. CSIS 161 Programming I 3 Cr.
   b. CSIS 162 Programming II 3 Cr.
   c. CSIS 225 Web Development I 3 Cr.
   d. CSIS 235 Object Oriented Programming 3 Cr.
   e. CSIS 247 Introduction to Computer Networks 3 Cr.
   f. CSIS 333 Database Management Systems 3 Cr.

E. Directed Electives: 6 Cr. hrs.
   a. To be selected from 200-400 CSIS courses in consultation with adviser (excludes CSIS 215). In consultation with their advisor, students may take up to 3 credits from CSIS 423 or CSIS 440, Math 346, Math 347 or GIS 250.

F. Required supporting courses: 7-8 Cr. hrs.
   a. Math 156 or Math 166, Math 236 8 Cr total
Dear Alex,

You should be receiving a package with Computer Science and Information Systems program changes that were approved by the CBE curriculum committee last Friday. The following are a couple of emails from the Math and Geography chairs in support of these changes.

Please let me know if you need any other supporting documents or have any questions about the proposed changes. I like to attend the meeting in case there are questions from the committee. Please let me know when we are on the agenda.

Regards,

Hossein Najafi, PhD
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Sincerely,

Charlie

Charles P. Rader, Ph.D.
Professor
Department of Geography and Mapping Sciences
University of Wisconsin – River Falls
410 S. 3rd Street
River Falls, WI 54022

715-425-3264 (office)
715-425-0643 (Fax)
charles.p.rader@uwrf.edu

Math support email:
Hi Hossein,

From talking things over with some of my staff, I would say that the Math Department is willing to support your proposal. I will say, however, that the department does have some concerns. In particular, a number of your CS majors are also math minors, which is a logical combination. As such, then, these CS majors/ math minors have to take MATH 167 to fulfill a requirement for the math minor. If a student starts out in CS by taking MATH 156 and then decides to become a math minor, then he or she ABSOLUTELY MUST take MATH 166 before taking MATH 167. In all of the collective institutional memory of all the staff on our department, no one can recall of even a single student successfully completing MATH 167 coming directly out of MATH 156 without first taking MATH 166.

As such, then, you will need to advise your students carefully if they have any designs on becoming math minors. (Hopefully, the ones that take MATH 156 to fulfill your major requirement will, by self-selection, also be very unlikely to become math minors.)

Respectfully submitted,

Bob Coffman, Chair
Department of Mathematics
University of Wisconsin - River Falls
(715) 425-3326
Hi Jim,

Per my promise, I’m writing you a message to include some comments made by Math regarding the current program change requested by CSIS.

The CSIS Department currently requests:
Change the math requirement from “Math 166, Math 236” to “Math 156 or Math 166, Math 236” for CS majors (bottom of page 1, on the narrative CSIS Major -- CS-option program changes).

Here’s why Math has concerns: If approved as requested, this would allow a CS major to graduate with merely Math 156 & Math 236. Key issue here: Math 156 is a 3-credit, ‘high school level’ Calculus class. The other, Math 166, is a 4-credit, significantly more rigorous, ‘college level’ Calculus class.

1) By not being required to take Math 166, potentially many of the approx. 150 CS majors will never be exposed to a rigorous Calculus class. Such a class (and more) is needed in many engineering fields close to or part of Computer Science (computer engineering, computer graphics, robotics, etc.). Also, this could weaken our CS majors’ credentials in the eyes of a grad school’s admission person.

2) UWRF would become the first institution among the 13 UW-System (4 year degree) schools to lower their math requirements for CS majors below the standard ‘Calc I & Discrete Mathematics’ combo. Most schools actually require their CS majors to take significantly more math courses.

At our UCC meeting of last Friday I conveyed these (and other) concerns to Hossein Najafi, the CSIS Department Chair, and I recommended that he addresses them in front of APP.
Someone from Math can put together a more elaborate document with other potential problems related to the requested change. But there may be no use for one if, (per Hossein), the CSIS is thinking of dropping this request from their program change.

Please let me know if you have any questions.

Best,
Alex