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1.8 **Signatures**
BSU Curriculum Forms

Form 1

Curriculum Modification Summary

College: Arts and Sciences
Department: Mathematics and Computer Science
Proposer: Marty J Wolf
Proposer’s position: Professor of Computer Science

Describe the modification(s) you propose, and how it (/they) will work to students' advantage. (This description and explanation will be included in Curriculum Report packets forwarded to the Faculty Senate.):

This proposal is to correct an omission in a previous proposal. The course CS 1108 was dropped from Curriculum in proposal 21.MATH-CS_16-17 and was a prerequisite for:

CS 2270 Introduction to Web Programming (3 credits)
CS 2321 Computer Science (4 credits)
MATH 2210 Discrete Mathematics (4 credits)

A course modification should have been done at that time to remove CS 1108 as a prerequisite from each of the three courses above. This proposal will ensure that CS 1108 is removed as a prerequisite from these courses.

Modifications proposed (specify number of each):
3__Course Modification(s) (form 2)
___New Course(s) (form 3)
___Course Drop(s) (form 4)
___Program Modification(s) (form 5)
___New Program(s) (form 6)
___Program Drop(s) (form 7)

The modifications affect (check):
___Liberal Education
X__Undergraduate Curriculum
___Graduate Curriculum
___Teacher Licensure Program(s)
BSU Curriculum Forms

Form 2
Updated 9.19.15

Course Modification Form

Current Course Number(s):
  Undergraduate: CS 2270
  Graduate:
Proposed Course Number(s), if different:
  Undergraduate:
  Graduate:

Current Course Title: Introduction to Web Programming
Proposed Course Title, if different:

Current Course Description: This course expands on basic knowledge of markup languages and web programming languages. Students learn how to use current web markup languages, aspects of various transfer protocols, and client-side scripting languages. All of these topics support the development of both web pages and web sites. Prerequisite: CS 1309 or (CS 1107 and CS 1108).

Proposed Course Description, if different:

Current Credits: 3
Proposed Credits, if different:

Current Prerequisite(s):
  Undergraduate: CS 1309 or (CS 1107 and CS 1108).
  Graduate:
Proposed Prerequisite(s), if different:
  Undergraduate: CS 1309
  Graduate:

1) Reason(s) for change(s): CS 1108 was dropped from curriculum due to consistently low enrollment and the educational needs of these students can be met, albeit with different content and pedagogy, with CS 1309 Problem Solving and Computation where there is a sufficient number of seats.

2) May this modified course replace the current course for students remaining in the old curriculum? Yes X No ____ If not, please drop the current course and submit a new course form for the modification.

3) Do these modifications change any of the following? For all Yes answers, please provide updated information on the next page.
   Student Learning Outcomes Yes ____ No _X__
Major Content Areas  Yes _____  No __X__
Projected Maximum Class Size (Cap) Yes _____  No __X__

4) Current Course fee(s) per student: $
   for: 
   Proposed Course fee(s) per student, if different: $
   for:

5) Service Areas:
This course is a requirement or an elective in the programs/areas listed below. To locate where
this course appears please search the online catalog, as follows:
   a) go to http://www.bemidjistate.edu/academics/catalog/ and choose the most recent
catalog(s),
   b) click on “Areas of Study, and Course Descriptions,”
   c) click on “PDF of Entire Catalog” in upper right,
   d) press Ctrl F, and enter the prefix and number of the course(s) from this form.

   Non-licensure programs:

   Teacher Licensure programs:

   Liberal Education:

The above “service area” programs/departments were notified of this modification on ________
(date) by ____________________ (mail, email, or phone).

Please check one of the items below:

______  No comments were received from other programs or departments within one week of
the notification.

______  Comments were received within one week of the notification, and are attached.
BSU Curriculum Forms

Form 2
Updated 9.19.15

Course Modification Form

Current Course Number(s):
  Undergraduate: CS 2321
  Graduate:

Proposed Course Number(s), if different:
  Undergraduate:
  Graduate:

Current Course Title: Computer Science I
Proposed Course Title, if different:

Current Course Description: Introduction to the basic principles of software development using a modern high-level language, including using selection, looping, function calls, and recursion, along with simple data structures such as arrays and objects, to solve problems. Includes an introduction to software engineering techniques such as interactive debugging, software testing, and methods of software validation. Includes a two-hour lab. Prerequisite: CS 1107 and CS 1108, or CS 1309; MATH 1170 or MATH 1470 or higher.

Proposed Course Description, if different:

Current Credits: 4
Proposed Credits, if different:

Current Prerequisite(s):
  Undergraduate: CS 1107 and CS 1108, or CS 1309; MATH 1170 or MATH 1470 or higher.
  Graduate:

Proposed Prerequisite(s), if different:
  Undergraduate: CS 1309; MATH 1170 or MATH 1470 or higher.
  Graduate:

1) Reason(s) for change(s): CS 1108 was dropped from curriculum due to consistently low enrollment and the educational needs of these students can be met, albeit with different content and pedagogy, with CS 1309 Problem Solving and Computation where there is a sufficient number of seats.
2) May this modified course replace the current course for students remaining in the old curriculum? Yes _X___ No _____ If not, please drop the current course and submit a new course form for the modification.

3) Do these modifications change any of the following? **For all Yes answers, please provide updated information on the next page.**

- Student Learning Outcomes Yes _____ No _X___
- Major Content Areas Yes _____ No _X___
- Projected Maximum Class Size (Cap) Yes _____ No _X___

4) Current Course fee(s) per student: $

   for:

   Proposed Course fee(s) per student, if different: $

   for:

5) Service Areas:

   This course is a requirement or an elective in the programs/areas listed below. To locate where this course appears please search the online catalog, as follows:

   a) go to [http://www.bemidjistate.edu/academics/catalog/](http://www.bemidjistate.edu/academics/catalog/) and choose the most recent catalog(s),
   b) click on “Areas of Study, and Course Descriptions,”
   c) click on “PDF of Entire Catalog” in upper right,
   d) press Ctrl F, and enter the prefix and number of the course(s) from this form.

   Non-licensure programs:

   Teacher Licensure programs:

   Liberal Education:

   The above “service area” programs/departments were notified of this modification on ________ (date) by ____________________ (mail, email, or phone).

   Please check one of the items below:

   _____ No comments were received from other programs or departments within one week of the notification.

   _____ Comments were received within one week of the notification, and are attached.
BSU Curriculum Forms

Form 2
Updated 9.19.15

Course Modification Form

Current Course Number(s):
  Undergraduate: MATH 2210
  Graduate:
Proposed Course Number(s), if different:
  Undergraduate:
  Graduate:

Current Course Title: Discrete Mathematics
Proposed Course Title, if different:

Current Course Description: Symbolic logic, number concepts, mathematical induction, set theory, relations and functions, graphs, trees, recurrence relations, and complexity of algorithms. Prerequisites: CS 1309 or Math 1470 or higher or three years of high school mathematics (including two years of algebra) and an appropriate score on the Mathematics Placement Test. Prerequisites: CS 1309 or (CS 1107 and CS 1108) or Math 1470 or higher or three years of high school mathematics (including two years of algebra) and an appropriate score on the Mathematics Placement Test.

Proposed Course Description, if different:

Current Credits: 4
Proposed Credits, if different:

Current Prerequisite(s):
  Undergraduate: CS 1309 or (CS 1107 and CS 1108) or Math 1470 or higher or three years of high school mathematics (including two years of algebra) and an appropriate score on the Mathematics Placement Test.

Graduate:

Proposed Prerequisite(s), if different:
  Undergraduate: CS 1309 or Math 1470 or higher or three years of high school mathematics (including two years of algebra) and an appropriate score on the Mathematics Placement Test.

Graduate:

1) Reason(s) for change(s): CS 1108 was dropped from curriculum due to consistently low enrollment and the educational needs of these students can be met, albeit with different content and pedagogy, with CS 1309 Problem Solving and Computation where there is a sufficient number of seats.
2) May this modified course replace the current course for students remaining in the old curriculum? Yes ___ X__ No ______ If not, please drop the current course and submit a new course form for the modification.

3) Do these modifications change any of the following? For all Yes answers, please provide updated information on the next page.
   - Student Learning Outcomes Yes _____ No ___ X__
   - Major Content Areas Yes _____ No ___ X__
   - Projected Maximum Class Size (Cap) Yes _____ No ___ X__

4) Current Course fee(s) per student: $ for:
   Proposed Course fee(s) per student, if different: $ for:

5) Service Areas:
   This course is a requirement or an elective in the programs/areas listed below. To locate where this course appears please search the online catalog, as follows:
   a) go to http://www.bemidjistate.edu/academics/catalog/ and choose the most recent catalog(s),
   b) click on “Areas of Study, and Course Descriptions,”
   c) click on “PDF of Entire Catalog” in upper right,
   d) press Ctrl F, and enter the prefix and number of the course(s) from this form.

   Non-licensure programs:

   Teacher Licensure programs:

   Liberal Education:

   The above “service area” programs/departments were notified of this modification on ________ (date) by ____________________(mail, email, or phone).

   Please check one of the items below:
   ______ No comments were received from other programs or departments within one week of the notification.
   ______ Comments were received within one week of the notification, and are attached.
BSU Curriculum Forms

Form 8
Updated: 09.18.15

Signatures

Marty J Wolf / Professor of Computer Science / Not dated
Marty J Wolf / Professor of Computer Science / Date

Derek Webb / Chair of Mathematics and Computer Science Department / 03.21.2017
Derek Webb / Chair of Mathematics and Computer Science Department / Date Note: "All departmental recommendations [on curriculum] must be reviewed and approved by the department's faculty." -- IFO/MnSCU Master Agreement 2009-2011, 20.A.3 (p. 80).

At this point, packet goes to Records Office/Curriculum Coordinator to be logged in to the Curriculum Proposal Progress Grid.

Colleen Greer / Dean of College of Arts and Sciences / 05.18.2017
Colleen Greer / Dean of College of Arts and Sciences / Date

Note: If proposal is sent back to the Proposer, please notify the Curriculum Coordinator. If approved, packet goes to Academic Affairs Office.