WINONA STATE UNIVERSITY
NOTIFICATIONS

Department Computer Science Date 2/27/14

If the proposed curricular change involves existing courses and is considered a Notification, complete and submit this form. Refer to Regulation 3-4, ***Policy for Changing the Curriculum***, for complete information on submitting proposals for curricular changes.

Please check type of change(s):

__ Reduction in course number __ Change in grading option __ Change in hours or credits in an independent study course
__ Change in course title __ Change in course description* _X_ Change in existing major, minor, option, concentration, etc.*
__ Change in prerequisites __ Change in course number within level, e.g. 310 to 350 _____ Change in delivery method

A. **Current** Course Information

_____ _____ _____
Course No. Course Title Credits

This proposal is for a(n) _____ Undergraduate Course _____ Graduate Course

Applies to _____ Major _____ Minor
_____ Required _____ Required
_____ Elective _____ Elective

Prerequisites _____

Grading _____ Grade only _____ P/NC only _____ Grade and P/NC Option

Frequency of offering _____

Proposed Course Information. (Please indicate only proposed changes below.)

_____ _____ _____
Course No. Course Title Credits

Prerequisites _____

Grading _____ Grade only _____ P/NC only _____ Grade and P/NC Option

Frequency of offering _____

Effective date (normally the next semester) _____

B. *If the proposal requests a change in the course description, please attach a description of the change requested and list both the current and proposed course description. If the proposal requests a change in an existing major, minor, option, concentration, etc., please attach a description of the change(s) requested and list both the current and proposed program listings.

Approved by the Department NZebrath 2/28/14
Department Chair Date
Ndebrath@Winona.edu
e-mail address

Notification to the College Dean ✓ Yes ___ No
Charla S Mutschler 3/17/14
Dean of College Date

Presented at A2C2 meeting on 4/9/2014 [signature]
Date Chair of A2C2

Presented at Graduate Council meeting on (if applicable) _____ _____
Date Chair of Graduate Council

Submitted to Registrar on 4/10/2014
Date

Registrar: Please notify department chair via e-mail that Notification has been recorded.

*If a dean has comments on a notification, the dean shall forward the comments to the department. [Revised 7-13-11]

S 3/18/2014

CS Curriculum Fall 2014 (2015-3) Revised

CS Core (38 SH):
- CS 101 – Exploring Creative Computing (3)
- CS 234 – Algorithms and Problem Solving I (4)
- CS 250 – Algorithms and Problem Solving II (4)
- CS 275 – Mathematical Foundations of Alg. (4)
- CS 313 – Networking and Telecommunications (3)
- CS 341 – Data Structures (4)
- CS 375 – Computer Systems (4)
- CS 385 – Applied Database Management Systems (3)
- CS 410 – Software Engineering (3)
- CS 471 – Object Oriented Design and Dev. (3)
- Stat 210 – Statistics (3)

In addition to the CS Core, every CS major must also complete one of the following options.

CS Option (31 SH):
- Math 212 – Calculus I (4)
- CS 405 – Operating Systems (3)
- CS 415 – Principles of Programming Languages (3)
- CS 435 – Theory of Computation (3)
- CS Electives (18)

ACS Option (30-31 SH):
- Math 140 – Applied Calculus (3)
- CS 344 – Web Programming (3)
- CS 444 – Human Computer Interaction (3)
- CS 485 – Advanced Database Systems (3)
- CS Elective (3)
- ACS Emphasis (15-16)

Bioinformatics Emphasis (16 SH):
- Biol 241 – Basics of Life (4)
- Biol 242 – Organismal Diversity (4)
- Biol 310 – Genetics (3)
- *Chem 212 – Principles of Chemistry I (4)
- *Chem 213 – Principles of Chemistry II (4)
- CS 368 – Introduction to Bioinformatics (4)

OR

CIS Emphasis (15 SH):
- Acct 211 – Fin. Acct. Principles (3)
- Acct 212 – Man. Acct. Principles (3)
- *Econ 201 – Prin. Of Microecon. (3)
- *Econ 202 – Prin. Of Macroecon (3)
- 300-Level course from College of Business (3)
- CS Electives (6)

CS Curriculum 2011 Old Version

CS Core (35 SH):
- CS 234 – Algorithms and Problem Solving I (4)
- CS 250 – Algorithms and Problem Solving II (4)
- CS 275 – Mathematical Foundations of Alg. (4)
- CS 313 – Networking and Telecommunications (3)
- CS 341 – Data Structures (4)
- CS 375 – Computer Systems (4)
- CS 385 – Applied Database Management Systems (3)
- CS 410 – Software Engineering (3)
- CS 471 – Object Oriented Design and Dev. (3)
- Stat 210 – Statistics (3)

In addition to the CS Core, every CS major must also complete one of the following options.

CS Option (34 SH):
- Math 212 – Calculus I (4)
- CS 405 – Operating Systems (3)
- CS 415 – Principles of Programming Languages (3)
- CS 435 – Theory of Computation (3)
- CS Electives (21)

ACS Option (33-34 SH):
- Math 140 – Applied Calculus (3)
- CS 344 – Web Programming (3)
- CS 444 – Human Computer Interaction (3)
- CS 485 – Advanced Database Systems (3)
- CS Elective (6)
- ACS Emphasis (15-16)

Bioinformatics Emphasis (16 SH):
- Biol 241 – Basics of Life (4)
- Biol 242 – Organismal Diversity (4)
- Biol 310 – Genetics (3)
- *Chem 212 – Principles of Chemistry I (4)
- * Chem 213 – Principles of Chemistry II (4)
- CS 368 – Introduction to Bioinformatics (4)

OR

CIS Emphasis (15 SH):
- Acct 211 – Fin. Acct. Principles (3)
- Acct 212 – Man. Acct. Principles (3)
- *Econ 201 – Prin. Of Microecon. (3)
- *Econ 202 – Prin. Of Macroecon (3)
- 300-Level course from College of Business (3)
- CS Electives (6)

OR

HCI Emphasis (15 SH):
- *Psych 210 – Intro to Psych. Science (3)
- Psych 335 – Human Factors Psych. (3)
- Psych 369 – Cognitive Psychology (3)
- Psych 410 – Perception and Sensation (3)
- CS or Graphic Design Electives (6) – at most 3 SH from Graphic Design

* 6-8 credits count as USP or GEP requirements and not counted as part of the major

OR

HCI Emphasis (15 SH):
- *Psych 210 – Intro to Psych. Science (3)
- Psych 335 – Human Factors Psych. (3)
- Psych 369 – Cognitive Psychology (3)
- Psych 410 – Perception and Sensation (3)
- CS or Graphic Design Electives (6) – at most 3 SH from Graphic Design

* 6-8 credits count as USP or GEP requirements and not counted as part of the major