



# CURRICULAR CHANGES to MAJORS and MINORS APPROVAL FORM

**NOTE:** This approval form must be completed and received by the Provost's Office by **November 1** for changes to a major or minor to be approved for the following academic year.

**NOTE:** The following must be included in a memorandum attached to this Approval Form:

SEP 22 2009

- The date(s) the motion(s) was (were) approved.
- An explanation of the change(s) and why it (they) should be made.
- A comparison showing the current program and the program after the change(s).

Susan Volkassa 9-9-09  
 Approved by Department or Minor Oversight Committee Date

Approved by Department Chair\* Date

Approved by Department Chair\* Date

Approved by Department Chair\* Date

Jonathan C. Gundy Sept 21, 2009  
 Approved by Dean of School Date

Approved by Dean of School\* Date

**SEND TO THE PROVOST'S OFFICE**

Approved by Director of Interdisciplinary Studies (Interdisciplinary Only) Date

10-1-09 dl (information item)  
 Date approved by Undergraduate Council or Graduate Council

10-22-09 Kaf SB 0909  
 Date approved by Faculty Senate Bill Number

Approved by the Provost Date

Approved by the President Date

\*NOTE: If an Interdisciplinary Minor or the change affects more than one discipline, the Chair and Dean of each affected Department and School must sign.

## Proposed change to the CS Minor

*From:*

### Required Courses:

CS 170 Introduction to Computing I (3 hours)  
*and* CS 171 Introduction to Computing II (3 hours)  
*and* CS 172 Ada Fundamentals (1hour)

*or*

CS 180 Foundations of Computer Science I (3 hours)  
*and* CS 181 Foundations of Computer Science II (3 hours)

CS 310 Data Structures (3 hours)

*To:*

### Required Course:

CS 170 Introduction to Computing I (3 hours)  
*and* CS 172 Ada Fundamentals (1hour)

*or*

CS 180 Foundations of Computer Science I (3 hours)

### Required Courses:

CS 181 Foundations of Computer Science II (3 hours)  
CS 310 Data Structures (3 hours)

### Explanation

We are changing CS 171 Introduction to Computing II to make it more suited for students interested in taking a second computer science course but not interested in pursuing a major or minor in computer science. As a result of this change, CS 171 is no longer a suitable course for inclusion in a computer science minor.

Change approved by the Department of Mathematics and Computer Science September 8, 2009

current

## Computer Science Minor

The Computer Science minor requires the successful completion of 18 semester hours of the following courses or their equivalents. At least 9 semester hours must be taken at Truman State University:

### Required Courses:

CS 170 Introduction to Computing I (3 hours)  
and CS 171 Introduction to Computing II (3 hours)  
and CS 172 Ada Fundamentals (1 hour)

or

CS 180 Foundations of Computer Science I (3 hours)  
and CS 181 Foundations of Computer Science II (3 hours)

CS 310 Data Structures (3 hours)

### Elective Courses:

An additional 9 semester hours of CS courses, with at least 6 hours numbered 300 or above.

#### *Advanced Courses*

CS 250 Systems Programming (3 hours)  
CS 291 Models of Computation (3 hours)  
CS 315 Internet Programming (3 hours)  
CS 325 Bioinformatics (3 hours)  
CS 330 Computer Architecture and Organization (3 hours)  
CS 345 Cyberethics (3 hours)  
CS 360 Systems Analysis and Design (3 hours)  
CS 370 Software Engineering (3 hours)  
CS 380 Programming Languages (3 hours)  
CS 390 Operating Systems (3 hours)  
CS 420 Compilers (3 hours)  
CS 430 Database Systems (3 hours)  
CS 435 Parallel and Distributed Processing (3 hours)  
CS 460 Computer Graphics (3 hours)  
CS 470 Networks and Teleprocessing (3 hours)  
CS 480 Artificial Intelligence (3 hours)  
CS 490 Automata Theory and Formal Languages (3 hours)

Approval by MT/CS February 20, 2007

## Minor with proposed changes

# Computer Science Minor

The Computer Science minor requires the successful completion of 18 semester hours of the following courses or their equivalents. At least 9 semester hours must be taken at Truman State University:

### Required Course:

CS 170 Introduction to Computing I (3 hours)  
and CS 172 Ada Fundamentals (1 hour)

or

CS 180 Foundations of Computer Science I (3 hours)

### Required Courses:

CS 181 Foundations of Computer Science II (3 hours)

CS 310 Data Structures (3 hours)

### Elective Courses:

An additional 9 semester hours of CS courses, with at least 6 hours numbered 300 or above.

#### *Advanced Courses*

- CS 250 Systems Programming (3 hours)
- CS 260 Object-Oriented Programming and Design (3 hours)
- CS 291 Models of Computation (3 hours)
- CS 315 Internet Programming (3 hours)
- CS 325 Bioinformatics (3 hours)
- CS 330 Computer Architecture and Organization (3 hours)
- CS 345 Cyberethics (3 hours)
- CS 360 Systems Analysis and Design (3 hours)
- CS 370 Software Engineering (3 hours)
- CS 380 Programming Languages (3 hours)
- CS 390 Operating Systems (3 hours)
- CS 420 Compilers (3 hours)
- CS 430 Database Systems (3 hours)
- CS 435 Parallel and Distributed Processing (3 hours)
- CS 460 Computer Graphics (3 hours)
- CS 470 Networks and Teleprocessing (3 hours)
- CS 480 Artificial Intelligence (3 hours)
- CS 490 Automata Theory and Formal Languages (3 hours)