University of Wisconsin-Whitewater

Curriculum Proposal Form #4R

# **Change in or Deletion of an Existing Course**

Type of Action (check all that apply)

Pre-requisite Change

Add Cross-listing \*  Technological Literacy

Course Deletion  Title Change   
 Number Change  Writing Requirement

(other)

**Effective Term**:

**Current Course Number** (*subject area and 3-digit course number)*: COMPSCI 223   
**Cross-listing *(if applicable)***:

**New Course Number** (*subject area and 3-digit course number*):

**Cross-listing *(if applicable)***:

**\*If adding a cross-listing, include the following:**

Required in the major:   
  
Required in the minor:

Number of credits: Lab hours/week:    
  
Contact hours/week: Repeatable

**Current Course Title**: Advanced C++

**New Course Title**: **Data Structures**

**25-Character Abbreviation** *(if new title)*: Data Structures

**Sponsor(s)**: Jonathan Kane

**Department(s):** Mathematical and Computer Sciences

**College(s):**

**List all programs that are affected by this change:**

If programs are listed above, will this change affect the Catalog and Advising Reports for those programs? If so, have Form 2's been submitted for each of those programs?

(Form 2 is necessary to provide updates to the Catalog and Advising Reports)

NA  Yes  They will be submitted in the future

Proposal Information: ([***Procedures for form #4R***](http://acadaff.uww.edu/UCC/Curriculum_Handbook_09/Procedures_form4R.docx))

1. **Detailed explanation of changes** (use FROM/TO format)

***FROM:***

Prereq: COMPSCI 222 or MCS 220 and consent of instructor

Unreq: MCS 231

***TO:***

Prereq: COMPSCI 222 or MCS 220

Unreq: MCS 231

## Justification for action

The University now offers two courses in Data Structures: MCS 231 taught using the Java programming language and COMPSCI 223 taught using the C++ programming language. Considering the fact that the MCS program will be phased out, it makes sense to combine resources and teach only one of these two courses. At the level of Data Structures, the exact language used in the course is not particularly important, and the course can be effectively taught to an audience of students with backgrounds in either Java or C++. The only disadvantage is that the instructor will need to be fluent in both programming languages, but many of the current Computer Science faculty are able to teach both of these languages.