University of Wisconsin-Whitewater

Curriculum Proposal Form #4R

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

Type of Action (check all that apply)

 [x]  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 433
**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**: Theory of Algorithms

**New Course Title**:

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

**Sponsor(s)**: Athula Gunawardena, Lopa Mukherjee, Thomas Drucker

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

**College(s):**

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

Computer Science Major

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 [x]  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:***

Prerequisite: (~~MCS 231 or~~ COMPSCI 223) ~~or~~ (MATH 280 ~~and either COMPSCI 172 or COMPSCI 174~~)

***TO:***

Prerequisite: COMPSCI 223 **and** (**COMPSCI 215 or** MATH 280)

## Justification for action

The proposed COMPSCI 215 covers much of the same material as MATH 280, but with a focus on topics related to computer science and without requiring prior knowledge of calculus. Either course will prepare students for COMPSCI 433. The students will need both data structures and discrete mathematics backgrounds to follow the topics covered in COMPSCI 433. MCS 231 will no longer be offered.