Administrative Unit: Computer and Mathematical Sciences Department

Course Prefix and Number: CISS 312

Course Title: ACM Programming Contest

Number of: Credit Hours: 1 Lecture Hours: 1 Laboratory Hours: 0

Catalog Description: Open to computer majors participating in the ACM Programming Contest. May be repeated for a total of 3 semester hours. Offered Fall and Spring.

Prerequisite(s)/Corequisite(s): Junior standing; computer major – either CIS or CS, and permission of the instructor.

Text(s): None.

Course Objectives:
• To plan, analyze, design and implement a series of computer programs as a member of a coordinated team.
• To explore various organizational and deconstruction techniques in order to develop error-free programs in the shortest time possible.

Measurable Learning Outcomes:
• Create developmental structures.
• Prepare an organizational plan.
• Work as a member of a team.
• Develop testing criteria.

Topical Outline (major areas of coverage):
• Organizational technique and structures.
• Debugging techniques.
• Problem deconstruction techniques.

Recommended maximum class size for this course: 10

Library Resources: Online databases are available at http://www.ccis.edu/offices/library/resources.asp. You may access them from off-campus using your eServices login and password when prompted.

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Date: November 1, 2005

NOTE: The intention of the master syllabus is to provide an outline of the contents of this course, as specified by the faculty of Columbia College, regardless of who teaches the course, when it is taught or where it is taught. Faculty members teaching this course for Columbia College are expected to facilitate learning pursuant to the course objectives and cover the subjects listed in the topical outline. However, instructors are also encouraged to cover additional topics of interest so long as those topics are relevant to the course’s subject. The master syllabus is, therefore, prescriptive in nature but also allows for a diversity of individual approaches to course material.

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