SYLLABUS

COURSE NUMBER: CSC 656

COURSE TITLE: Foundations of Computer Science

CREDITS: 3:3:0

PREREQUISITES/COREQUISITES: CSC 350 or permission of instructor.

FOR WHOM PLANNED: Graduate students in Computer Science.

INSTRUCTOR INFORMATION:
Dr. Francine Blanchet-Sadri
Office number: 157 Petty Building
Office hours: MWF 8:30am–9:00am or by appointment
Phone number: 256–1125
E-mail address: blanchet@uncg.edu

CATALOG DESCRIPTION: Introduces the mathematical foundations that support advanced studies in computer science including computer programming and the analysis of algorithms.

STUDENT LEARNING OUTCOMES: The primary aim of the course is to provide a solid and relevant base of mathematical skills for graduate studies in Computer Science.

TEACHING STRATEGIES: Group lecture is the primary mode of instruction.

EVALUATION METHODS AND GUIDELINES FOR ASSIGNMENTS: In addition to 5 homework assignments worth 3 points each, three in-class tests worth 20 points each, and 5 points for class participation, graduate students taking CSC 656 will be required to give a 45-minute presentation of a technical paper related to the course. The weight of the presentation is 20 points.
Assignment 1 *Due January 28*

Assignment 2 *Due February 6*

Test 1 *February 11*

Assignment 3 *Due February 20*

Assignment 4 *Due March 6*

Test 2 *March 23*

Assignment 5 *Due April 10*

Presentations *January 26–April 22*

Test 3 *April 27*

**REQUIRED TEXT/READINGS/REFERENCES:** Francine Blanchet-Sadri, Algorithmic Combinatorics on Partial Words, Chapman & Hall/CRC Press ©2008. The following links

- [http://www.uncg.edu/cmp/research/partialwords](http://www.uncg.edu/cmp/research/partialwords)
- [http://www.uncg.edu/cmp/reu/resources](http://www.uncg.edu/cmp/reu/resources)

contain useful information on relevant papers, recommended literature, latex guidance, html assistance, beamer advice, technical writing, organizations, conferences, and journals related to the course. Topics include: Basics on Partial Words, Periodicity, Primitivity, Coding, and Further Topics.

**ACADEMIC HONOR CODE:** Each student is required to sign the Academic Integrity Policy on all major work submitted for the course.
ATTENDANCE POLICY: Students are expected to attend all the lectures. If a student misses any of them, it is his/her responsibility to find out what went on during the lecture and to collect any material that was handed out. Any student missing more than three lectures will fail the course (see ADDITIONAL REQUIREMENTS below).

ADDITIONAL REQUIREMENTS: Students will be allowed to drop the course after the drop deadline if there is supporting evidence of problems interfering with adequate course performance.

No make-up exam is given unless extenuating circumstances are proved.

I may withdraw a student from the course for behavior that is deemed by me to be disruptive to the class. The grade assigned will be “W” if the behavior occurs before the deadline for dropping the course without academic penalty, and I have the option of giving a “W” or a “WF” if the behavior occurs after the deadline. (Refer to POLICIES FOR STUDENTS)

Note that late arrivals are considered disruptive to the class. Any two late arrivals will be counted towards the missing of a lecture (see ATTENDANCE POLICY above).

No late assignment will be accepted. Solutions will be distributed the day an assignment is due.