

UCF

School of computer Science

COT 4810: Topics in Computer Science

Spring 2004

Syllabus

Instructor:

Euripides Montagne

Lecture meetings: MWF 10:30 – 11:20 (ENG 383)

Office hours: MTWR from 3:00 p.m. to 5:00 p.m (CSB 239)

Tele: 823-2684

Email: eurip@cs.ucf.edu

Teaching Assistant:

Hongliang Gao

Email: hgao@cs.ucf.edu

Office hours: TR from 3:00 p.m. to 5:00 p.m.(CSB 107)

Course Objectives and Pre-requisites:

To study a range of topics from the field of Computer Science; application of oral and written communication skills; social, ethical and moral issues of computing.

Course Topics:

Analysis of Algorithms, Artificial Intelligence, Complexity Theory, Data Structure, Logic and System Design, Theory of Computation, Automata and Languages, Computer Graphics, Coding and Cryptography, and Applications.

Prerequisites: COP 3530 and COP 3402.

Reference Guide:

The textbook for the course is: The **New** Turing Omnibus, by A.K. Dewdney, A.W.H Freeman/OWL Books, 2001.

Style of Class Meetings:

Class meetings will not consist of traditional lectures, with the instructor doing most of the talking and the student doing most of the listening. Rather, meetings will consist of discussions on each topic and the instructor will help guide the discussion by asking questions.

Important Dates:

- **Withdrawal Deadline is February 27, 2004.**
- **Holidays are:**
- **Martin Luther King Jr. Day January 19, 2004**
- **Spring Break March 8-13, 2004**

Grading Policy:

- (1) Participation (15%): attendance; participation in questions and discussions; the person who initiates a question, and the people who follow up, should write up the questions and answers and submit to the presenter, so that the presenter can summarize a list of the questions/answers and the names of people who ask the questions, and submit the summary to the instructor.
- (2) Homework assignments (20%): weekly; one question for each presented topic; typed up with spelling checked; turn in a hardcopy on its due date.
- (3) Three presentations (10% each):
 - One topic assigned by the instructor chosen from topics of the text; the second and third topics also assigned by the instructor from the students' submitted list of 3 preferred topics chosen from the text or other sources related to CS
 - Each presentation must be prepared in PowerPoint format, and will be evaluated based on the contents, presentation style, answers to questions, time management, and an abstract (around 100 words) submitted via email to the instructor on or prior to the day of presentation
 - Before the presentation, each presenter must prepare 3 homework questions with answers for the presented topic, submitted to the instructor(via email) along with the abstract (the instructor will make the weekly homework assignments based on the questions submitted by the presenters)
 - Each presenter must submit a summary of the questions/answers discussed during the presentation, along with the names of the people who participated; the summary should be typed up and submitted in a hardcopy within the next two classes after presentation
- (4) Three reports (10% each): Reports in Word or PDF format, approximately 5 double-spaced pages including abstract and at least 5 references; reports are due ten days after the presentation via a hardcopy.
- (5) Ethical and moral issues (5%): there must be (non-superficial) discussion related to ethical, moral issues of computing in at least one presentation and/or in one of the reports.

Letter grades: Over 89: A. Over 79: B. Over 69: C. Over 50: D. Below 50: F.

Late Penalty: First day: 20% less. Second day: 50% less.

Cheating Policy:

First Strike: The assignment gets 0 points and the final semester letter is down graded by one letter.

Second Strike: Letter grade F and a letter is placed in student's file.