CISC 3415: Principles of Robotics
Fall 2011 — Course information

• Instructor:
  Prof Simon Parsons
  http://www.sci.brooklyn.cuny.edu/~parsons
  email: parsons@sci.brooklyn.cuny.edu
  Office: 0119 Ingersoll
  Office hours: Tuesdays 3.00–5.00pm

• Also Virtual office hours:
  Monday and Wednesday, between 9.00 and 10.00pm on AIM, screenname profSimonParsons

• Course web page:
  http://www.sci.brooklyn.cuny.edu/~parsons/3415-fall-2011/

• Lectures and labs:
  Tuesday 6.30-9.15pm, in room 3409 N

• Textbook:
  Introduction to Autonomous Mobile Robots (second edition)
  by Roland Siegwart and Illah Nourbakhsh
  publisher: MIT Press
  It is available at the Campus Bookstore in the basement of Boylan Hall and from Amazon.

• Additional course materials:
  Course lecture notes, additional readings and multi-media sources will be available on-line.

• Prerequisites: CIS 2210 (discrete structures) and CISC 3130 (datastructures).

• Assessment:
  10 points = homework assignments
  60 points = projects
  30 points = final exam
  100 points

• Course objectives:
  – To introduce you to some of the basic theory of robotics;
  – To introduce you to some of the practical techniques in robotics;
  – To give you experience of applying both the theory and the practical techniques.

• The following topics will be covered:
  – Locomotion
  – Kinematics
  – Perception
  – Localization
  – Planning
  – Navigation
  – Mapping