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