We will cover selected bits from two textbooks available at the Hamilton Library

*Artificial Intelligence: A Modern Approach*, by Stuart Russell and Peter Norvig
http://aima.cs.berkeley.edu/

and (building on familiarity with Prolog from CS3011)

*Computational Intelligence*, by David Poole, Alan Mackworth and Randy Goebel
http://www.cs.ubc.ca/spider/poole/ci.html

plus other material to be presented at lectures.

The main topics are

- General background on AI/computation: the Symbol-system hypothesis and Turing machines as agents
- Search: blind and informed (heuristic), binary decision diagrams, constraint satisfaction
- Knowledge Representation & Reasoning: soundness, completeness, non-monotonicity, abduction, meta-interpretation

A minimal webpage will be maintained in

http://www.scss.tcd.ie/Tim.Fernando/3AI/index.htm

containing some course materials. (There is no guarantee that all relevant materials will end up there; come to class!)

There will be two assessed lab exercises, to be assigned about two weeks before they are due. Each will be worth 5% of your final mark, leaving 90% for the exam.

An attendance sheet will go around during each lecture. Please put your initials by your name if you want your presence noted. I will use the attendance record in borderline cases (moving you up, if you attend regularly).

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1The following is based on what I know as of 13 January 2017, and is subject to change.