Global Learning Semesters
Course Syllabus
Course: COMP-405 Artificial Intelligence
Department: Computer Science
Host Institution: University of Nicosia, Nicosia, Cyprus

Course Summary		
Course Code	**Course Title**	**Recommended Credit Hours**
COMP-405	Artificial Intelligence	3
Semester Offered	**Contact Hours**	**Prerequisites**
Fall	42	COMP-301 Data Structures and Senior Standing.
Department	**Level of Course**	**Language of Instruction**
Computer Science	Upper Division	English

Course Description

Topics to be covered: Problems and search, heuristic search techniques, semantic networks, predicate logic, representing knowledge using rules, reasoning under uncertainty (certainty factors, Bayesian Networks, Dumpster-Shaffer theory, Fuzzy Logic), game playing, expert systems, neural networks.

Instructor

Dr Athena Stassopoulou

Course Aims and Objectives

To provide an introduction to the theory and practice of Artificial Intelligence. To develop an understanding of the fundamental issues associated with the field such as problems and search, knowledge representation and reasoning, game playing, expert systems etc.

Teaching Methods

The course is delivered through a mixture of lectures and assignments.

Course Teaching Hours

42 hours. The course is delivered during the fall semester in 14-weeks (3 hours/week

Evaluation and Grading

Homework/Attendance/Participation: 5%
Quizzes/ Projects/Assignments: 10%
Tests: 35%
Final Exam: 50%

Readings and Resources

Required Textbook
E. Rich and K. Knight, Artificial Intelligence, McGraw Hill Inc
S. Russel and P. Norvig, Artificial Intelligence A Modern Approach, Prentice Hall, 2nd edition, 2003.

Recommended Reading
G. F. Luger and W. A. Stubblefield, Artificial Intelligence Structures and Strategies for Complex Problem Solving, 3rd ed., Addison-Wesley, 1998.