Carnegie Mellon University

MACHINE LEARNING
DEPARTMENT

Relevant Courses offered for Spring 2016

CORE COURSES:	**Data Analysis Project Preparation Course**
10-701 Machine Learning 10-702 Statistical Machine Learning 10-708 Probabilistic Graphical Models 15-750 Graduate Algorithms 15-826 Multimedia Databases & Data mining	10-821*, ML PhD students must register if you plan to satisfy your Data Analysis Project (DAP) requirements. *If PhD students have already taken ML Journal Club twice you don't need to register for 10-821.
Research Courses: 10-920 Grad Reading & Research 10-930 Dissertation Research	Students should register for 10-920 R & R until they propose. After you propose, register for Dissertation Research.

Suggested Research Depth Electives:

For ML PhD students, two advanced electives, chosen in consultation with the student's advisor, form a research depth concentration. Approved Research Depth electives are listed below.
Full list of Approved Electives

Research Depth in AI: 10-708 Probabilistic Graphical Models 15-780 Graduate Artificial Intelligence 15-896 Truth, Justice and Algorithms	**Research Depth in Computer Vision:** 16-720 Computer Vision 16-822 Geometry-Based Methods in Vision 16-824 Visual Learning & Recognition
Research Depth in Algorithms & Theory 15-896 Truth, Justice and Algorithms	**Research Depth in CNBC Track:** 03-762 Systems Neuroscience 36-759 Statistical Models of the Brain **Applicable Courses from the University of Pittsburgh** http://www.cmu.edu/hub/registration/undergraduates/cross/outgoing.html
Research Depth in Computational Biology: 02-710 Computational Genomics 02-717 Algorithms in Nature 02-718 Computational Medicine 02-740 Bioimage Informatics 10-708 Probabilistic Graphical Models	**Research Depth in NLP or Text Analysis:** 10-708 Probabilistic Graphical Models 11-727 Computational Semantics for NLP 11-741 Machine Learning for Text Mining 11-761 Language and Statistics

Suggested Electives from Statistics

(For ML PhD Students, one elective or courses combined for a total of 12 units must be chosen from Statistics)
36-723 Hidden Markov Models: Theory and Applications, A4
36-752 Adv. Probability Overview
36-759 Statistical Models of the Brain

Other electives from SCS approved but don't have a category:

11-755 Machine Learning for Signal Processing
18-755 Networks in the Real World

Course Registration

Full list of courses offered at the University