

Louisiana Tech University  
College Of Engineering and Science  
Fall 2013  
CSC 475, Artificial Intelligence

Instructor: Dr. Vir V. Phoha

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Office Hours: T W Th 10:00 a.m. – 1:00 pm  
M 11:00 am – 12:00 noon

Class Time: 2:00 am – 3:50 am T Th

Location NH 105

Text: Artificial Intelligence: A Modern Approach, Third Edition by Stuart  
Russel and Peter Norvig, Prentice Hall, 2010.

Folder created by instructor, Technical Reports, research papers, handouts.

**COURSE DESCRIPTION:**

One of the aims of artificial intelligence is to build intelligent entities. This course will cover foundational aspects of building intelligent entities with a focus on machine learning algorithms for classification of data streams. In particular, the course will address algorithms for building recognition systems with emphasis on pattern classes, sensing environment, feature engineering, classifier design and learning selection, and performance evaluation.

We will have individual and group projects related to building *intelligence* in data mining, Web searching, authentication, privacy, Web personalization, Web Caching, Web Mining, Web Security and other emerging areas.

**STUDENT EVALUATION:**

Examinations	50%
Research paper (G) or project (UG)	15%
Projects/Homework/Quizzes	30%
Class participation	5%

## Graduate and Undergraduate

The research paper or project requirements for graduate students are different than those from undergraduate students. I will elaborate more on the graduate and undergraduate requirements at the time of giving the assignment.

### GRADE ASSIGNMENT

Percentage points	Grade
90 $\geq$	A
80 $\geq$ -- < 90	B
70 $\geq$ .. < 80	C
60 $\geq$ .. < 70	D
< 60	F

Regular attendance is expected. I reserve the right to lower student's grade by one level for each occurrence of three absences. No makeup exams will be given.

Students who have arranged their other activities around test schedules and complete each exam when administered may replace their lowest test score with the score on their comprehensive final.

### GENERAL:

Do not bring food or drink in the class. Do not bring any visitor in the class. Make sure that you are on time for each class. **Do not be late.**

Submit each assignment before the beginning of the class period on the due date. If you submit an assignment at the end of the class period, it is late by one day. You lose 20% of the assignment grade for each late day with a maximum penalty of 60%. The assignment becomes dead after I have returned the graded assignment.

For your homework assignments, projects, article reviews, and exams (1) write only on one side of the paper, (2) write your name and student registration number on the top right of each page.

You are responsible for the material covered in the class lectures and the assigned reading material. To emphasize self-study and strengthen the habit of learning over and beyond what is taught in the class lectures at least ten percent of the questions will be from the material not covered in the class. I suggest that you do the review questions at the end of each chapter.

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Addendum to the Syllabus (Given on October 17, 2013)

- a. Accommodations for **students with disabilities**. An appropriate syllabus statement is **“Students needing testing or classroom accommodations based on a disability are encouraged to discuss those needs with me as soon as possible.”** (Please refer also to [www.latech.edu/ods](http://www.latech.edu/ods) for assistance.
- b. **Academic Honor Code:** **“In accordance with the Academic Honor Code, students pledge the following: Being a student of higher standards, I pledge to embody the principles of academic integrity.”** (<http://www.latech.edu/documents/honor-code.pdf>).
- c. **Emergency Notification System (ENS):** **“Emergency Notification System: All Louisiana Tech students are strongly encouraged to enroll and update their contact information in the Emergency Notification System. It takes just a few seconds to ensure you’re able to receive important text and voice alerts in the event of a campus emergency. For more information on the Emergency Notification System, please visit <http://ert.latech.edu>.**