



# Department of Computer Science

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## COURSE SYLLABUS

CS 573

Neural Networks

3 Credit hours

Fall 2007

- Location:** AB1 # 211
- Class meeting time:** 3:00pm – 4:30pm MW
- Instructor:** Jiahuang Ji
- Office:** AB1 #212B (tele. 294-1579, email address: jiahuang@shsu.edu)
- Office hours:** W 10:00am – 3:00pm  
TTh 12:30pm – 3:30pm
- Course description:** An introduction into Neural Networks. Topics include discussion of variety of standard neural networks, with architecture, training algorithm, and applications; and development of neural network expert systems.
- Course objectives:** This course provides students knowledge of neural network systems. As one of powerful tools, the students will be able to use the knowledge in developing intelligent software systems.
- Prerequisite:** Background of calculus and linear algebra
- Textbook:** Fundamentals of Neural Networks, by Laurene Fausett and published by Prentice-Hall. Lecture notes
- Course requirements:**
- Assignments: The students will be required to do research by reading papers, investigating the advanced software systems, writing reports, and giving presentations on the research results. Students will also need to work on programming projects and give presentation/demonstration on the projects. All the homework is due in class on the due date, Not midnight. Late homework is accepted up to a week with penalties (2% off on the due date but after class, 5% off on the second day, 5% off on each additional day.)
- Exams: Three exams, including the final exam will be given. All the examinations are written examinations. There is no make-up examination available for any student. If a student has a good reason on missing an exam, the grade he/she receives from the following exam is counted for both. Students who fail to take the final examination fail the class automatically unless excused for good cause by the college Dean.
- Grading plan:
- |                      |   |
|----------------------|---|
| Assignments          | 30%                                     |
| First exam           | 15% (at about the beginning of October) |
| Second exam          | 20% (at about the middle of November)   |
| Final exam           | 35%                                     |
| $\geq 90$            | $\Rightarrow$ A                         |
| $\geq 75$ but $< 90$ | $\Rightarrow$ B                         |
| $\geq 60$ but $< 75$ | $\Rightarrow$ C                         |
| $< 60$               | $\Rightarrow$ F                         |
- Class participation:** In accordance with University Policy (<http://www.shsu.edu/students/guide/polpro/attendance.html>), regular attendance is required, however, no points will be awarded or subtracted based on your attendance. You are responsible for all material covered in every class, regardless of whether you attended or not. It is your responsibility to obtain notes, assignments, etc., from fellow class members if you miss a class.
- Academic dishonesty:** All students are expected to engage in all academic pursuits in a manner that is above reproach. Students are expected to maintain complete honesty and integrity in the academic experiences both in and out of the classroom. Any student found guilty of

dishonesty in any phase of academic work will be subject to disciplinary action. The university and its official representatives may initiate disciplinary proceedings against a student accused of any form of academic dishonesty including, but not limited to, cheating on an examination or other academic work which is to be submitted, plagiarism, collusion and the abuse of resource materials.

No cheating on an examination or assignments is allowed. A score of zero will be given to the student if such a case occurred.

**Rules of conduct:**

Students will refrain from behavior in the classroom that intentionally or unintentionally disrupts the learning process and, thus, impedes the mission of the university. Please turn off or mute your cellular phone and/or pager before class begins. Students are prohibited from eating in class, using tobacco products, making offensive remarks, reading newspapers, sleeping, talking among each other at inappropriate times, wearing inappropriate clothing, or engaging in any other form of distraction. Inappropriate behavior in the classroom shall result in a, minimally, a directive to leave class or being reported to the Dean of Students for disciplinary action in accordance with university policy.

**Visitors in the classroom:** Occasion visiting of classes by responsible persons is allowed with prior arrangement with the instructor, as long as it does not interfere with the registered members of the class or the educational process.

**Other administrative matters:**

Americans with Disabilities Act: According to University policy requests for accommodations must be initiated by the student. A student seeking accommodations should go to the Counseling Center and Services for Students with Disabilities (SSD) for instructions.

Religious Holidays: An institution of higher education shall excuse a student from attending classes or other required activities, including examinations, for the observance of a religious holy day, including travel for that purpose. A student whose absence is excused under this subsection may not be penalized for that absence and shall be allowed to take an examination or complete an assignment from which the student is excused within a reasonable time after the absence.