CMPS 375
Computer Architecture
Summer 2017

Instructor: Dr. Kuo-pao Yang
Title: Professor
Office: 327C Fayard Hall
Telephone: (985) 549 - 5088
Email: kyang@selu.edu
Web Page: http://www2.selu.edu/Academics/Faculty/kyang
YouTube: https://www.youtube.com/user/yangkuopao
Office Hours: T, W 12:15PM - 01:30PM; T 04:15PM – 04:45PM


Course Description: Credit 3 hours. Prerequisite: CMPS 293 or 290. Hardware organization and implementation of computer architecture. Instruction set considerations and addressing modes. System control concepts. CPU control, microprogramming, I/O interface and memory organization. Parallel and data flow architecture.

Schedule (Tentative):

<table>
<thead>
<tr>
<th>Week #</th>
<th>Week of</th>
<th>Topics to be Covered</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>05/29</td>
<td>Chap01: Introduction</td>
</tr>
<tr>
<td>2</td>
<td>06/05</td>
<td>Chap02: Data Representation in Computer Systems</td>
</tr>
<tr>
<td>3</td>
<td>06/12</td>
<td>Chap03: Boolean Algebra and Digital Logic</td>
</tr>
<tr>
<td>4</td>
<td>06/19</td>
<td>Chap04: MARIE: An Introduction to a Simple Computer</td>
</tr>
<tr>
<td>5</td>
<td>06/26</td>
<td>Project Midterm Presentations; Midterm Exam</td>
</tr>
<tr>
<td>6</td>
<td>07/03</td>
<td>07/04: Independence Day Holiday</td>
</tr>
<tr>
<td>7</td>
<td>07/10</td>
<td>Chap05: A Closer Look at Instruction Set Architectures</td>
</tr>
<tr>
<td>8</td>
<td>07/17</td>
<td>Chap06: Memory; Project Final Presentations</td>
</tr>
<tr>
<td>9</td>
<td>07/24</td>
<td>Final Exams</td>
</tr>
</tbody>
</table>

07/06: Last day to withdraw or resign from the University
07/26: Last day to return rental textbooks without a fine

Grading Policy:

Programs/Homework 25%
Projects 35%
Midterm Exam 20%
Final Exam 20%

A: 90 – 100 %; B: 80 – 89 %; C: 70 – 79 %; D: 60 – 69 %; F: 0 – 59 %
Attendance Policy: Attendance is mandatory for all sessions of this course. Absences will be excused only with a valid written excuse, such as from a physician. http://www2.selu.edu/Academics/Depts/FacSen/attendencepolicy.pdf

Program/Homework: Programs/Homework will be collected periodically. Selected problems will be graded. No late Programs / homework will be accepted.

Examinations: There will be a midterm and a final examination. No makeup examinations will be given. If you miss an examination with an excused absence, your grade for this missed examination will be replaced of your final examination. In the case of illness, doctor’s excuse is needed. If your absence is unexcused, you will receive a grade of zero on the examination you missed.

Academic Dishonesty: Cases involving alleged academic dishonesty will be dealt with according to established university policies. Classroom behavior that is determined inappropriate and cannot be resolved by the student and the faculty member may be referred for administrative or disciplinary review. Cheating on examinations, plagiarism, improper acknowledgment of sources in essays and the use of a single essay or paper in more than one course without permission are considered very serious offenses and shall be grounds for disciplinary action. Additional information about the Code of Student Conduct may be found at Student Handbook: http://www.selu.edu/admin/stu_affairs/handbook

ADA Accommodation: If you are a qualified student with a disability seeking accommodations under the Americans with Disabilities Act, you are required to self-identify with the Office of Disability Services, Room 111, Student Union. No accommodations will be granted without documentation from the Office of Disability Services.

Classroom Decorum: Free discussion, inquiry, and expression are encouraged in this class. Classroom behavior that interferes with either (a) the instructor’s ability to conduct the class or (b) the ability of students to benefit from the instructor is not acceptable. Examples include routinely entering class late or departing early; use of beepers, cellular telephones, or other electronic devices; repeatedly talking in class without being recognized; talking while others are speaking; or arguing in a way that is perceived as “crossing the civility line.” In the event of a situation where a student legitimately needs to carry a beeper or cellular telephone to class, prior notice and approval of the instructor is required.

The office/classroom is not a place for children and neither employees nor students are to bring their family members for day care or baby sitting. If children require care, then the employee/student is expected to provide that care in an environment other than Southeastern office/classroom space.