Florida International University  
School of Computing and Information Sciences  
**Computer Systems Fundamentals**  
CIS 5027-U01 and 5027-RH1  
Fall 2017  

1 **Instructor**  
Professor: Dr. Shu-Ching Chen  
Office: ECS 345, (305)348-3480  
E-mail: chens@cs.fiu.edu  
Office Hours:  
- Tuesday: 2PM – 4:30PM  
- Thursday: 2PM – 4:30PM  
- Other times by prior appointment (please call or send e-mail) 

2 **Teaching Assistant**  
Samira Pouyanfar  
Office: ECS 257, (305)348-6885  
E-mail: spouy001@cs.fiu.edu  
Office Hours:  
- Tuesday: 2PM – 4:30PM  
- Thursday: 2PM – 4:30PM  

3 **Class Web Site and Time**  
- Room and Time: GL 139, Tuesday/Thursday 12:30PM – 1:45PM  

4 **Midterm Examination**  
- Date: October 19, 2017 (Thursday)  
- Time: 12:30PM - 1:45PM  
- Room: Green Library 139  

5 **Final Examination**  
- Date: December 5, 2017 (Tuesday)  
- Time: 12:00PM - 2:00PM  
- Room: Green Library 139
6 Objective

This course provides a thorough understanding of fundamentals of computer-based information systems and how they are used in modern enterprise systems. It introduces the fundamentals of operating systems, networking systems, distributed systems, and web services. It explores the hardware, software, and network components of typical information systems and provides some in depth description of their design principles, algorithms and implementation techniques.

7 Textbook


8 Topics

- Introduction of Computer Systems
- System Models
- Operating system support
- Optimizing Program Performance
- The Memory Hierarchy
- Linking
- Exceptional Control Flow
- Virtual Memory
- Mobile and Ubiquitous Computing
- Web Services

9 Grading Policy

- Midterm Examination 30%
- Final Examination 35%
- Assignments (homeworks and programming project) 35%

10 Lab

The students will use the Graduate Student Lab housed in ECS-252.
11 Notes

- Deadline to drop a course with a DR grade: October 30, 2017.
- No late homeworks will be accepted, and no make-up for the midterm and final examinations will be given.
- Both the midterm and final examinations will be taken on campus. Those who are unable to attend may schedule an off-campus proctored exam with Proctor. Please notify the professor at least three weeks ahead of time so that he may arrange accommodations.
- Each student should complete his/her homework and project assignments independently.
- All students should turn in the assignments at the beginning of the on-campus class on the due date.
- FEEDS/Online students should watch all the lecture videos.
- Academic misconduct will not be tolerated by the University, nor will it be tolerated in the classroom.
- On November 28, 2001, Student Government Council voted to endorse a Code of Academic Integrity:
  “Florida International University is a community dedicated to generating and imparting knowledge through excellent teaching and research, the rigorous and respectful exchange of ideas, and community service. All students should respect the right of others to have an equitable opportunity to learn and honestly to demonstrate the quality of their learning. Therefore, all students are expected to adhere to a standard of academic conduct, which demonstrates respect for themselves, their fellow students, and the educational mission of the University. All students are deemed by the University to understand that if they are found responsible for academic misconduct, they will be subject to the Academic Misconduct procedures and sanctions, as outlined in the Student Handbook.”