Course Syllabus	**EECS 4520 - Advanced Systems Programming**
Credits & Contact hours	4 credit hours & four 50-minute lecture contact hours per week
Coordinator	Dr. Jerry Heuring
Textbook	W. Richard Stevens; Stephen A. Rago, "Advanced Programming in the UNIX® Environment: Third Edition", Addison-Wesley Professional, 2013.
Course Information	Pertinent concepts of systems programming. Topics covered include: synchronization, distributed programming models, kernel design, peripheral handling, file systems and security history and methods. Prerequisite: EECS 3540 Elective course
Topics	1. I/O libraries 2. System information 3. File System manipulation 4. IPC facilities 5. Asynchronous I/O 6. Networking 7. Daemons 8. Threads 9. Process Creation 10. File Locking 11. MPI Basics