Visual Programming CPS 104/01 (3 credits) – Fall 2014
Time: Mon, Thu: 9:30 - 10:45, Location: CSB-021

Office Hours: 10:50-12:25 on M,R and 10:50-11:15 on T,F
Office: FOB N7
Phone: 257-3574
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Course Website: at Blackboard https://bbnewpaltz.sln.suny.edu

Instructor: Dr. Hanh Pham

Description: We will learn basic components of computers and how they operate. Learn advanced problem solving techniques such as conditional statements, iterations, recursion, and procedures, through designing programs. Design and develop applications (programs) using visual programming tools for mobile devices (smart phones, tablets) using Google-MIT AppInventor in cloud computing environment. More details including class schedule, subtopics, and lecture notes are posted online via a link at Blackboard.

Outcomes & Topics:
1) Be familiar with computer organization and operations.
2) Understand basic concepts and techniques of programming such as creations of application(app) window, program controls (if-then-else, loops), input/output, procedures, and working with databases.
3) Know the principles of visual programming and graphical user interfaces(GUI).
4) Build applications to solve various problems. Understand the design, development, and testing procedures for applications (software).
5) Use Google-MIT AppInventor for programming and application design.
6) Get hand-on experience in designing, developing, and testing of software for portable devices, such as tablets and cell phones, in cloud computing environment.

Textbook: we use learning materials posted at:
http://www.appinventor.org/book2

Assignments and Exams: Students will have:
- Weekly homework programming assignments: requirements and deadlines will be given online later.
- Midterm exam: Thursday, 10/09/14
- Final exam: Monday, 12/15/14, 10:15 to 12:15

Grading Policy: 100% = 25%(Midterm Exam) + 40%(Programming Projects) + 35%(Final Exam)
[100-90] get A; [90-85] get A-; [85,80] get B+; [80,75] get B; [75,70] get B-; [70,65] get C+; [65,60] get C;
[60-55] get C-; [55-50] get D; [50-0] get F.

Academic Integrity & Attendance:
+ Each work must be done individually from the start. Group works are not allowed. More details are at:
http://www.newpaltz.edu/ugc/policies_integrity.html
+ Student must attend all lectures. 2% will be deducted for each lecture missed without documented excuse. If a student misses a class it is his/her responsibility to learn what he/she missed.

Important Notes:
- Talking and texting on phones, chatting, IM, email on PC, recording lectures, all are not allowed during class time.
- There will be no make-up exams for exams missed during the semester, regardless of the reasons. All deadlines are strict. Late works will not be graded nor counted.
- Last day for course withdrawal and for Satisfactory/Unsatisfactory option is October 31.
- SEI will be online during December 1-10.
- The College’s Disability Resource Center (DRC) coordinates reasonable accommodations for students with documented physical, learning, or other disabilities.