Thomas L. Brown
http://faculty.tamuc.edu/tombrown
conference: 3:30 Mon thru Thur + appts.

Office: Jour 238
Phone: 903.886.5403

CS 233: Application Program Development

Course Description:

Application program development emphasizes software development with the use of integrated development tools, software development kits, and software subsystems to develop database and eCommerce applications. Learning activities include classroom presentations and discussions, laboratory, and online tasks to develop the knowledge and skills necessary to write effective computer programs for information system applications.

Audience:

Students planning to enroll for this course should have mastered the objectives set for an introductory course in computing including the fundamentals of programming (e.g. CSci 151).

Student Learning Outcomes*:

1. Acquire the skills to edit, test and implement software for a client-server environment;
2. Develop programs to retrieve data from forms and files to produce user displays and reports;
3. Learn programming constructs and develop programs that use strings, dates, arrays, functions, classes and objects;
4. Design and develop user interfaces to collect and present data and information;
5. Develop code to use regular expressions, handle exceptions and validate data for file and database storage;
6. Implement measures to create secure web sites;
7. Design, create, and process a database;
8. Design and develop pages for a typical web application(e.g. shopping cart).

* measured by exam, quiz, lab and homework assignment results

References and Materials:

1. Welling and Thomson. PHP and MySQL Web Development, 4ed., Indianapolis: Developer's Library–Sams Publishing. (2009; ISBN: 978-0-672-32916-6)
   *This item is available as an A&M-Commerce Safari book(online--Gee Library).
2. PHP, MySQL and Apache webserver are free for academic use and may be downloaded from php.net or mysql.com or as a package from apachefriends.org.
3. A usb flash drive for storing files and software.

Measurement and Evaluation:

Grades will be based upon an evaluation of three exam scores (300 points) and eight lab projects (200 points). A point total in the range of 450-500 will earn the grade "A", 400-449 a "B", 350-399 a "C" and so on. College policy must be followed to obtain an "X" (incomplete). Unless circumstances are beyond control, the student is expected to withdraw instead of delaying completion of the course.

Mon & Wed 11 - 12:15 Journalism 200

Class Policy, Procedure and Rules

Assigned Readings:
The student is expected to read assignments to prepare for scheduled discussions of the material.

Attendance:
The student is expected to attend an orientation class, exam meetings, and scheduled presentations. Regular class and/or online participation should ensure that expectations are understood, and provide feedback to monitor and assess progress. The student is responsible for accessing the course website to obtain assignments and related materials.

Participation:
The student is expected to take part in class or online discussions and "standups", implement and test software and program examples, and assist classmates with technical issues.

Lab projects:
It is expected that the student will begin each project when assigned or as topics are approved, then present system components by the scheduled progress reporting dates.

Exams:
The student is expected to complete exams as scheduled. If an exam is missed, the next exam score will be substituted. Exams are based upon all learning objectives to be reached before the scheduled date.

Intellectual Honesty:
By departmental policy, the discovery of plagiarism (i.e. copying from another's exam paper or lab project) will result in a grade of "F" on that submission for an individual grade. A subsequent breach of this policy mandates a grade of "F" for the course.

Conduct:
"All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment." (Student Handbook) Until a specific university policy is published, smoking of any type is prohibited in or near the classroom.

Special Accomodations:
Students in need of accomodations for disabilities should contact the Director of Disability Resources and Services, Gee Library, Room 132, phone 903.886.5150 or 5835.