Prerequisites: COSC 4311

COSC 4324  Emerging Technology Solutions for Business  3 Credit Hours
This course is for Business majors and computer science majors. In order for this class to work, there
must be a mixture of students from both disciplines. Students investigate various emerging
technologies for both their business and technical potential. Teams pairing business students with
computer science students will explore whether there are any business opportunities in the emerging
technologies that could be exploited for a new business. Business plans and technical plans are put
together as a class project. The students have an opportunity to compete in the Moot Corp
competitions that are nationwide. This course may have an equivalent Business course number.
Prerequisites: MGMT 3311, or instructor approval

COSC 4325  Electronic Commerce and the Internet  3 Credit Hours
The course provides students an understanding of issues associated with conducting electronic
commerce on the Internet through case studies, in-class discussions, lectures, and course projects.
Students develop an understanding of current practices and opportunities in electronic publishing and
advertising, electronic shopping and distribution, and become familiar with related software
development tools of HTML, XML, and others. The course will include Internet-based procurement
and supply chain management issues; ethical and legal issues; and examples of successful and
unsuccessful Internet firms. The course provides students with an overview of some of the technical
aspects of Web site development methods and construction. The course also explores several of the
problems surrounding electronic commerce such as security.
Prerequisite: Upper division standing in Computer Science

COSC 4366  Computer Graphics  3 Credit Hours
This course is an introduction to computer graphics. Topics included are raster graphics algorithms,
graphics hardware and software, projections in 3-D, geometrical transformations, object hierarchy,
dialogue design, achromatic and colored light in the quest for visual realism.
Prerequisite: MATH 2414

COSC 4367  Special Topics in Computer Science  3 Credit Hours
Special topics include: compiler design, parallelism and concurrency, computer vision, database
principles, computer communications networks, internetworking and intranet working, genetic and
neural computing, and simulation. Students may repeat the course as topics vary.
Prerequisites: Instructor approval

PRE-ENGINEERING PROGRAM
(Huston-Tillotson University and Prairie View A&M University)

Mission

The Pre-engineering Program is to provide an opportunity for students to combine
educational experiences at a small liberal arts college and a large state-supported university
that lead to baccalaureate degrees in mathematics and engineering.