Memo

To: Chair, University Undergraduate Council  
From: Fred Lewallen, Associate Dean for Academic Affairs  
Date: 10/14/2010  
Re: Change of CIS degree Plan to require ITEC 2337 - Fundamentals of Information Security

Reason: In recognition of the importance of information systems security to industry and to the nation, the CIS faculty have voted to require that all CIS majors have a basic background in systems security. To accomplish this, the faculty voted to require all CIS majors to take ITEC 2337 - Fundamentals of Information Security. In order to accommodate the addition of this course to our Major Courses and not increase the number of hours for the degree, Math 1310 (College Algebra) would be dropped from the CIS Degree Plan. The CIS Degree Plan will continue to meet all University and ABET requirements for math/quantitative credit hours. Furthermore, the dropping of Math 1310 is consistent with other degree plans in the College of Technology.

Impact of Change: Increase the Major Courses Requirement from 51 hours to 54 hours. Does not change the total number of hours required for the degree

Precedent: the dropping of College Algebra to satisfy additional major course requirements have been previously approved for the following 5 degree plans within the College of Technology:

- Biotechnology submitted Fall 2007
- Computer Engineering Technology- Fall 2008
- Electrical Power Engineering Technology (NO algebra, but does have at least 12 hours of math)
- Mechanical Engineering Technology
- Construction Management
COMPUTER INFORMATION SYSTEMS

UNIVERSITY OF HOUSTON
COLLEGE OF TECHNOLOGY
NAME

UNIVERSITY CORE REQUIREMENTS (42 SH)

Communication (6 SH) GR SH AH
ENGL 1303 English Composition I
ENGL 1304 English Composition II

Writing in the Discipline (3 SH)
TELS 3363 Technical Communication in the CIS Environment satisfies the WID requirement

History/Government (12 SH)
HIST 1376 or 1377 US History to 1867
HIST 1378 or 1379 US History since 1867
POLS 1336 US & TX Const/Politics
POLS 1337 US Government

Humanities* (3 SH)

Visual/Performing Arts* (3 SH)

Social/Behavioral Sciences (3 SH)
PSYC 1300 Intro Psychology

Math/Reasoning (7 SH)
MATH 1330 PreCalculus
MATH 1431 Calculus I

** Students are required to have credit for College Algebra through the Math Placement Exam, CLEP or completion of the course.

Natural Sciences* (6 SH)


Other Requirements (9 SH)
LOGT 2362 Intro to Logistics Technology
TECH 3365 Appl Discrete Mthd in Tech
TMTH 3360 Applied Tech Statistics

*Refer to class schedule for courses, which satisfy University requirements.

36 advanced hours required (3000-4000 level)

TSI requirements must be met (see advisor)

For graduation with HONORS, see Undergraduate Catalog

COLLEGE AND DEPARTMENT REQUIREMENTS

CIS Environment (18 SH) GR SH AH
ACCT 2331 Acct Principles I: Financial
ECON 2301 Economic Concepts & Issues
TELS 3340 Org Leadership & Sprvs
TELS 3363 Tech Communication (WID)
TELS 4341 Production & Service Ops
TELS 4342 Quality Improvement Methods

MAJOR REQUIREMENTS (54 SH)

Must receive a “C” or better in major core courses taken since Fall 2001.

CIS Core (42) GR SH AH
COSC 1304 C Language Program**
ITEC 1301 Computer Appl in Tech
CIS 2332 Info Tech Hdwr & Sys Sftwr
CIS 2334 Info Systems Applications
CIS 2336 Internet Applications Dev
CIS 2337 Fundamentals Info Security
CIS 2348 Info Sys Appl Development
CIS 3343 Info Sys Anal & Design
CIS 3347 Principles of Info Mgt
CIS 3355 Integrated Info Systems
CIS 3365 Database Management
CIS 4338 Dbase Admin & Implement
CIS 4339 Enterprise Applications Dev
CIS 4375 Project Mgmt and Practice

Approved Technical Electives (12 SH)

** ELET 2300-Intro to C++ Programming or COSC 1410 Introduct to Computer Science I may be substituted for COSC 1304.

Total hours required: 121 semester hours

APPROVALS:

Student Signature Date

Advisor Date

Proposed Fall 2011
UNIVERSITY OF HOUSTON
COLLEGE OF TECHNOLOGY

NAME

COMPUTER INFORMATION SYSTEMS
INFORMATION & LOGISTICS DEPARTMENT
BACHELOR OF SCIENCE

UNIVERSITY CORE REQUIREMENTS (42 SH)

Communication (6 SH) GR SH AH
ENGL 1303 English Composition I
ENGL 1304 English Composition II

Writing in the Discipline (3 SH)
TELS 3363 Technical Communication in the CIS Environment satisfies the WID requirement

History/Government (12 SH)
HIST 1376 or 1377 US History to 1867
HIST 1378 or 1379 US History since 1867
POLS 1336 US & TX Const/Politics
POLS 1337 US Government

Humanities* (3 SH)

Visual/Performing Arts* (3 SH)

Social/Behavioral Sciences (3 SH)
PSYC 1300 Intro Psychology

Math/Reasoning (7 SH)
MATH 1310 College Algebra
MATH 1431 Calculus I

Natural Sciences* (6 SH)

Other Requirements (12 SH)
MATH 1330 Precalculus
LOGT 2362 Intro to Logistics Technology
TECH 3365 Appl Discrete Mthd in Tech
TMTH 3360 Applied Tech Statistics

College and Department Requirements (30 SH)

CIS Environment (18 SH) GR SH AH
ACCT 2331 Acct Principles I: Financial
ECON 2301 Economic Concepts & Issues
TELS 3340 Org Leadership & Sprvs
TELS 3363 Tech Communication (WID)
TELS 4341 Production & Service Ops
TELS 4342 Quality Improvement Methods

Major Requirements (51 SH)

Must receive a "C" or better in major core courses taken since Fall 2001.

CIS Core (39) GR SH AH
COSC 1304 C Language Program**
ITEC 1301 Computer Appl in Tech
ITEC 2332 Info Tech Hdwr & Sys Sftwr
ITEC 2334 Info Systems Applications
ITEC 2336 Internet Applications Dev
ITEC 2348 Info Sys Appl Development
ITEC 3343 Info Sys Anal & Design
ITEC 3347 Principles of Info Mgt
ITEC 3355 Integrated Info Systems
ITEC 3365 Database Management
ITEC 4338 Dbase Admin & Implement
ITEC 4339 Enterprise Applications Dev
ITEC 4375 Project Mgmt and Practice

Approved Technical Electives (12 SH)

** ELET 2300-Intro to C++ Programming may be substituted for COSC 1304.

Total hours required: 121 semester hours

Approvals:

Student Signature Date

Advisor Date

Fall 2010

*Refer to class schedule for courses, which satisfy University requirements.

36 advanced hours required (3000-4000 level)
TSL requirements must be met (see advisor)

For graduation with HONORS, see Undergraduate Catalog
Computer Information Systems

Major

The Computer Information Systems major provides the foundation in computer science, mathematics, and management principles for a career in the computer industry or for further education. The major is designed to prepare students for careers in software engineering, system analysis and design, data base management, computer systems administration, and management information systems. Course work focuses on the development of systems for data processing, including computer instruction, programming, data bases and network communications. Students taking this major should be aware that their employment opportunities are not limited to the computer industry.
Computer Information Systems Major Requirements

Required Core Courses

- GEOG 2115 - Geographic Information Systems
- COMP 1104 - Introduction to Information Technology
- MATH 1082 - Precalculus
- MATH 2002 - Calculus
- MATH 2011 - Linear Algebra
- MATH 2012 - Calculus
- MATH 2013 - Calculus
- MATH 2014 - Calculus

Electives

- Electives in Information Technology
- Electives in Business Administration
- Electives in Computer Science

Program Requirements

Mathematics/Reasoning

- MATH 1082 - Precalculus
- MATH 2002 - Calculus
- MATH 2011 - Linear Algebra
- MATH 2012 - Calculus
- MATH 2013 - Calculus
- MATH 2014 - Calculus

Social and Behavioral Sciences

- PSYC 1011 - Introduction to Psychology
- PSYC 2011 - Statistics
- PSYC 2021 - Developmental Psychology
- PSYC 2031 - Personality

Writing in the Discipline

- ENGL 1011 - English Composition I
- ENGL 2011 - English Composition II

Technology Requirements

- COMP 1104 - Introduction to Information Technology
- COMP 2101 - Database Systems
- COMP 2102 - Computer Network Administration
- COMP 3101 - Computer Architecture

CIS Environment

- GIS 1001 - Geographic Information Systems
- GIS 2001 - Advanced Geographic Information Systems
- GIS 3001 - GIS and Urban Planning
- GIS 4001 - GIS and Environmental Science

Degree Requirements

- Bachelor of Science in Information Technology

Field Code Changed