

# Memo

APPROVED DEC 07 2010  
GA

**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

RECEIVED OCT 15 2010  
GM

**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 \_\_\_\_\_

INFORMATION & LOGISTICS DEPARTMENT  
BACHELOR OF SCIENCE  
PSID \_\_\_\_\_

## 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

## COMPUTER INFORMATION SYSTEMS

UNIVERSITY OF HOUSTON  
COLLEGE OF TECHNOLOGY  
NAME \_\_\_\_\_

INFORMATION & LOGISTICS DEPARTMENT  
BACHELOR OF SCIENCE  
UHID \_\_\_\_\_

### UNIVERSITY CORE REQUIREMENTS (42 SH)

<u>Communication (6 SH)</u>	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)

_____	_____	_____	_____
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### Visual/Performing Arts\* (3 SH)

_____	_____	_____	_____
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### Social/Behavioral Sciences (3 SH)

PSYC 1300 Intro Psychology	_____	_____	_____
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### 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	_____	_____	_____

\*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 (30 SH)

<u>CIS Environment (18 SH)</u>			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.

<u>CIS Core (39)</u>			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

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*Produced by the Office of the Senior Vice President for Academic Affairs*

# Computer Information Systems Major

The Computer Information Systems program provides the needs of a dynamic and integral part of business and industry—the information systems environment. The Computer Information Systems program consists of 121 hours of undergraduate academic credit. In addition to meeting the general liberal education core, students must complete the program's major requirements. Students must meet the major core requirements: C40: Entrepreneur, Technology and Applied Technical Electives. Students will obtain a background in business applications, computer concepts, problem solving, problem making, team relations, evaluation, analysis, and communication. Information Systems as a field is a broad spectrum of careers in the private and public sectors including the areas of end-user support, systems analysis, programmer, analyst, development, technology management, system analyst, training, and consulting.

Students wishing to change their major to Computer Information Systems must have a 2.0 grade point average for college-level work attempted.



