

# Memo

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**To:** Chair, University Undergraduate Council

**From:** Dr. Jerry Evans, Interim Chair of the Information and Logistics  
Technology Department

**CC:** Fred Lewallen, Associate Dean for Academic Affairs

**Date:** 10/11/2011

**Re:** Change of CIS Degree Plan to require ELET 2300 instead of COSC  
1304

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**Reason:** In recognition of the evolving nature of the Information Systems/Information Technology industry and the importance of object oriented programming to the developed skill sets of our CIS students as recommended by the CIS Advisory Board, the CIS faculty voted to require all CIS majors to take ELET 2300 (Introduction to C++ Programming) instead of COSC 1304 (C Programming).

**Impact of Change:** Change of Required course which will result in corresponding Pre-Requisites changes for other CIS courses.

Attached is the recommended revised Degree Plan for the CIS Degree Plan.

# Computer Information Systems Major

The Computer Information Systems program provides for 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 42 semester hour university core curriculum requirement, students must meet their major core requirements, CIS Environment, Technology and approved technical electives. Students will obtain a background in business applications, computer concepts, problem solving, decision making, human relations, evaluation, analysis, and communications. Information systems technologists can be found in a broad spectrum of careers in the private and public sectors including the areas of end-user support, telecommunications specialist, applications development, technology management, system analysis, training, and consulting.

Students wishing to change their major to Computer Information Systems must have a 2.5 grade point average for all college level work attempted.

All majors and minors in the Department of Information and Logistics Technology must earn a grade of **C** or better in all major/minor courses. No grade lower than **C** will be accepted on any courses applicable to the major transferred to the University of Houston.

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## Computer Information Systems Major Requirements

ELET 2300. C++ Programming

CIS 1301. Introduction to Computer Application Technology

CIS 2332. Information Technology Hardware and Systems Software

CIS 2334. Information Systems Applications

CIS 2336. Internet Application Development

CIS 2337. Fundamentals of Information Security

CIS 2348. Information Systems Application Development

CIS 3343. Information Systems Analysis and Design

CIS 3347. Principles of Information Management

CIS 3355. Integrated Information Systems

CIS 3365. Database Management

CIS 4338. Database Administration and Implementation

**CIS 4339.** Enterprise Applications Development

**CIS4375.** Project Management and Practice

Approved Technical electives: Twelve semester hours

(Major GPA is calculated on the major requirements and approved electives.)

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## Program Requirements

### **Mathematics/Reasoning**

(6 semester hours which includes university core)

**MATH 1330.** Precalculus

**MATH 1431.** Calculus

### **Social and Behavioral Sciences**

(3 semester hours which includes university core)

**PSYC 1300**

### **Writing in the Discipline**

(3 semester hours which includes university core)

**TELS 3363.** Technical Communications

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## Technology Requirements

**SCLT 2362.** Introduction to Logistics Technology

**TECH 3365.** Applied Discrete Methods in Technology

**TMTH 3360.** Applied Technical Statistics

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## CIS Environment

**ACCT 2331.** Accounting Principles I: Financial

**ECON 2301.** Global Economic Concepts

**TELS 3340.** Organizational Leadership and Supervision

**TELS 3363.** Technical Communications

**TELS 4341.** Production and Service Operations

**TELS 4342.** Quality Improvement Methods

**Degree Awarded:** Bachelor of Science

**Major:** Computer Information Systems

# 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	_____	_____	_____

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

<u>History/Government (12 SH)</u>			
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	_____	_____	_____

<u>Humanities* (3 SH)</u>			
_____	_____	_____	_____

<u>Visual/Performing Arts* (3 SH)</u>			
_____	_____	_____	_____

<u>Social/Behavioral Sciences (3 SH)</u>			
PSYC 1300 Intro Psychology	_____	_____	_____

<u>Math/Reasoning (7 SH)</u>			
MATH 1330 Precalculus	_____	_____	_____
MATH 1431 Calculus I	_____	_____	_____

<u>Natural Sciences* (6 SH)</u>			
_____	_____	_____	_____
_____	_____	_____	_____

<u>Other Requirements (9 SH)</u>			
SCLT 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

<u>CIS Environment</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

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

<u>CIS Core</u>			GR	SH	AH
ELET	2300	Intro to C++ Programming	_____	_____	_____
ITEC	1301	Computer Appl in Tech	_____	_____	_____
CIS	2332	Info Tech Hdw & Sys Sltwr	_____	_____	_____
CIS	2334	Info Systems Applications	_____	_____	_____
CIS	2336	Internet Applications Dev	_____	_____	_____
CIS	2337	Fundamentals of Info Security	_____	_____	_____
CIS	2348	Info Sys Appl Development	_____	_____	_____
CIS	3343	Info Sys Anal & Design	_____	_____	_____
CIS	3347	IS Infrastructure & Networks	_____	_____	_____
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)

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

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)

### 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	_____	_____	_____

### Natural Sciences\* (6 SH)

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### Other Requirements (9 SH)

SCLT	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)

### 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 (42) GR SH AH

COSC	1304	C Language Program**	_____	_____	_____
ITEC	1301	Computer Appl in Tech	_____	_____	_____
CIS	2332	Info Tech Hdw & Sys Sftwr	_____	_____	_____
CIS	2334	Info Systems Applications	_____	_____	_____
CIS	2336	Internet Applications Dev	_____	_____	_____
CIS	2337	Fundamentals of 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)

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\_\_\_\_\_

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\_\_\_\_\_

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

Total hours required: 121 semester hours

## APPROVALS:

\_\_\_\_\_  
 Student Signature Date

\_\_\_\_\_  
 Advisor Date