


UC 8679 OSF
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Curriculum Proposal

RECEIVED OCT 14 2005

APPROVED NOV 16 2005

Date: 10/15/2005
To: University of Houston Undergraduate Council
From: Dr. Michael L. Gibson, Interim Chair of ILT 
RE: ISTE Curricula Changes

Dear Committee Members:

During the past few months, the Information Systems Technology (ISTE) faculty worked through revisions to the ISTE undergraduate curricula. On Friday, September 16, the ILT faculty met to review the proposed curricula changes. Upon reviewing the proposed changes, the ILT voted to submit those changes to the College of Technology (CoT) Undergraduate Academic Committee (UAC). The College of Technology Undergraduate Academic Committee approved those changes on 10/4/05. This document describes the changes being proposed. Those curriculum revisions focus on a number of issues:

1. Functional validation of prerequisite requirements with multiple paths provided through the ISTE curricula to provide more flexibility for students.
2. Preparing a revised ISTE curriculum in preparation for seeking ABET accreditation.
 - a. Increasing the math requirements to match ABET requirements for Information Systems curricula.
 - b. Inserting fundamental business requirements as required by ABET.
 - c. Mapping ISTE Core Requirement courses to recognized IS 2002 model curriculum.
3. Stream-lining Major core requirements to provide a pathway to develop 4-5 course tracks to use in distinguishing the degree (away from commodity IS/IT).

The packet of material accompanying this letter represents the accumulation of documents that the ILT faculty members wish to submit to the Undergraduate Council. This material includes:

1. Existing ISTE Degree Plan.
2. Revised ISTE Degree Plan. (submitted for committee consideration).
3. CBM forms to change/create courses to match the new curriculum plan.

INFORMATION SYSTEMS TECHNOLOGY (ISTE)

Current

UNIVERSITY OF HOUSTON
COLLEGE OF TECHNOLOGY

INFORMATION & LOGISTICS DEPARTMENT
BACHELOR OF SCIENCE

NAME _____ UHID _____

UNIVERSITY CORE REQUIREMENTS (42 SH)

	GR	SH	AH
<u>Communication (6 SH)</u>			
ENGL 1303 English Composition I	_____	_____	_____
ENGL 1304 English Composition II	_____	_____	_____
<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	_____	_____	_____

Humanities* (3 SH)

Visual/Performing Arts* (3 SH)

Social/Behavioral Sciences (3 SH)

PSYC 1300 Intro Psychology	_____	_____	_____
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Social/Behavioral Sciences, Writing Intensive (3 SH)

PSYC 3310 Industrial Org Psychology	_____	_____	_____
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Math/Reasoning (6 SH)

MATH 1310 College Algebra or TMTH 1335	_____	_____	_____
MATH 1314 Elements of Mathematics or TMTH 2335 Adv Technical Math	_____	_____	_____

Natural Sciences* (6 SH)

_____	_____	_____	_____
_____	_____	_____	_____

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

TSI requirements must be met (see advisor)

For graduation with HONORS, see Undergraduate Catalog

36 advanced hours required (3000-4000 level)

Total hours required: 123 semester hours

COLLEGE AND DEPARTMENT REQUIREMENTS (27 SH)

	GR	SH	AH
COMM 3356 Business & Prof Comm	_____	_____	_____
ECON 2301 Economic Concepts & Issues	_____	_____	_____
LOGT 2362 Intro to Logistics Technology	_____	_____	_____
LOGT 4380 Quality Systems	_____	_____	_____
TELS 3340 Org Leadership & Sprvs	_____	_____	_____
TELS 3363 Industrial Communication	_____	_____	_____
TELS 4341 Production & Service Ops	_____	_____	_____
MATH 1313 Finite Math w/ Applications	_____	_____	_____
TMTH 3360 Applied Tech Statistics	_____	_____	_____

MAJOR CORE REQUIREMENTS (48 SH)

Must receive a "C" or better in major core courses

	GR	SH	AH
ITEC 1300 Computers in Technology	_____	_____	_____
ITEC 1301 Computer Appl in Technology	_____	_____	_____
ITEC 2332 Intro to Client/Server Tech	_____	_____	_____
ITEC 2334 Info Systems Applications	_____	_____	_____
ITEC 2336 Internet Applications Dev	_____	_____	_____
ITEC 2338 Technology in the Community	_____	_____	_____
ITEC 3347 Principles of Info Mgt	_____	_____	_____
ITEC 3343 Info Sys Anal & Design	_____	_____	_____
ITEC 3348 Expert Systems	_____	_____	_____
ITEC 3365 Database Management	_____	_____	_____
ITEC 3368 Adv. Internet Appls Dev	_____	_____	_____
ITEC 4335 Integrated Info Systems	_____	_____	_____
ITEC 4337 Adv Info Sys Application	_____	_____	_____
ITEC 4338 Database Design & Implement	_____	_____	_____
ITEC 4339 Enterprise Applications Dev	_____	_____	_____
ITEC 4375 Practicum in IST OR	_____	_____	_____
ITEC 4396 Internship: Occupational Technology	_____	_____	_____

Approved Technical Electives (6 SH)

_____	_____	_____	_____
_____	_____	_____	_____

APPROVALS:

Student Signature Date

Advisor Date

Department Chair Date

PROPOSED INFORMATION SYSTEMS TECHNOLOGY (ISTE)

Proposed

UNIVERSITY OF HOUSTON
COLLEGE OF TECHNOLOGY

INFORMATION & LOGISTICS DEPARTMENT
BACHELOR OF SCIENCE

NAME _____ UHID _____

UNIVERSITY CORE REQUIREMENTS (42 SH)

	GR	SH	AH
Communication (9 SH)			
ENGL 1303 English Composition I	_____	_____	_____
ENGL 1304 English Composition II	_____	_____	_____
PSYC 3310 Industrial Org Psychology	_____	_____	_____
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)			
_____	_____	_____	_____
_____	_____	_____	_____

COLLEGE AND DEPARTMENT REQUIREMENTS (30 SH)

	GR	SH	AH
TELS 3363 Technical Communication	_____	_____	_____
ECON 2301 Economic Concepts & Issues	_____	_____	_____
ACCT 2331 Acct Principles I: Financial	_____	_____	_____
LOGT 2362 Intro to Logistics Technology	_____	_____	_____
LOGT 4380 Quality Systems	_____	_____	_____
TELS 3340 Org Leadership & Sprvs	_____	_____	_____
TELS 4341 Production & Service Ops	_____	_____	_____
TECH 3365 Appl Discrete Mthd in Tech	_____	_____	_____
MATH 1330 Precalculus	_____	_____	_____
TMTH 3360 Applied Tech Statistics	_____	_____	_____

MAJOR CORE REQUIREMENTS (39 SH)

Must receive a "C" or better in major core courses

	GR	SH	AH
COSC 1304 C Language Programming	_____	_____	_____
ITEC 1301 Computer Appl in Technology	_____	_____	_____
ITEC 2332 Info Tech Hdwr and 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 Database Admin & Implement	_____	_____	_____
ITEC 4339 Enterprise Applications Dev	_____	_____	_____
ITEC 4375 Project Mgmt and Practice	_____	_____	_____

Approved Technical Electives (12 SH)

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

APPROVALS:

Student Signature Date

Advisor Date

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

TSI requirements must be met (see advisor)

For graduation with HONORS, see Undergraduate Catalog

36 advanced hours required (3000-4000 level)

Total hours required: 124 semester hours

New Catalog Listing

Information Systems Technology (ISTE)

- Major Requirements
- College and Department Requirements
- University Core Curriculum

The Information Systems Technology program provides for the needs of a dynamic and integral part of business and industry--the information systems environment. 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, systems analysis, training, and consulting.

Requirements: Information Systems ^{Technology} Major

COSC 1304. C Programming

ITEC 1301. Introduction to Computer Application Technology

ITEC 2332. IT Hardware and Systems Software

ITEC 2334. Information Systems Applications

ITEC 2336. Internet Application Development

ITEC 2348. Information Systems Application Development

ITEC 3343. Information Systems Analysis and Design

ITEC 3347. Principles of Information Management

ITEC 3365. Database Management

ITEC 3355. Integrated Information Systems

ITEC 4338. Database Administration and Implementation

ITEC 4339. Enterprise Applications Development

ITEC 4375. Project Management and Practice

Approved Technical electives: Twelve semester hours

College and Department Requirements

ACCT 2331. Accounting Principles I: Financial

ECON 2301. Economic Concepts & Issues

LOGT 2362. Introduction to Logistics Technology

LOGT 4380. Quality Systems

TELS 3340. Organizational Leadership and Supervision

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TELS 3363. Technical Communications
TELS 4341. Production and Service Operations
MATH ~~1330.~~ Precalculus *1431 Calculus I*
TECH 3365. Applied Discrete Methods in Technology
TMTH 3360. Applied Technical Statistics

University Core Curriculum

Communication (9 semester hours)

Nine semester hours (three must be writing intensive experiences in the discipline) selected from core approved list

ENGL 1303, 1304. English Composition I, II
PSYC 3310 Industrial-Organization Psychology

History (6 semester hours)

HIST 1376 or 1377, 1378 or 1379 *1378, 1379 del*

American Government (6 semester hours)

POLS 1336 and 1337

Social and Behavioral Sciences (3 semester hours)

(PSYC 1300,

Humanities (3 semester hours)

Three semester hours selected from core approved list

Visual/Performing Arts (3 semester hours)

Three semester hours selected from core approved list

Mathematics/Reasoning (6 semester hours)

MATH 1310. College Algebra

MATH ~~1431~~ Calculus I
1330 Precalculus

Can specify which core courses?

Natural Sciences

(6 semester hours)

Six semester hours from core approved list

Degree Awarded: Bachelor of Science
Major: Information Systems Technology

JANUARY 2012