Curriculum Proposal

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)

**UNIVERSITY OF HOUSTON**  
**COLLEGE OF TECHNOLOGY**

**BACHELOR OF SCIENCE**

**NAME**

**UHID**

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## UNIVERSITY CORE REQUIREMENTS (42 SH)

<table>
<thead>
<tr>
<th>Course</th>
<th>GR</th>
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<tbody>
<tr>
<td>Communication (6 SH)</td>
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<tr>
<td>Humanities* (3 SH)</td>
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<td>Visual/Performing Arts* (3 SH)</td>
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## Social/Behavioral Sciences (3 SH)

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<th>Course</th>
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<tbody>
<tr>
<td>PSYC 1300 Intro Psychology</td>
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## Social/Behavioral Sciences, Writing Intensive (3 SH)

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<td>PSYC 3310 Industrial Org Psychology</td>
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## Math/Reasoning (6 SH)

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<tbody>
<tr>
<td>MATH 1310 College Algebra or TMTH 1335</td>
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<tr>
<td>MATH 1314 Elements of Mathematics or TMTH 2335 Adv Technical Math</td>
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## Natural Sciences* (6 SH)

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<th>Course</th>
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*Refer to class schedule for courses, which satisfy University requirements.

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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

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## COLLEGE AND DEPARTMENT REQUIREMENTS (27 SH)

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<th>Course</th>
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<td>ECON 2301 Economic Concepts &amp; Issues</td>
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<td>LOGT 2362 Intro to Logistics Technology</td>
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<td>LOGT 4380 Quality Systems</td>
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<td>TELS 3340 Org Leadership &amp; Sprvs</td>
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<td>TELS 3363 Industrial Communication</td>
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<td>TELS 4341 Production &amp; Service Ops</td>
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<tr>
<td>MATH 1313 Finite Math w/ Applications</td>
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<tr>
<td>TMTH 3360 Applied Tech Statistics</td>
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## MAJOR CORE REQUIREMENTS (48 SH)

Must receive a “C” or better in major core courses

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<td>ITEC 1301 Computer Appl in Technology</td>
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<td>ITEC 2334 Info Systems Applications</td>
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<td>ITEC 3347 Principles of Info Mgt</td>
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<td>ITEC 3348 Expert Systems</td>
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<td>ITEC 3365 Database Management</td>
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<td>ITEC 3368 Adv. Internet Apps Dev</td>
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<td>ITEC 4335 Integrated Info Systems</td>
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<td>ITEC 4337 Adv Info Sys Application</td>
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<td>ITEC 4338 Database Design &amp; Implement</td>
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<tr>
<td>ITEC 4375 Practicum in IST QR</td>
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<tr>
<td>ITEC 4396 Internship: Occupational Technology</td>
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## Approved Technical Electives (6 SH)

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**APPROVALS:**

<table>
<thead>
<tr>
<th>Student Signature</th>
<th>Date</th>
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<tbody>
<tr>
<td>Advisor</td>
<td>Date</td>
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<td>Department Chair</td>
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*Fall 2005*
### UNIVERSITY CORE REQUIREMENTS (42 SH)

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### COLLEGE AND DEPARTMENT REQUIREMENTS (30 SH)

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

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<tr>
<td>COSC 1304 C Language Programming</td>
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<td>ITEC 1301 Computer Appl in Technology</td>
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<tr>
<td>ITEC 4375 Project Mgmt and Practice</td>
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### Approved Technical Electives (12 SH)

36 advanced hours required (3000-4000 level)

Total hours required: 124 semester hours

### APPROVALS:

Student Signature: [Signature]
Date: [Date]

Advisor: [Signature]
Date: [Date]

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Fall 2006
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 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
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

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 1351. Calculus I
MATH 1431. Pre-calculus

Natural Sciences
(6 semester hours)
Six semester hours from core approved list

Degree Awarded: Bachelor of Science
Major: Information Systems Technology