Memorandum

To: Vernelle Lakatani, Registrar
From: Max L. Checketts, Vice President for Academics
Date: May 14, 2009
Subject: Curriculum Proposals

The following proposals were approved by the Academic Council:
- 09-31 IS430 (Christopher Slade)
- 09-32 IT440 (Christopher Slade)

MLC:ill
Cc: Clayton Hubner, Dean, College of Business, Computing & Government
    Chad Compton, Associate Academic Vice President for Instruction
    Don Colton, Associate Dean, College of Business, Computing & Government
    Doug Bates, Chair, Curriculum Committee
## BYU Hawai‘i Curriculum Proposal
### Section 3

#### Approvals

**Name of Proposal:** IT440  
**Submitted by:** (Type) Christopher Slade  
**Date:** April 10, 2009  
**Signature:**

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Date</th>
<th>Recommendation/Signature</th>
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<tbody>
<tr>
<td>1. Approved by faculty in the department. (signed by Department Chair)</td>
<td></td>
<td>Signature: John Doe</td>
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<td></td>
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<td>Type name: James D. Lee</td>
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<td>2. Approved by College or School (signed by all affected Deans)</td>
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<td>Signature:</td>
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<td></td>
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<td>Type name: Clayton Heim</td>
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<td>3. Reviewed by LAS when the proposal is for a new course (course outline</td>
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<td>Signature: N/A</td>
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<td>attached), new program, or when additional resources are requested.</td>
<td></td>
<td>Type name: Douglas Bates</td>
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<td>4. Approved by General Education and Honors Committee (when appropriate)</td>
<td></td>
<td>Signature: N/A</td>
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<tr>
<td>(signed by the GEH Committee Chair)</td>
<td></td>
<td>Type name: Beth Haynes</td>
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<td>5. Approved by CC (signed by CC chair)</td>
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<td>Signature:</td>
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<td>Type name: Douglas Bates</td>
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<td>6. Approved by APC (signed by Academic Vice President)</td>
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<td>Signature:</td>
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<td>Type name: Max Checketts</td>
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<td>7. For new programs—Approved by the President’s Council</td>
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<td>Signature:</td>
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<tr>
<td>(signed by the President)</td>
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<td>Type name: Steven Wheelwright</td>
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</table>
Proposal Number 09-32 (Office use)

BYU Hawai‘i Curriculum Proposal
Section 1

Proposal Description (Balance Sheet)

Provide statement which describes the nature of this proposal, the before and after effects of this proposal, including the affected program outline, the credit totals for the program and the individual courses, as well as the prerequisites and courses from other departments which may be affected by this proposal.

New course proposals must have a course outline attached.

This statement should also discuss:

- Rationale for this change based upon evidence gathered within the department or school/college including annual assessment plans, self-study, department review, outcomes matrix, multi-year plan or other pertinent assessment documents.

- The ongoing significant curriculum or program changes which could develop in the next five years when this proposal is implemented.

- The specific assessment data or evidence that was used through the annual assessment plan or program review that supports this proposal.

This proposal changes the prerequisites of IT440 to eliminate the CIS201 requirement. This change is being made because of the following two reasons:

- CIS201 is no longer offered.
- The material covered in the other prerequisites (mainly CIS305) sufficiently prepares the students to take this course.
BYU Hawai'i Curriculum Proposal
Section 2

Catalog Detail (for each affected course)

Requested Effective Date (MMM DD YY): Apr. 30, 09

NATURE OF THE CHANGE: Put an X before the appropriate selections below.

[ ] New Course (attach course outline)  [ ] New Course Number (specify old number below)  [ ] Grading to/from P/NP

[ ] New Course Title  [ ] Credit Hours  [ X ] Prerequisite

[ ] New Course Description  [ ] Class Fees  [ ] Other - specify

Department: CIS  Course Number: IT440

Credit Hours: (Lecture + Lab)

Full Course Title: (for the catalog)

Abbreviated Course Title: (for transcripts, maximum of 16 characters)

New Course Description: (for the catalog, maximum of 25 Words)

440. Foundations of Human-Computer Interaction (3) (W) Human-Computer Interaction Foundations: including evaluation, design, implementation. CIS 405 and a psychology course in human information processing are recommended. (Prerequisites: CIS 305, IS 400, IT 240, Math 221.)

Semester(s) Offered: Fall _ Winter _ Spring _ Summer _ First _
Years Offered: Every Year _ Even Years _ Odd Years _
Class Size: Optimum _ Minimum _ Maximum _

If this is a new course number, what was the old number, and should the old and new courses be treated as identical for purposes of retakes and graduation requirements?

Note: New courses should be given course numbers that have not been used for three years. This rule also applies to the renumbering of courses.

Attaches copies of each of the related web pages from the online catalog and indicate where changes should be made.
440. Foundations of Human-Computer Interaction (3) (W) Human-Computer Interaction Foundations: including evaluation, design, implementation. CIS 405 and a psychology course in human information processing are recommended. (Prerequisites: CIS 201, CIS 305, IS 400, IT 240, Math 221.)

480. Computer Network Design (3) (F, W) Networking of computers and configuration of managed networking equipment including switches and routers, with special emphasis on Cisco equipment and protocols. (Prerequisite: IT 280. Corequisite: IT 480L.)

480L. Computer Network Design Lab (0) (F, W) Required with IT 480, hands-on experience. (Corequisite: IT 480.)

481. Information Assurance and Security (3) (F) Introduction to information security providing a foundation of computer security concepts, including general security, communication security, infrastructure security, basics of cryptography, and operational and organizational security. (Prerequisite: IT 280/L.)

482. Advanced Topics in Information Assurance & Security (3) (W) Advanced topics in information assurance: systems verification, information flow/protection, computer viruses/malware, intrusion detection models, multi-level security, forensics, network firewalls, cryptography, e-commerce support, and database security. (Prerequisite: IT 481.)

491-492-493. Seminar (1-1-1) (F, W, Sp, Su) Readings in the Information Technology Science literature, writing of review articles, research proposal writing and presentation, conducting research, poster presentation, writing and presentation of the senior thesis. (Prerequisites: instructor consent.)

495R. Independent Study in Information Technology (1-3) (Variable) Topic and credit to be arranged between the student and the instructor. (Prerequisite: instructor consent.)

496R. Student Research in Information Technology (1-3) (Variable) Supervised individual research for students who have been granted a student research and development assistantship. (Required of all research associates.)