

# Assessment Plan

## Western Michigan University

### Business Information Systems

**Mission Statement:** Prepare students to work in informed and electronic businesses in today's globalized economy driven by knowledge workers using information infrastructure

**Outcome: College Level Writing Proficiency**

Students will demonstrate effective writing competency: an ability to think critically and reflectively about written material, an awareness of the process of composition, the ability to organize a written document with attention to problem, purpose, audience, style and the conventions of standard English.

**Track:** Business Communication

**Start Date:** 11/23/2005

**End Date:** 12/23/2005

**Outcome Status:** Complete

**Assessment Evaluation:** Assessing BCM 1420 Outcomes: Program faculty will review analytical writing assignments embedded in existing course syllabi. Program faculty will evaluate fifty student analytical compositions using criteria drawn from General Education writing standards, BCM 1420 standardized course objectives, and BBA Program objectives related to writing. The assessment will occur every other fall semester, beginning 2005, with results available in ample time to make use of findings for the following academic years.

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Rating Scale for Assessment Rubric	Strong analytical compositions are excellent in meeting overall criteria or may exhibit a few minor weaknesses; Adequate papers are acceptable overall but may exhibit noticeable weaknesses in two or more areas; Weak compositions are unacceptable and do not meet most criteria. See document link for criteria descriptions.		Yes
Rubric Criteria/ Used to judge papers as Strong, Adequate or Weak.	Criteria for Assessment Reflects understanding of communication problem. Purpose contextualized to reflect problem. Organization reflects purpose and audience Ideas and arguments support development of purpose Style is appropriate for purpose and audience Conventions of English used regularly		Yes

**Related Courses**

\* BCM 1420 - Informational Writing

**Outcome: Learning Outcome 01**

Apply recently-developed IT technologies in support of business operations.

**Track:** Computer Information Systems

**Start Date:** 04/15/2004

**End Date:** 12/31/2006

**Outcome Status:** Complete

**Assessment Evaluation:** The department uses several instruments to assess learning outcomes. The CIS program and the three majors (CIS, eBizD and TIM) under the CIS program are reviewed by the CIS faculty annually at the annual retreat.

Reviews may take place more frequently at the discretion of the faculty and when required by external accreditation.

Means of Assessment			
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Instrument B: Alumni Satisfaction Evaluation. The survey instrument consists of 8 questions.	The overall mean value from the alumni survey need to be greater than 3.5.	Once per year	Yes
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Instrument D: Advisory Council Evaluation. The survey instrument consists of 5 questions.	The overall mean value from the advisory council survey need to be greater than 3.5.	Once per year.	Yes
Instrument E: IT Forum Evaluation The instrument consists of 5 questions.	The overall mean value from the IT Forum survey need to be greater than 3.5.	Once per year.	Yes

### Related Courses

- \* CIS 2600 - Business Programming A
- \* CIS 2610 - Business Programming B
- \* CIS 2800 - Internet Programming
- \* CIS 3260 - LAN Administration
- \* CIS 3600 - Systems Analysis and Design
- \* CIS 3660 - Computer Networking
- \* CIS 3900 - Business Web Architecture
- \* CIS 4600 - Business Database Applications
- \* CIS 4640 - Knowledge Management
- \* CIS 4900 - e-Commerce Development
- \* CIS 4990 - Enterprise Project
- \* CIS 5550 - CIS Special Topics

### Outcome: Learning Outcome 02

Ability in using information technology in automating business processes.

**Track:** Computer Information Systems

**Start Date:** 04/15/2004

**End Date:** 12/31/2006

**Outcome Status:** Complete

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- \* CIS 4640 - Knowledge Management
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- \* CIS 4990 - Enterprise Project
- \* CIS 5550 - CIS Special Topics

### Outcome: Learning Outcome 03

Understand general business functional needs that are to be integrated by information technologies.

**Track:** Computer Information Systems

**Start Date:** 04/15/2004

**End Date:** 12/31/2006

**Outcome Status:** Complete

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- \* CIS 4640 - Knowledge Management
- \* CIS 4900 - e-Commerce Development
- \* CIS 4990 - Enterprise Project
- \* CIS 5550 - CIS Special Topics

#### Outcome: Learning Outcome 04

Ability in exploring new computerized solution to meet the markets changing needs.

**Track:** Computer Information Systems

**Start Date:** 04/15/2004

**End Date:** 12/31/2006

**Outcome Status:** Complete

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### Related Courses

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- \* CIS 3660 - Computer Networking
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- \* CIS 4600 - Business Database Applications
- \* CIS 4640 - Knowledge Management
- \* CIS 4900 - e-Commerce Development
- \* CIS 4990 - Enterprise Project
- \* CIS 5550 - CIS Special Topics

### Outcome: Learning Outcome 05

Demonstrate integrated business knowledge with proper use of Information technologies for problem solving.

**Track:** Computer Information Systems

**Start Date:** 04/15/2004

**End Date:** 12/31/2006

**Outcome Status:** Complete

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Instrument E: IT Forum Evaluation The instrument consists of 5 questions.	The overall mean value from the IT Forum survey need to be greater than 3.5.	Once per year.	Yes

### Related Courses

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- \* CIS 3260 - LAN Administration
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- \* CIS 3660 - Computer Networking
- \* CIS 3900 - Business Web Architecture
- \* CIS 4600 - Business Database Applications
- \* CIS 4640 - Knowledge Management
- \* CIS 4900 - e-Commerce Development
- \* CIS 4990 - Enterprise Project
- \* CIS 5550 - CIS Special Topics

### Outcome: Learning Outcome 06

Ability in communicating with non-IT users and using IT for productivity/effectiveness improvements.

**Track:** Computer Information Systems

**Start Date:** 04/15/2004

**End Date:** 12/31/2006

**Outcome Status:** Complete

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### Related Courses

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- \* CIS 4900 - e-Commerce Development
- \* CIS 4990 - Enterprise Project
- \* CIS 5550 - CIS Special Topics

### Outcome: Learning Outcome 07

Understand logical reasoning and program structures.

**Track:** Computer Information Systems

**Start Date:** 04/15/2004

**End Date:** 12/31/2006

**Outcome Status:** Complete

**Assessment Evaluation:** The department uses several instruments to assess learning outcomes. The CIS program and the three majors (CIS, eBizD and TIM) under the CIS program are reviewed by the CIS faculty annually at the annual retreat. Reviews may take place more frequently at the discretion of the faculty and when required by external accreditation.

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#### Related Courses

- \* CIS 2600 - Business Programming A
- \* CIS 2610 - Business Programming B

#### Outcome: Learning Outcome 08

Writing computer programs using current business programming languages (Visual Basic).

**Track:** Computer Information Systems

**Start Date:** 04/15/2004

**End Date:** 12/31/2006

**Outcome Status:** Complete

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Instrument E: IT Forum Evaluation The instrument consists of 5 questions.	The overall mean value from the IT Forum survey need to be greater than 3.5.	Once per year	Yes

### Related Courses

- \* CIS 2600 - Business Programming A
- \* CIS 2610 - Business Programming B

### Outcome: Learning Outcome 09

Ability in developing and implementing Internet applications.

**Track:** Computer Information Systems

**Start Date:** 04/15/2004

**End Date:** 12/31/2006

**Outcome Status:** Complete

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### Related Courses

- \* CIS 2800 - Internet Programming

**Outcome: Learning Outcome 10**

Understand the role of Internet applications in E-business.

**Track:** Computer Information Systems

**Start Date:** 04/15/2004

**End Date:** 12/31/2006

**Outcome Status:** Complete

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**Related Courses**

\* CIS 2800 - Internet Programming

**Outcome: Learning Outcome 11**

Understand network essentials and the functionality of LANs in support of information system applications.

**Track:** Computer Information Systems

**Start Date:** 04/15/2004

**End Date:** 12/31/2006

**Outcome Status:** Complete

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### Related Courses

\* CIS 3260 - LAN Administration

### Outcome: Learning Outcome 12

Ability in planning, design, and administering LANs and managing security issues of LANs.

**Track:** Computer Information Systems

**Start Date:** 04/15/2004

**End Date:** 12/31/2006

**Outcome Status:** Complete

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Instrument E: IT Forum Evaluation	The overall mean value from the IT Forum survey need to be greater than 3.5.	Once per year	Yes

### Related Courses

\* CIS 3260 - LAN Administration

### Outcome: Learning Outcome 13

Understand how information systems are developed in support of business processes and needs.

**Track:** Computer Information Systems

**Start Date:** 04/15/2004

**End Date:** 12/31/2006

**Outcome Status:** Complete

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### Related Courses

\* CIS 3600 - Systems Analysis and Design

### Outcome: Learning Outcome 14

Apply major design methodologies and graphic modeling tools for information systems processing.

**Track:** Computer Information Systems

**Start Date:** 04/15/2004

**End Date:** 12/31/2006

**Outcome Status:** Complete

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Means of Assessment			
Assessment Method	Criterion	Schedule	Active

### Related Courses

\* CIS 3600 - Systems Analysis and Design

### Outcome: Learning Outcome 15

Understand large scale network planning and their functions in business information systems.

**Track:** Computer Information Systems

**Start Date:** 04/15/2004

**End Date:** 12/31/2006

**Outcome Status:** Complete

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### Related Courses

\* CIS 3660 - Computer Networking

**Outcome: Learning Outcome 16**

Ability in designing network architecture and various network deployment strategies.

**Track:** Computer Information Systems

**Start Date:** 04/15/2004

**End Date:** 12/31/2006

**Outcome Status:** Complete

**Assessment Evaluation:** The department uses several instruments to assess learning outcomes. The CIS program and the three majors (CIS, eBizD and TIM) under the CIS program are reviewed by the CIS faculty annually at the annual retreat. Reviews may take place more frequently at the discretion of the faculty and when required by external accreditation.

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Instrument A: Student learning outcome survey. Students taking CIS major courses are surveyed two times in each regular semester. One survey is administered at the beginning of the semester, and another one at the end of the semester.	There needs to be enough difference in mean values between the two surveys for the question(s) relating to this outcome.	Each semester the course is offered.	Yes
Instrument B: Alumni Satisfaction Evaluation. The survey instrument consists of 8 questions.	The overall mean value from the alumni survey need to be greater than 3.5.	Once per year	Yes
Instrument C: Employer Satisfaction Survey. The survey instrument consists of 6 questions.	The overall mean value from the employer survey need to be greater than 3.5.	Once per year	Yes
Instrument D: Advisory Council Evaluation. The survey instrument consists of 5 questions.	The overall mean value from the advisory council survey need to be greater than 3.5.	Once per year	Yes
Instrument E: IT Forum Evaluation. The instrument consists of 5 questions.	The overall mean value from the IT Forum survey need to be greater than 3.5.	Once per year	Yes

**Related Courses**

\* CIS 3660 - Computer Networking

**Outcome: Learning Outcome 17**

Understand how to develop and implement effective websites to support E-business.

**Track:** Computer Information Systems

**Start Date:** 04/15/2004

**End Date:** 12/31/2006

**Outcome Status:** Complete

**Assessment Evaluation:** The department uses several instruments to assess learning outcomes. The CIS program and the three majors (CIS, eBizD and TIM) under the CIS program are reviewed by the CIS faculty annually at the annual retreat. Reviews may take place more frequently at the discretion of the faculty and when required by external accreditation.

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Instrument A: Student learning outcome survey. Students taking CIS major courses are surveyed two times in each regular semester. One survey is administered at the beginning of the semester, and another one at the end of the semester.	There needs to be enough difference in mean values between the two surveys for the question(s) relating to this outcome.	Each semester the course is offered.	Yes
Instrument B: Alumni Satisfaction Evaluation. The survey instrument consists of 8 questions.	The overall mean value from the alumni survey need to be greater than 3.5.	Once per year	Yes
Instrument C: Employer Satisfaction Survey. The survey instrument consists of 6 questions.	The overall mean value from the employer survey need to be greater than 3.5.	Once per year	Yes
Instrument D: Advisory Council Evaluation. The survey instrument consists of 5 questions.	The overall mean value from the advisory council survey need to be greater than 3.5.	Once per year	Yes
Instrument E: IT Forum Evaluation The instrument consists of 5 questions.	The overall mean value from the IT Forum survey need to be greater than 3.5.	Once per year	Yes

### Related Courses

\* CIS 3900 - Business Web Architecture

### Outcome: Learning Outcome 18

Apply human computer interaction theories to support information systems management.

**Track:** Computer Information Systems

**Start Date:** 04/15/2004

**End Date:** 12/31/2006

**Outcome Status:** Complete

**Assessment Evaluation:** The department uses several instruments to assess learning outcomes. The CIS program and the three majors (CIS, eBizD and TIM) under the CIS program are reviewed by the CIS faculty annually at the annual retreat. Reviews may take place more frequently at the discretion of the faculty and when required by external accreditation.

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Instrument A: Student learning outcome survey. Students taking CIS major courses are surveyed two times in each regular semester. One survey is administered at the beginning of the semester, and another one at the end of the semester.	There needs to be enough difference in mean values between the two surveys for the question(s) relating to this outcome.	Each semester the course is offered.	Yes

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Instrument B: Alumni Satisfaction Evaluation. The survey instrument consists of 8 questions.	The overall mean value from the alumni survey need to be greater than 3.5.	Once per year	Yes
Instrument C: Employer Satisfaction Survey. The survey instrument consists of 6 questions.	The overall mean value from the employer survey need to be greater than 3.5.	Once per year	Yes
Instrument D: Advisory Council Evaluation. The survey instrument consists of 5 questions.	The overall mean value from the advisory council survey need to be greater than 3.5.	Once per year	Yes
Instrument E: IT Forum Evaluation The instrument consists of 5 questions.	The overall mean value from the IT Forum survey need to be greater than 3.5.	Once per year	Yes

### Related Courses

\* CIS 3900 - Business Web Architecture

### Outcome: Learning Outcome 19

Ability in designing/developing/implementing databases over a client/server platform.

**Track:** Computer Information Systems

**Start Date:** 04/15/2004

**End Date:** 12/31/2006

**Outcome Status:** Complete

**Assessment Evaluation:** The department uses several instruments to assess learning outcomes. The CIS program and the three majors (CIS, eBizD and TIM) under the CIS program are reviewed by the CIS faculty annually at the annual retreat. Reviews may take place more frequently at the discretion of the faculty and when required by external accreditation.

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Instrument A: Student learning outcome survey. Students taking CIS major courses are surveyed two times in each regular semester. One survey is administered at the beginning of the semester, and another one at the end of the semester.	There needs to be enough difference in mean values between the two surveys for the question(s) relating to this outcome.	Each semester the course is offered.	Yes
Instrument B: Alumni Satisfaction Evaluation. The survey instrument consists of 8 questions.	The overall mean value from the alumni survey need to be greater than 3.5.	Once per year	Yes
Instrument C: Employer Satisfaction Survey. The survey instrument consists of 6 questions.	The overall mean value from the employer survey need to be greater than 3.5.	Once per year	Yes

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Instrument D: Advisory Council Evaluation. The survey instrument consists of 5 questions.	The overall mean value from the advisory council survey need to be greater than 3.5.	Once per year	Yes
Instrument E: IT Forum Evaluation The instrument consists of 5 questions.	The overall mean value from the IT Forum survey need to be greater than 3.5.	Once per year	Yes

### Related Courses

\* CIS 4600 - Business Database Applications

### Outcome: Learning Outcome 20

Apply knowledge in developing front-end interface for remote database processing.

**Track:** Computer Information Systems

**Start Date:** 04/15/2004

**End Date:** 12/31/2006

**Outcome Status:** Complete

**Assessment Evaluation:** The department uses several instruments to assess learning outcomes. The CIS program and the three majors (CIS, eBizD and TIM) under the CIS program are reviewed by the CIS faculty annually at the annual retreat. Reviews may take place more frequently at the discretion of the faculty and when required by external accreditation.

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Instrument A: Student learning outcome survey. Students taking CIS major courses are surveyed two times in each regular semester. One survey is administered at the beginning of the semester, and another one at the end of the semester.	There needs to be enough difference in mean values between the two surveys for the question(s) relating to this outcome.	Each semester the course is offered.	Yes
Instrument B: Alumni Satisfaction Evaluation. The survey instrument consists of 8 questions.	The overall mean value from the alumni survey need to be greater than 3.5.	Once per year	Yes
Instrument C: Employer Satisfaction Survey. The survey instrument consists of 6 questions.	The overall mean value from the employer survey need to be greater than 3.5.	Once per year	Yes

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Instrument D: Advisory Council Evaluation. The survey instrument consists of 5 questions.	The overall mean value from the advisory council survey need to be greater than 3.5.	Once per year	Yes
Instrument E: IT Forum Evaluation The instrument consists of 5 questions.	The overall mean value from the IT Forum survey need to be greater than 3.5.	Once per year	Yes

### Related Courses

\* CIS 4600 - Business Database Applications

### Outcome: Learning Outcome 21

Understand the role of knowledge management and data mining techniques.

**Track:** Computer Information Systems

**Start Date:** 04/15/2004

**End Date:** 12/31/2006

**Outcome Status:** Complete

**Assessment Evaluation:** The department uses several instruments to assess learning outcomes. The CIS program and the three majors (CIS, eBizD and TIM) under the CIS program are reviewed by the CIS faculty annually at the annual retreat. Reviews may take place more frequently at the discretion of the faculty and when required by external accreditation.

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Instrument A: Student learning outcome survey. Students taking CIS major courses are surveyed two times in each regular semester. One survey is administered at the beginning of the semester, and another one at the end of the semester.	There needs to be enough difference in mean values between the two surveys for the question(s) relating to this outcome.	Each semester the course is offered.	Yes
Instrument B: Alumni Satisfaction Evaluation. The survey instrument consists of 8 questions.	The overall mean value from the alumni survey need to be greater than 3.5.	Once per year	Yes
Instrument C: Employer Satisfaction Survey. The survey instrument consists of 6 questions.	The overall mean value from the employer survey need to be greater than 3.5.	Once per year	Yes
Instrument D: Advisory Council Evaluation. The survey instrument consists of 5 questions.	The overall mean value from the advisory council survey need to be greater than 3.5.	Once per year	Yes

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Instrument E: IT Forum Evaluation The instrument consists of 5 questions.	The overall mean value from the IT Forum survey need to be greater than 3.5.	Once per year	Yes

### Related Courses

\* CIS 4640 - Knowledge Management

### Outcome: Learning Outcome 22

Apply knowledge management and data mining in support of business operations and management.

**Track:** Computer Information Systems

**Start Date:** 04/15/2004

**End Date:** 12/31/2006

**Outcome Status:** Complete

**Assessment Evaluation:** The department uses several instruments to assess learning outcomes. The CIS program and the three majors (CIS, eBizD and TIM) under the CIS program are reviewed by the CIS faculty annually at the annual retreat. Reviews may take place more frequently at the discretion of the faculty and when required by external accreditation.

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Instrument A: Student learning outcome survey. Students taking CIS major courses are surveyed two times in each regular semester. One survey is administered at the beginning of the semester, and another one at the end of the semester.	There needs to be enough difference in mean values between the two surveys for the question(s) relating to this outcome.	Each semester the course is offered.	Yes
Instrument B: Alumni Satisfaction Evaluation. The survey instrument consists of 8 questions.	The overall mean value from the alumni survey need to be greater than 3.5.	Once per year	Yes
Instrument C: Employer Satisfaction Survey. The survey instrument consists of 6 questions.	The overall mean value from the employer survey need to be greater than 3.5.	Once per year	Yes
Instrument D: Advisory Council Evaluation. The survey instrument consists of 5 questions.	The overall mean value from the advisory council survey need to be greater than 3.5.	Once per year	Yes
Instrument E: IT Forum Evaluation The instrument consists of 5 questions.	The overall mean value from the IT Forum survey need to be greater than 3.5.	Once per year	Yes

## Related Courses

\* CIS 4640 - Knowledge Management

### Outcome: Learning Outcome 23

Ability in developing an e-commerce application.

**Track:** Computer Information Systems

**Start Date:** 04/15/2004

**End Date:** 12/31/2006

**Outcome Status:** Complete

**Assessment Evaluation:** The department uses several instruments to assess learning outcomes. The CIS program and the three majors (CIS, eBizD and TIM) under the CIS program are reviewed by the CIS faculty annually at the annual retreat. Reviews may take place more frequently at the discretion of the faculty and when required by external accreditation.

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Instrument A: Student learning outcome survey. Students taking CIS major courses are surveyed two times in each regular semester. One survey is administered at the beginning of the semester, and another one at the end of the semester.	There needs to be enough difference in mean values between the two surveys for the question(s) relating to this outcome.	Each semester the course is offered.	Yes
Instrument B: Alumni Satisfaction Evaluation. The survey instrument consists of 8 questions.	The overall mean value from the alumni survey need to be greater than 3.5.	Once per year	Yes
Instrument C: Employer Satisfaction Survey. The survey instrument consists of 6 questions.	The overall mean value from the employer survey need to be greater than 3.5.	Once per year	Yes
Instrument D: Advisory Council Evaluation. The survey instrument consists of 5 questions.	The overall mean value from the advisory council survey need to be greater than 3.5.	Once per year	Yes
Instrument E: IT Forum Evaluation. The instrument consists of 5 questions.	The overall mean value from the IT Forum survey need to be greater than 3.5.	Once per year	Yes

## Related Courses

\* CIS 4900 - e-Commerce Development

### Outcome: Learning Outcome 24

Apply various web skills in e-Commerce administration.

**Track:** Computer Information Systems

**Start Date:** 04/15/2004

**End Date:** 12/31/2006

**Outcome Status:** Complete

**Assessment Evaluation:** The department uses several instruments to assess learning outcomes. The CIS program and the three majors (CIS, eBizD and TIM) under the CIS program are reviewed by the CIS faculty annually at the annual retreat. Reviews may take place more frequently at the discretion of the faculty and when required by external accreditation.

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Instrument A: Student learning outcome survey. Students taking CIS major courses are surveyed two times in each regular semester. One survey is administered at the beginning of the semester, and another one at the end of the semester.	There needs to be enough difference in mean values between the two surveys for the question(s) relating to this outcome.	Each semester the course is offered.	Yes
Instrument B: Alumni Satisfaction Evaluation. The survey instrument consists of 8 questions.	The overall mean value from the alumni survey need to be greater than 3.5.	Once per year	Yes
Instrument C: Employer Satisfaction Survey. The survey instrument consists of 6 questions.	The overall mean value from the employer survey need to be greater than 3.5.	Once per year	Yes
Instrument D: Advisory Council Evaluation. The survey instrument consists of 5 questions.	The overall mean value from the advisory council survey need to be greater than 3.5.	Once per year	Yes
Instrument E: IT Forum Evaluation. The instrument consists of 5 questions.	The overall mean value from the IT Forum survey need to be greater than 3.5.	Once per year	Yes

**Related Courses**

\* CIS 4900 - e-Commerce Development

**Outcome: Learning Outcome 25**

Understand enterprise application architecture.

**Track:** Computer Information Systems

**Start Date:** 04/15/2004

**End Date:** 12/31/2006

**Outcome Status:** Complete

**Assessment Evaluation:** The department uses several instruments to assess learning outcomes. The CIS program and the three majors (CIS, eBizD and TIM) under the CIS program are reviewed by the CIS faculty annually at the annual retreat. Reviews may take place more frequently at the discretion of the faculty and when required by external accreditation.

Means of Assessment			
Assessment Method	Criterion	Schedule	Active

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Instrument A: Student learning outcome survey. Students taking CIS major courses are surveyed two times in each regular semester. One survey is administered at the beginning of the semester, and another one at the end of the semester.	There needs to be enough difference in mean values between the two surveys for the question(s) relating to this outcome.	Each semester the course is offered.	Yes
Instrument B: Alumni Satisfaction Evaluation. The survey instrument consists of 8 questions.	The overall mean value from the alumni survey need to be greater than 3.5.	Once per year	Yes
Instrument C: Employer Satisfaction Survey. The survey instrument consists of 6 questions.	The overall mean value from the employer survey need to be greater than 3.5.	Once per year	Yes
Instrument D: Advisory Council Evaluation. The survey instrument consists of 5 questions.	The overall mean value from the advisory council survey need to be greater than 3.5.	Once per year	Yes
Instrument E: IT Forum Evaluation The instrument consists of 5 questions.	The overall mean value from the IT Forum survey need to be greater than 3.5.	Once per year	Yes

### Related Courses

\* CIS 4990 - Enterprise Project

### Outcome: Learning Outcome 26

Ability in developing enterprise systems.

**Track:** Computer Information Systems

**Start Date:** 04/15/2004

**End Date:** 12/31/2006

**Outcome Status:** Complete

**Assessment Evaluation:** The department uses several instruments to assess learning outcomes. The CIS program and the three majors (CIS, eBizD and TIM) under the CIS program are reviewed by the CIS faculty annually at the annual retreat. Reviews may take place more frequently at the discretion of the faculty and when required by external accreditation.

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Instrument A: Student learning outcome survey. Students taking CIS major courses are surveyed two times in each regular semester. One survey is administered at the beginning of the semester, and another one at the end of the semester.	There needs to be enough difference in mean values between the two surveys for the question(s) relating to this outcome.	Each semester the course is offered.	Yes

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Instrument B: Alumni Satisfaction Evaluation. The survey instrument consists of 8 questions.	The overall mean value from the alumni survey need to be greater than 3.5.	Once per year	Yes
Instrument C: Employer Satisfaction Survey. The survey instrument consists of 6 questions.	The overall mean value from the employer survey need to be greater than 3.5.	Once per year	Yes
Instrument D: Advisory Council Evaluation. The survey instrument consists of 5 questions.	The overall mean value from the advisory council survey need to be greater than 3.5.	Once per year	Yes
Instrument E: IT Forum Evaluation The instrument consists of 5 questions.	The overall mean value from the IT Forum survey need to be greater than 3.5.	Once per year	Yes

### Related Courses

\* CIS 4990 - Enterprise Project

### Outcome: Learning Outcome 27

Understand fundamental ABAP/4 Programming syntaxes and coding technique.

**Track:** Computer Information Systems

**Start Date:** 04/15/2004

**End Date:** 12/31/2006

**Outcome Status:** Complete

**Assessment Evaluation:** The department uses several instruments to assess learning outcomes. The CIS program and the three majors (CIS, eBizD and TIM) under the CIS program are reviewed by the CIS faculty annually at the annual retreat. Reviews may take place more frequently at the discretion of the faculty and when required by external accreditation.

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Instrument A: Student learning outcome survey. Students taking CIS major courses are surveyed two times in each regular semester. One survey is administered at the beginning of the semester, and another one at the end of the semester.	There needs to be enough difference in mean values between the two surveys for the question(s) relating to this outcome.	Each semester the course is offered.	Yes
Instrument B: Alumni Satisfaction Evaluation. The survey instrument consists of 8 questions.	The overall mean value from the alumni survey need to be greater than 3.5.	Once per year	Yes

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Instrument C: Employer Satisfaction Survey. The survey instrument consists of 6 questions.	The overall mean value from the employer survey need to be greater than 3.5.	Once per year	Yes
Instrument D: Advisory Council Evaluation. The survey instrument consists of 5 questions.	The overall mean value from the advisory council survey need to be greater than 3.5.	Once per year	Yes
Instrument E: IT Forum Evaluation The instrument consists of 5 questions.	The overall mean value from the IT Forum survey need to be greater than 3.5.	Once per year	Yes

#### Related Courses

\* CIS 5550 - CIS Special Topics

#### Outcome: Learning Outcome 28

Ability in developing SAP Interface, Report, and fundamental Dialog Applications.

**Track:** Computer Information Systems

**Start Date:** 04/15/2004

**End Date:** 12/31/2006

**Outcome Status:** Complete

**Assessment Evaluation:** The department uses several instruments to assess learning outcomes. The CIS program and the three majors (CIS, eBizD and TIM) under the CIS program are reviewed by the CIS faculty annually at the annual retreat. Reviews may take place more frequently at the discretion of the faculty and when required by external accreditation.

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Instrument A: Student learning outcome survey. Students taking CIS major courses are surveyed two times in each regular semester. One survey is administered at the beginning of the semester, and another one at the end of the semester.	There needs to be enough difference in mean values between the two surveys for the question(s) relating to this outcome.	Each semester the course is offered.	Yes
Instrument B: Alumni Satisfaction Evaluation. The survey instrument consists of 8 questions.	The overall mean value from the alumni survey need to be greater than 3.5.	Once per year	Yes
Instrument C: Employer Satisfaction Survey. The survey instrument consists of 6 questions.	The overall mean value from the employer survey need to be greater than 3.5.	Once per year	Yes

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Instrument D: Advisory Council Evaluation. The survey instrument consists of 5 questions.	The overall mean value from the advisory council survey need to be greater than 3.5.	Once per year	Yes
Instrument E: IT Forum Evaluation The instrument consists of 5 questions.	The overall mean value from the IT Forum survey need to be greater than 3.5.	Once per year	Yes

### Related Courses

\* CIS 5550 - CIS Special Topics

### Outcome: LO1 - Knowledge in state-of-the-art information technologies

Students understand state-of-the-art information technologies.

**Track:** Computer Information Systems

**Start Date:** 01/01/2007

**Outcome Status:** Active

**Assessment Evaluation:** The department uses several instruments to assess learning outcomes. The CIS program and the three majors (CIS, eBizD and TIM) under the CIS program are reviewed by the CIS faculty annually at the annual retreat. Reviews may take place more frequently at the discretion of the faculty and when required by external accreditation.

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
[Student learning outcome survey] Students taking CIS courses are surveyed two times in each regular semester. One survey is administered at the beginning of the semester, and another one at the end of the semester.  Two questions relating to this learning outcome are listed below: 1. Understand contemporary information technologies in support of business. 2. Know how to use information technologies for business applications.	There needs to be enough difference in mean values between the two surveys for the question(s) relating to this outcome. The overall average of the two questions from the end-of-semester survey should be at least 3.0.	At least once a year. Note that some courses are offered regularly, some are only offered once a year, and some others are only offered when there is demand.	Yes
[Employer survey]	The overall average should be at least 3.0 to indicate employer satisfaction towards CIS graduates and CIS program.	Once a year.	Yes
[Alumni survey]	The overall average should be at least 3.0 to indicate good alumni satisfaction towards CIS program.	Once a year.	Yes
[IT Forum survey]	The overall average should be at least 3.0.	Once a year.	Yes

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
[CIS advisory council survey]	The overall rating should be at least 3.0.	Once a year.	Yes

### Related Courses

- \* CIS 2600 - Business Programming A
- \* CIS 2610 - Business Programming B
- \* CIS 2800 - Internet Programming
- \* CIS 3260 - LAN Administration
- \* CIS 3600 - Systems Analysis and Design
- \* CIS 3660 - Computer Networking
- \* CIS 3900 - Business Web Architecture
- \* CIS 4600 - Business Database Applications
- \* CIS 4640 - Knowledge Management
- \* CIS 4900 - e-Commerce Development
- \* CIS 4950 - Web administration
- \* CIS 4990 - Enterprise Project
- \* CIS 5550 - CIS Special Topics

### Outcome: LO2 - Preparation for dynamic market needs

Students are prepared for the dynamic needs of the market.

**Track:** Computer Information Systems

**Start Date:** 01/01/2007

**Outcome Status:** Active

**Assessment Evaluation:** The department uses several instruments to assess learning outcomes. The CIS program and the three majors (CIS, eBizD and TIM) under the CIS program are reviewed by the CIS faculty annually at the annual retreat. Reviews may take place more frequently at the discretion of the faculty and when required by external accreditation.

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
[Student learning outcome survey]  Students taking CIS courses are surveyed two times in each regular semester. One survey is administered at the beginning of the semester, and another one at the end of the semester.  Two questions relating to this learning outcome are listed below: 1. Understand business needs supported by information technologies. 2. Apply information technology knowledge and skills to meet the changing market needs.	There needs to be enough difference in mean values between the two surveys for the question(s) relating to this outcome. The overall average of the two questions from the end-of-semester survey should be at least 3.0.	At least once a year. Note that some courses are offered regularly, some are only offered once a year, and some others are only offered when there is demand.	Yes
[Employer survey]	The overall average should be at least 3.0 to indicate employer satisfaction towards CIS graduates and CIS program.	Once a year.	Yes
[Alumni survey]	The overall average should be at least 3.0 to indicate good alumni satisfaction towards CIS program.	Once a year.	Yes

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
[IT Forum survey]	The overall average should be at least 3.0.	Once a year.	Yes
[CIS advisory council survey]	The overall rating should be at least 3.0.	Once a year.	Yes

### Related Courses

- \* CIS 3260 - LAN Administration
- \* CIS 3600 - Systems Analysis and Design
- \* CIS 3660 - Computer Networking
- \* CIS 3900 - Business Web Architecture
- \* CIS 4600 - Business Database Applications
- \* CIS 4640 - Knowledge Management
- \* CIS 4900 - e-Commerce Development
- \* CIS 4950 - Web administration
- \* CIS 4990 - Enterprise Project
- \* CIS 5550 - CIS Special Topics

### Outcome: LO3 - IT curriculum that meets stakeholder needs

Offering IT-oriented curriculum that meets stakeholders? needs

**Track:** Computer Information Systems

**Start Date:** 01/01/2007

**Outcome Status:** Active

**Assessment Evaluation:** The department uses several instruments to assess learning outcomes. The CIS program and the three majors (CIS, eBizD and TIM) under the CIS program are reviewed by the CIS faculty annually at the annual retreat. Reviews may take place more frequently at the discretion of the faculty and when required by external accreditation.

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
[Student learning outcome survey]  Students taking CIS courses are surveyed two times in each regular semester. One survey is administered at the beginning of the semester, and another one at the end of the semester.  The question relating to this learning outcome is listed below: 1. Curriculum prepares you for information technology-oriented career.	There needs to be enough difference in mean values between the two surveys for the question(s) relating to this outcome. The overall average of the question from the end-of-semester survey should be at least 3.0.	At least once a year. Note that some courses are offered regularly, some are only offered once a year, and some others are only offered when there is demand.	Yes
[Employer survey]	The overall average should be at least 3.0 to indicate employer satisfaction towards CIS graduates and CIS program.	Once a year.	Yes
[Alumni survey]	The overall average should be at least 3.0 to indicate good alumni satisfaction towards CIS program.	Once a year.	Yes
[IT Forum survey]	The overall average should be at least 3.0.	Once a year.	Yes

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
[CIS advisory council survey]	The overall rating should be at least 3.0.	Once a year.	Yes

### Related Courses

- \* CIS 3260 - LAN Administration
- \* CIS 3600 - Systems Analysis and Design
- \* CIS 3660 - Computer Networking
- \* CIS 3900 - Business Web Architecture
- \* CIS 4600 - Business Database Applications
- \* CIS 4640 - Knowledge Management
- \* CIS 4900 - e-Commerce Development
- \* CIS 4950 - Web administration
- \* CIS 4990 - Enterprise Project
- \* CIS 5550 - CIS Special Topics

### Outcome: Baccalaureate Level Writing Proficiency

Students will have demonstrated understanding of effective written, oral and visual communication, both in analysis and creation; engage in productive team communication; meet University Baccalaureate writing criteria, stated in the standardized syllabus; produce effective career-related documents; demonstrate effective critical reading and listening practices.

**Track:** Business Communication

**Start Date:** 08/01/2005

**End Date:** 08/01/2014

**Outcome Status:** Complete

**Assessment Evaluation:** Individually written analytical assignments drawn from a sample of eight sections of BUS3700 Integrated Communication in Business, n = 50, will be evaluated using the course and Baccalaureate Writing Requirement criteria every other fall semester, beginning in 2006. Each fall, the faculty will then use the results to determine future emphases and revisions in the course content.

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Individually written assignments, submitted anonymously, will be reviewed using the criteria below as well as the Bacc.Writing criteria for the University. Papers will be judged as Strong, Adequate or Weak.	<ol style="list-style-type: none"> <li>1. Reflects understanding of communication problem.</li> <li>2. Organization reflects purpose and audience.</li> <li>3. Ideas and arguments support purpose</li> <li>4. Style and tone are appropriate for audience.</li> <li>5. Conventions of standard written English are used regularly.</li> </ol>	Every other fall semester, beginning 2006.	Yes

### Outcome: LO 01 (Common, 08 - 09)

To teach state-of-the-art information technologies.

**Track:** Computer Information Systems

**Start Date:** 09/01/2008

**Outcome Status:** Active

### Outcome: LO 02 (Common, 08 - 09)

To prepare graduates for the dynamic market needs.

**Track:** Computer Information Systems

**Start Date:** 09/01/2008  
**Outcome Status:** Active

**Outcome: LO 03 (Common, 08 - 09)**

To develop IT-oriented curriculum that meets stakeholders' needs.

**Track:** Computer Information Systems  
**Start Date:** 09/01/2008  
**Outcome Status:** Active

**Outcome: LO 04 (Course, 08 - 09)**

Understand programming principles, logic and control structures.

**Track:** Computer Information Systems  
**Start Date:** 09/01/2008  
**Outcome Status:** Active

**Outcome: LO 05 (Course, 08 - 09)**

Develop business applications using a current programming language.

**Track:** Computer Information Systems  
**Start Date:** 09/01/2008  
**Outcome Status:** Active

**Outcome: LO 06 (Course, 08 - 09)**

Understand programming principles, logic and control structures.

**Track:** Computer Information Systems  
**Start Date:** 09/01/2008  
**Outcome Status:** Active

**Outcome: LO 07 (Course, 08 - 09)**

Develop web-based applications using Internet programming languages.

**Track:** Computer Information Systems  
**Start Date:** 09/01/2008  
**Outcome Status:** Active

**Outcome: LO 08 (Course, 08 - 09)**

Understand basic concepts, fundamental principles, and functionalities of computer networking and data communications.

**Track:** Computer Information Systems  
**Start Date:** 09/01/2008  
**Outcome Status:** Active

**Outcome: LO 09 (Course, 08 - 09)**

Know the design, implementation, administration and security of computer networks and data communications.

**Track:** Computer Information Systems  
**Start Date:** 09/01/2008  
**Outcome Status:** Active

**Outcome: LO 10 (Course, 08 - 09)**

Understand how information systems are developed in support of business.

**Track:** Computer Information Systems  
**Start Date:** 09/01/2008  
**Outcome Status:** Active

**Outcome: LO 11 (Course, 08 - 09)**

Apply major methodologies and modeling tools to analyze and design information systems.

**Track:** Computer Information Systems

**Start Date:** 09/01/2008

**Outcome Status:** Active

**Outcome: LO 12 (Course, 08 - 09)**

Understand concepts, functions and requirements of information assurance and compliance in support of business operations.

**Track:** Computer Information Systems

**Start Date:** 09/01/2008

**Outcome Status:** Active

**Outcome: LO 13 (Course, 08 - 09)**

Know how to design the elements of information security architecture and how to conduct risk management and comply with information security standards.

**Track:** Computer Information Systems

**Start Date:** 09/01/2008

**Outcome Status:** Active

**Outcome: LO 14 (Course, 08 - 09)**

Understand how to apply human-computer interaction theories to the design of websites.

**Track:** Computer Information Systems

**Start Date:** 09/01/2008

**Outcome Status:** Active

**Outcome: LO 15 (Course, 08 - 09)**

Know how to design, develop, and implement effective Websites.

**Track:** Computer Information Systems

**Start Date:** 09/01/2008

**Outcome Status:** Active

**Outcome: LO 16 (Course, 08 - 09)**

Demonstrate ability in database modeling (design and development) for real world business applications.

**Track:** Computer Information Systems

**Start Date:** 09/01/2008

**Outcome Status:** Active

**Outcome: LO 17 (Course, 08 - 09)**

Demonstrate the ability to retrieve, analyze, and display information derived from databases.

**Track:** Computer Information Systems

**Start Date:** 09/01/2008

**Outcome Status:** Active

**Outcome: LO 18 (Course, 08 - 09)**

Demonstrate the ability to manipulate and interpret emerging data mining tools and artificial intelligence methodologies in order to discover new knowledge from large data sets.

**Track:** Computer Information Systems

**Start Date:** 09/01/2008

**Outcome Status:** Active

**Outcome: LO 19 (Course, 08 - 09)**

Demonstrate ability to deploy those models in real world situations in support of business operations and managerial decision making.

**Track:** Computer Information Systems

**Start Date:** 09/01/2008

**Outcome Status:** Active

**Outcome: LO 20 (Course, 08 - 09)**

Understand how to develop e-commerce applications.

**Track:** Computer Information Systems

**Start Date:** 09/01/2008

**Outcome Status:** Active

**Outcome: LO 21 (Course, 08 - 09)**

Know how to apply modern web technologies to interface e-commerce applications with other software systems (such as databases).

**Track:** Computer Information Systems

**Start Date:** 09/01/2008

**Outcome Status:** Active

**Outcome: LO 22 (Course, 08 - 09)**

Plan, deploy, and maintain Web systems and services in a business environment.

**Track:** Computer Information Systems

**Start Date:** 09/01/2008

**Outcome Status:** Active

**Outcome: LO 23 (Course, 08 - 09)**

Understand how to manage various information policies and procedures in a business environment.

**Track:** Computer Information Systems

**Start Date:** 09/01/2008

**Outcome Status:** Active

**Outcome: LO 24 (Course, 08 - 09)**

Understand enterprise application architecture.

**Track:** Computer Information Systems

**Start Date:** 09/01/2008

**Outcome Status:** Active

**Outcome: LO 25 (Course, 08 - 09)**

Know how to work with and develop enterprise systems.

**Track:** Computer Information Systems

**Start Date:** 09/01/2008

**Outcome Status:** Active