

Revised 7/23/07

PROPOSAL SUMMARY AND ROUTING FORM




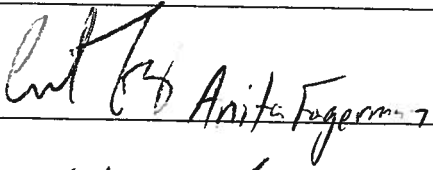
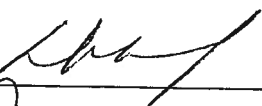
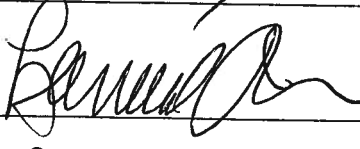
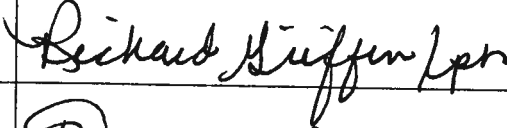
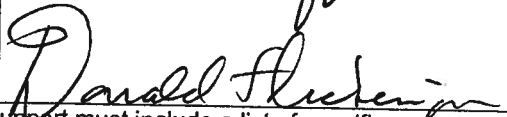
Proposal Title: Minor Cleanup – Statistics Courses and Business Data Analytics
Course checksheet

Initiating Unit or Individual: Marketing Department

Contact Person's Name: Kay Anderson e-mail: andersok@ferris.edu phone: x2426

Date or Term of Proposal Implementation: Summer 2010

- Group I - A – New degree/major or major, redirection of a current offering, or elimination of a degree, major or minor
- Group I - B – New minors or concentrations
- Group II - A – Minor curriculum clean-up and course changes
- Group II - B – New Course
- Group III - Certificates
- Group IV – Off-Campus Programs

Group/Individual	Signature	Date	Vote/Action *
Program Faculty		10/20/2009	<u>3</u> Support ___ Support with Concerns ___ Not Support
Department Faculty		10/20/2009	<u>14</u> Support <u>0</u> Support with Concerns <u>0</u> Not Support
Department Head		10/20/2009	<u>X</u> Support ___ Support with Concerns ___ Not Support
College Curriculum Committee	 Anita Ferguson	11/06/09	<u>4</u> Support <u>1</u> Support with Concerns <u>0</u> Not Support
Dean		11/12/09	<u>✓</u> Support ___ Support with Concerns ___ Not Support
University Curriculum Committee		1/11/10	<u>✓</u> Support 8-0 ___ Support with Concerns ___ Not Support
Senate	 Richard Huffer	1/25/10	<u>✓</u> Support ___ Support with Concerns ___ Not Support
Academic Affairs	 Donald Fleckenstein	1/25/10	<u>✓</u> Support ___ Support with Concerns ___ Not Support

* Support with Concerns or Not Support must include a list of specific concerns. Votes must be shown for faculty groups. Administrators check appropriate action taken.

To be completed by Academic Affairs

President (Date Approved)

Board of Trustees (Date Approved)

President's Council (Date Approved)

1. Proposal Summary

(Summary is generally less than one page. Briefly: state what is proposed with a summary of rationale and highlights. Additional rationale may be attached.)

Minor cleanup of Statistics courses – prerequisite changes, course numbering. Change in numbering of STQM 200 (deletion of the course, change number to STQM 270), which will allow us to require STQM 260 before a student takes STQM 270.

Clean-up of Business Data Analytics checksheet to reflect changes in prerequisites and change in sequencing of courses on semester-by-semester sheet. Change in ENGL courses – instead of choice for 211/250 or 311/325, the program wishes to require ENGL 250 and ENGL 325. Checksheet being adjusted to reflect this.

2. Summary of All Course Action Required*

a. Newly Created Courses to FSU:

Prefix	Number	Title
STQM	270	Introduction to Data Mining (course # change from STQM 200)

b. Courses to be Deleted From FSU Catalog:

Prefix	Number	Title
STQM	200	Introduction to Data Mining

c. Existing Course(s) to be Modified:

Prefix	Number	Title
STQM	260	Introduction to Statistics
STQM	322	Inferential Statistics
STQM	341	Management Science
STQM	342	Data Mining Tools
STQM	351	Quality Control for Management
STQM	360	Risk Analysis and Strategy
STQM	380	Data Mining Processes
STQM	460	Data Query, Analysis, and Reporting

d. Addition of existing FSU courses to program

Prefix	Number	Title
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e. Removal of existing FSU courses from program

Prefix	Number	Title
ENGL	211	Industrial and Career Writing
ENGL	311	Advanced Technical Writing

*Contact Senate Secretary or UCC Chair if spaces for additional courses are needed.

CURRICULUM CONSULTATION FORM

To be completed by each department affected by the proposed change, new degree, new program, new minor, or new course. Potential duplication of coursework is reason for consultation.

1. This completed form must be forwarded with the proposal to the chair/head of the department to be consulted.
2. The department must respond within 20 calendar days of receipt of this form to insure inclusion in the final proposal. The completed form is returned to the initiator and inserted into the proposal.

Failure to respond is interpreted as support for the proposal.

3. The Proposing Department must address any concerns raised by the department. This response will be in writing and be included in the proposal following the consultation form.

RE: Proposal Title Minor Clean-up STQM Courses, Business Data Analysis
Checksheet

Initiator(s): Statistics Faculty, Nate Tymes

Proposal Contact: Kay Anderson **Date Sent:** 10/26/2009

Department: Marketing Department **Campus Address:** College of Business, 212
(Please print)

Responding Department: Languages and Literature

Chair/Head/Coordinator: Nathan Garrelts **Date Returned:** 11-10-09

Based upon department faculty review on 11-10-09 (date), we

- Support the above proposal.
 Support the above proposal with the modifications and concerns listed below.
 Do not support the proposal for the reasons listed below.

Comment regarding the impact this proposal has on scheduling, room assignments, faculty load, and prerequisites for your department. Use additional pages, if necessary.

FLITE SERVICES CONSULTATION FORM

To be completed by the liaison librarian and approved by the Dean of FLITE. All returned forms should be included in the proposal. **FLITE must respond within 20 calendar days of receipt of this form to insure that the form is included in the final proposal.**

FAILURE TO RESPOND IS CONSIDERED AS SUPPORT OF THE CHANGE.

RE: Proposal Title: Minor Cleanup – Statistics Courses and Business Data Analytics Course checksheet

Projected number of students per year affected by proposed change: 10 first year, more in following years

Initiator(s): Statistics Faculty, Nate Tymes

Proposal Contact: Kay Anderson Date Sent: 12/14/2009

Department: Marketing Department Campus Address: BUS 212
(Please print)

Liaison Librarian Signature: David Scott - David A. Scott Date: 12/14/2009 12-18-09

Dean of FLITE Signature: Deah M. Moneys Date Returned: 12-18-09

Based upon our review on 12-18-09 (date), FLITE concludes that:

- Library resources to support the proposed curriculum change are currently available.
- Additional Library resources are needed but can be obtained from current funds.
- Support, but significant additional Library funds/resources are required in the amount of \$ _____.
- Does not support the proposal for reasons listed below.

Comment regarding the impact this proposal will have on library resources, collection development, programs, etc. Use additional pages if necessary.

DELETE COURSE
Course Data Entry Form

FORM F

Delete Course
Rev. 7/23/07

I. ACTION TO BE TAKEN: DELETE COURSE FROM CATALOG.

Note: Complete each section.

The course described below will be moved to inactive status.

a. Term Effective: Term Year See instructions.


II. CURRENT COURSE TO BE DELETED FROM THE ACTIVE STATUS:

Include the information that is in the current course database.

a. Course Prefix b. Number c. Enter Contact Hours per week in boxes.
LECTure LAB INDEPENDENT Study – Check (x)
Practicum: Seminar:

d. Full Course Title:

UCC Chair Signature/Date:



Academic Affairs Approval Signature/Date:

Office of the Registrar use ONLY

Date Rec'd: ___ Date Completed: ___ Entered: SCACRSE ___ SCADETL ___ SCARRES ___ SCAPREQ ___

NEW COURSE INFORMATION FORM*See Sample – Limit to Two Pages Please***Course Identification:**

Prefix:	Number	Title
STQM	270	Introduction to Data Mining

Course Description:

Explore the relationship between data mining, data warehousing, and organizational needs. Explore basic data mining processes, methods and tools in varied areas of application such as business, manufacturing, healthcare, education, criminal justice, or government. Explore knowledge requirements across varied application areas as well as robust data mining processes and tools to serve varied needs. Case studies illustrate varied knowledge needs and data mining processes, methods, and tools. Introduce basic data mining software (e.g. WEKA, Excel based, or SPSS based).

Course Outcomes and Assessment Plan:

1. Define data mining, data warehousing, and organizational needs and articulate ways in which these three are inter-related within an organizational context.
Evaluation: Objective testing, team role-play analysis, case study analysis or project assessment
2. Identify organizational needs amenable to data mining and communicate ways in which data mining meets those needs.
Evaluation: Objective testing, team role-play analysis, case study analysis or project assessment.
3. Describe the role of data mining and data miners within an organization, particularly as related to organizational needs assessment, information needs assessment, data warehousing, data extraction, data preparation, pattern recognition, and reporting.
Evaluation: Objective testing, team role-play analysis, case study analysis or project assessment.
4. Express basic approaches to data storage, retrieval, and preparation pursuant to data mining applications.
Evaluation: Objective testing, team role-play analysis, case study analysis or project assessment
5. Identify and apply basic approaches and pattern detection tools utilized in data mining and ways of assessing their effectiveness.
Evaluation: Objective testing, case study analysis or assessment of simple software application(s).
6. Articulate the support and operational roles of software to data mining.
Evaluation: Objective testing, case study analysis or project assessment
7. Express ways in which data mining serves particular organizational needs in various areas of application, including business, marketing, education, healthcare, criminal justice, and government.
Evaluation: Objective testing, case study analysis or project assessment

Course Outline including Time Allocation:

I. Overview of Data Mining (6 hours)

- What is data mining and in what fields is it applied?
- What is data warehousing and how is it related to data mining?
- What types of organizational needs/problems are amenable to data mining?
- What roles do data mining and data miners play within an organization – particularly with respect to knowledge needs.
- How does a data miner help identify and understand organizational needs amenable to data mining?

II. Base Data Mining Strategies (6 hours)

- Practical data mining processes
- KDD
- CRISP_DM
- Other approaches

III. Basic Data Mining Tools (6 hours)

- Decision tree algorithms
- K-Means algorithms
- Learning methods
- Others

IV. Basic Data Mining Software (6 hours)

- How software works?
- Basic Applications

V. Case Study Applications (15 hours)

- Criminal Justice application
- Business application
- Education application
- Government application
- Healthcare application
- Manufacturing application

VI. Projects, Guest Speakers, Tests (6 hours)

CREATE NEW COURSE

FORM F

Course Data Entry Form

Create New Course

Rev. 07/23/07

I. ACTION TO BE TAKEN: CREATE A NEW COURSE

Notes

1. Complete each item in Section I and Section II.
2. If this course is to be used as a prerequisite for other university courses, Form Fs that reflect the prerequisite change must be submitted for those courses as well.

Term Effective (6 digit code only): 201005 Examples: 200801(Spring), 200805(Summer), 200808(Fall)

Note: The first four digits indicate year, the next two digits indicate month in which term begins.

II. PROPOSED FOR NEW COURSE: Complete all sections a through r. See manual for clarification.

a. Course Prefix STQM b. Number 270 c. Enter Contact Hours per week in boxes.
LECTure 3 LAB INDEPENDENT Study – Check (x)

Practicum: Seminar:

d. Course Title: Introduction to Data Mining (Limit to 30 characters/spaces.)

e. College Code: BU f. Department Code: MKTG

Credit Hours: Check (x) type and enter maximum and minimum hours in boxes.

g. Type: Variable Fixed h. Minimum Credit Hours 3 i. Maximum Credit Hours 3

j. May Be Repeated for Added Credit: Check (x) Yes No

k. Levels: Check (x) Undergraduate Graduate Professional

l. Grade Method: Check (x) Normal Grading Credit/No Credit only (Pass/Fail)

m. Does proposed new course replace an equivalent course? Check (x) Yes No

n. Equivalent course: Prefix STQM Number 200 See instructions on Replacement courses.

o. CATALOG DESCRIPTION – Limit to 75 words – PLEASE BE CONCISE.

Explore the relationship between data mining, data warehousing, and organizational needs. Explore basic data mining processes, methods and tools in varied areas of application such as business, manufacturing, healthcare, education, criminal justice, or government. Explore knowledge requirements across varied application areas as well as robust data mining processes and tools to serve varied needs. Case studies illustrate varied knowledge needs and data mining processes, methods, and tools. Introduce basic data mining software (e.g. WEKA, Excel based, or SPSS based).

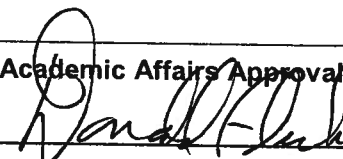
p. Term(s) Offered: F,S,Su (See instructions for listing.) q. Max. Section Enrollment: 30

r. Prerequisites/Co-requisites/Restrictions: (If none, leave blank.) Limited to 100 spaces. STQM 260 w/C- or better.

UCC Chair Signature/Date:

 1/11/10

Academic Affairs Approval Signature/Date:

 1/20/10

To be completed by Academic Affairs Office: - Standard & Measures Coding and General Education Code

Basic Skill (BS) General Education (GE) Occupational Education (OC) G.E. Codes

Office of the Registrar use ONLY

Date Rec'd: ___ Date Completed: ___ Entered: SCACRSE ___ SCADETL ___ SCARRES ___ SCAPREQ ___

MODIFY COURSE
Course Data Entry Form

FORM F

Modify Course
Rev. 07/23/07

I. ACTION TO BE TAKEN: MODIFY AN EXISTING COURSE

Notes:

1. Complete all parts of Sections I and II; complete only those items in Section III that represent changes.
2. If either prefix or number is being changed, use 'Delete Course' and 'Create New Course' forms rather than this form.

a. List the changes to be made (See Proposed Changes a through p below): P. Prerequisite change

b. Term Effective (6 digit code only): 201005 Examples: 200801(Spring), 200805(Summer), 200808(Fall)
Note: The first four digits indicate year, the next two digits indicate month in which term begins.

II. CURRENT: Include information that is in the current course database.

a. Course Prefix STQM b. Number 260 c. Enter Contact Hours per week in boxes.
LECture 3 LAB INDEpendent Study – Check (x)
Practicum: Seminar:

d. Course Title: Introduction to Statistics

III. PROPOSED CHANGES: Complete only those boxes that represent proposed changes identified in Section I. Leave all other spaces blank.

a. Course Prefix b. Number c. Enter Contact Hours per week in boxes.
LECture LAB INDEpendent Study – Check (x)
Practicum: Seminar:

d. Course Title: (Limit to 30 characters/spaces.)

e. College Code: f. Department Code:

Credit Hours: Check (x) type and enter maximum and minimum hours in boxes.

g. Type: Variable Fixed h. Maximum Credit Hours i. Minimum Credit Hours

j. May Be Repeated for Added Credit: Check (x) Yes No

k. Levels: Check (x) Undergraduate Graduate Professional

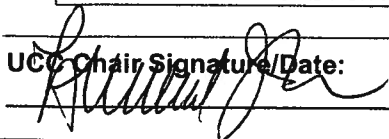
l. Grade Method: Check (x) Normal Grading Credit/No Credit only (Pass/Fail)

m. CATALOG DESCRIPTION – Limit to 75 words – PLEASE BE CONCISE.

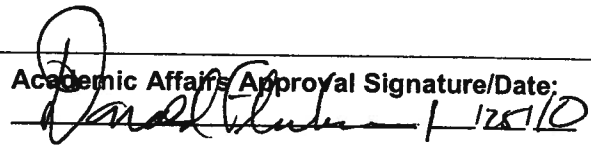
n. Term(s) Offered: (See instructions for listing.) o. Max. Section Enrollment:

p. Prerequisites/Co-requisites/Restrictions: Limited to 100 spaces. MATH 115, 116, 120, 126, 130, 132, or 135
with a C- or better or 24 on ACT or 560 on SAT

UCO Chair Signature/Date:

 1/10/10

Academic Affairs Approval Signature/Date:

 1/25/10

To be completed by Academic Affairs Office: - Standard & Measures Coding and General Education Code
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Office of the Registrar use ONLY

Date Rec'd: ___ Date Completed: ___ Entered: SCACRSE ___ SCADETL ___ SCARRES ___ SCAPREQ ___

MODIFY COURSE
Course Data Entry Form

FORM F

Modify Course
Rev. 07/23/07

I. ACTION TO BE TAKEN: MODIFY AN EXISTING COURSE

Notes:

- 3. Complete all parts of Sections I and II; complete only those items in Section III that represent changes.
- 4. If either prefix or number is being changed, use 'Delete Course' and 'Create New Course' forms rather than this form.

a. List the changes to be made (See Proposed Changes a through p below): P. Prerequisite change

b. Term Effective (6 digit code only): 201005 Examples: 200801(Spring), 200805(Summer), 200808(Fall)
Note: The first four digits indicate year, the next two digits indicate month in which term begins.

II. CURRENT: Include information that is in the current course database.

a. Course Prefix STQM b. Number 322 c. Enter Contact Hours per week in boxes.
LECTure 3 LAB INDEpendent Study – Check (x)
Practicum: Seminar:

d. Course Title: Inferential Statistics

III. PROPOSED CHANGES: Complete only those boxes that represent proposed changes identified in Section I. Leave all other spaces blank.

a. Course Prefix b. Number c. Enter Contact Hours per week in boxes.
LECTure LAB INDEpendent Study – Check (x)
Practicum: Seminar:

d. Course Title: (Limit to 30 characters/spaces.)

e. College Code: f. Department Code:

Credit Hours: Check (x) type and enter maximum and minimum hours in boxes.

g. Type: Variable Fixed h. Maximum Credit Hours i. Minimum Credit Hours

j. May Be Repeated for Added Credit: Check (x) Yes No

k. Levels: Check (x) Undergraduate Graduate Professional

l. Grade Method: Check (x) Normal Grading Credit/No Credit only (Pass/Fail)

m. CATALOG DESCRIPTION – Limit to 75 words – PLEASE BE CONCISE.

n. Term(s) Offered: (See instructions for listing.) o. Max. Section Enrollment:

p. Prerequisites/Co-requisites/Restrictions: Limited to 100 spaces. STQM 260 w/ a C- or better

UCC Chair Signature/Date:

Academic Affairs Approval Signature/Date:

To be completed by Academic Affairs Office: - Standard & Measures Coding and General Education Code
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Office of the Registrar use ONLY

Date Rec'd: ___ Date Completed: ___ Entered: SCACRSE __ SCADETL __ SCARRES __ SCAPREQ __

MODIFY COURSE
Course Data Entry Form

FORM F

Modify Course
Rev. 07/23/07

I. ACTION TO BE TAKEN: MODIFY AN EXISTING COURSE

Notes:

- 5. Complete all parts of Sections I and II; complete only those items in Section III that represent changes.
- 6. If either prefix or number is being changed, use 'Delete Course' and 'Create New Course' forms rather than this form.

a. List the changes to be made (See Proposed Changes a through p below): P. Prerequisite change

b. Term Effective (6 digit code only): 201005 Examples: 200801(Spring), 200805(Summer), 200808(Fall)
Note: The first four digits indicate year, the next two digits indicate month in which term begins.

II. CURRENT: Include information that is in the current course database.

a. Course Prefix STQM b. Number 341 c. Enter Contact Hours per week in boxes.
LEcture 3 LAB INDEpendent Study - Check (x)
Practicum: Seminar:

d. Course Title: Management Science

III. PROPOSED CHANGES: Complete only those boxes that represent proposed changes identified in Section I. Leave all other spaces blank.

a. Course Prefix b. Number c. Enter Contact Hours per week in boxes.
LEcture LAB INDEpendent Study - Check (x)
Practicum: Seminar:

d. Course Title: (Limit to 30 characters/spaces.)

e. College Code: f. Department Code:

Credit Hours: Check (x) type and enter maximum and minimum hours in boxes.

g. Type: Variable Fixed h. Maximum Credit Hours i. Minimum Credit Hours

j. May Be Repeated for Added Credit: Check (x) Yes No

k. Levels: Check (x) Undergraduate Graduate Professional

l. Grade Method: Check (x) Normal Grading Credit/No Credit only (Pass/Fail)

m. CATALOG DESCRIPTION - Limit to 75 words - PLEASE BE CONCISE.

n. Term(s) Offered: (See instructions for listing.) o. Max. Section Enrollment:

p. Prerequisites/Co-requisites/Restrictions: Limited to 100 spaces. STQM 260 w/ a C- or better

UCC Chair Signature/Date:

Academic Affairs Approval Signature/Date:

To be completed by Academic Affairs Office: - Standard & Measures Coding and General Education Code
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Date Rec'd: ____ Date Completed: ____ Entered: SCACRSE __ SCADETL __ SCARRS __ SCAPREQ __

MODIFY COURSE
Course Data Entry Form

FORM F

Modify Course
Rev. 07/23/07

I. ACTION TO BE TAKEN: MODIFY AN EXISTING COURSE

Notes:

- 7. Complete all parts of Sections I and II; complete only those items in Section III that represent changes.
- 8. If either prefix or number is being changed, use 'Delete Course' and 'Create New Course' forms rather than this form.

a. List the changes to be made (See Proposed Changes a through p below): P. Prerequisite change

b. Term Effective (6 digit code only): 201005 Examples: 200801(Spring), 200805(Summer), 200808(Fall)
Note: The first four digits indicate year, the next two digits indicate month in which term begins.

II. CURRENT: Include information that is in the current course database.

a. Course Prefix STQM b. Number 342 c. Enter Contact Hours per week in boxes.
LECTure 3 LAB INDEpendent Study – Check (x)
Practicum: Seminar:

d. Course Title: Data MiningTools

III. PROPOSED CHANGES: Complete only those boxes that represent proposed changes identified in Section I. Leave all other spaces blank.

a. Course Prefix b. Number c. Enter Contact Hours per week in boxes.
LECTure LAB INDEpendent Study – Check (x)
Practicum: Seminar:

d. Course Title: (Limit to 30 characters/spaces.)

e. College Code: f. Department Code:

Credit Hours: Check (x) type and enter maximum and minimum hours in boxes.

g. Type: Variable Fixed h. Maximum Credit Hours i. Minimum Credit Hours

j. May Be Repeated for Added Credit: Check (x) Yes No

k. Levels: Check (x) Undergraduate Graduate Professional

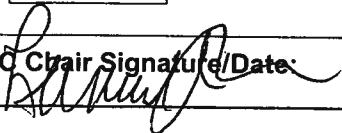
l. Grade Method: Check (x) Normal Grading Credit/No Credit only (Pass/Fail)

m. CATALOG DESCRIPTION – Limit to 75 words – PLEASE BE CONCISE.

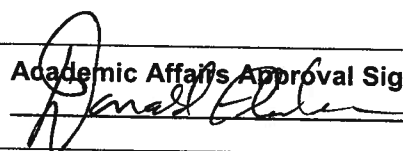
n. Term(s) Offered: (See instructions for listing.) o. Max. Section Enrollment:

p. Prerequisites/Co-requisites/Restrictions: Limited to 100 spaces. STQM 270 w/ a C- or better or permission of instructor

UCO Chair Signature/Date:

 1/11/10

Academic Affairs Approval Signature/Date:

 1/25/10

To be completed by Academic Affairs Office: - Standard & Measures Coding and General Education Code
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Office of the Registrar use ONLY

Date Rec'd: ___ Date Completed: ___ Entered: SCACRSE __ SCADETL __ SCARRES __ SCAPREQ __

MODIFY COURSE
Course Data Entry Form

FORM F

Modify Course
Rev. 07/23/07

I. ACTION TO BE TAKEN: MODIFY AN EXISTING COURSE

Notes:

- 9. Complete all parts of Sections I and II; complete only those items in Section III that represent changes.
- 10. If either prefix or number is being changed, use 'Delete Course' and 'Create New Course' forms rather than this form.

a. List the changes to be made (See Proposed Changes a through p below): P. Prerequisite change

b. Term Effective (6 digit code only): 201005 Examples: 200801(Spring), 200805(Summer), 200808(Fall)
Note: The first four digits indicate year, the next two digits indicate month in which term begins.

II. CURRENT: Include information that is in the current course database.

a. Course Prefix STQM b. Number 351 c. Enter Contact Hours per week in boxes.
LECTure 3 LAB INDEpendent Study – Check (x)
Practicum: Seminar:

d. Course Title: Quality Control for Management

III. PROPOSED CHANGES: Complete only those boxes that represent proposed changes identified in Section I. Leave all other spaces blank.

a. Course Prefix b. Number c. Enter Contact Hours per week in boxes.
LECTure LAB INDEpendent Study – Check (x)
Practicum: Seminar:

d. Course Title: (Limit to 30 characters/spaces.)

e. College Code: f. Department Code:

Credit Hours: Check (x) type and enter maximum and minimum hours in boxes.

g. Type: Variable Fixed h. Maximum Credit Hours i. Minimum Credit Hours

j. May Be Repeated for Added Credit: Check (x) Yes No

k. Levels: Check (x) Undergraduate Graduate Professional


l. Grade Method: Check (x) Normal Grading Credit/No Credit only (Pass/Fail)

m. CATALOG DESCRIPTION – Limit to 75 words – PLEASE BE CONCISE.

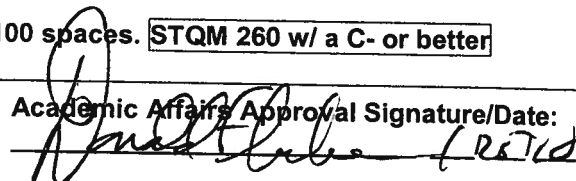
n. Term(s) Offered: (See instructions for listing.) o. Max. Section Enrollment:

p. Prerequisites/Co-requisites/Restrictions: Limited to 100 spaces. STQM 260 w/ a C- or better

UCG Chair Signature/Date:

 1/11/10

Academic Affairs Approval Signature/Date:

 1/11/10

To be completed by Academic Affairs Office: - Standard & Measures Coding and General Education Code
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Office of the Registrar use ONLY

Date Rec'd: ___ Date Completed: ___ Entered: SCACRSE ___ SCADETL ___ SCARRES ___ SCAPREQ ___

MODIFY COURSE
Course Data Entry Form

FORM F

Modify Course
Rev. 07/23/07

I. ACTION TO BE TAKEN: MODIFY AN EXISTING COURSE

Notes:

- 11. Complete all parts of Sections I and II; complete only those items in Section III that represent changes.
- 12. If either prefix or number is being changed, use 'Delete Course' and 'Create New Course' forms rather than this form.

a. List the changes to be made (See Proposed Changes a through p below): P. Prerequisite change

b. Term Effective (6 digit code only): 201005 Examples: 200801(Spring), 200805(Summer), 200808(Fall)
Note: The first four digits indicate year, the next two digits indicate month in which term begins.

II. CURRENT: Include information that is in the current course database.

a. Course Prefix STQM b. Number 360 c. Enter Contact Hours per week in boxes.
LECTure 3 LAB INDEpendent Study – Check (x)
Practicum: Seminar:

d. Course Title: Risk Analysis and Strategy

III. PROPOSED CHANGES: Complete only those boxes that represent proposed changes identified in Section I. Leave all other spaces blank.

a. Course Prefix b. Number c. Enter Contact Hours per week in boxes.
LECTure LAB INDEpendent Study – Check (x)
Practicum: Seminar:

d. Course Title: (Limit to 30 characters/spaces.)

e. College Code: f. Department Code:

Credit Hours: Check (x) type and enter maximum and minimum hours in boxes.

g. Type: Variable Fixed h. Maximum Credit Hours i. Minimum Credit Hours

j. May Be Repeated for Added Credit: Check (x) Yes No

k. Levels: Check (x) Undergraduate Graduate Professional

l. Grade Method: Check (x) Normal Grading Credit/No Credit only (Pass/Fail)

m. CATALOG DESCRIPTION – Limit to 75 words – PLEASE BE CONCISE.

n. Term(s) Offered: (See instructions for listing.) o. Max. Section Enrollment:

p. Prerequisites/Co-requisites/Restrictions: Limited to 100 spaces. STQM 260 w/ C- or better or permission of instructor

UCC Chair Signature/Date:

Academic Affairs Approval Signature/Date:

To be completed by Academic Affairs Office: - Standard & Measures Coding and General Education Code
 Basic Skill (BS) General Education (GE) Occupational Education (OC) G.E. Codes

Office of the Registrar use ONLY

Date Rec'd: ____ Date Completed: ____ Entered: SCACRSE __ SCADETL __ SCARRES __ SCAPREQ __

MODIFY COURSE
Course Data Entry Form

FORM F

Modify Course
Rev. 07/23/07

I. ACTION TO BE TAKEN: MODIFY AN EXISTING COURSE

Notes:

- 13. Complete all parts of Sections I and II; complete only those items in Section III that represent changes.
- 14. If either prefix or number is being changed, use 'Delete Course' and 'Create New Course' forms rather than this form.

a. List the changes to be made (See Proposed Changes a through p below): P. Prerequisite change

b. Term Effective (6 digit code only): 201005 Examples: 200801(Spring), 200805(Summer), 200808(Fall)
Note: The first four digits indicate year, the next two digits indicate month in which term begins.

II. CURRENT: Include information that is in the current course database.

a. Course Prefix STQM b. Number 380 c. Enter Contact Hours per week in boxes.
LECTure 3 LAB INDEpendent Study – Check (x)
Practicum: Seminar:

d. Course Title: Data Mining Processes

III. PROPOSED CHANGES: Complete only those boxes that represent proposed changes identified in Section I. Leave all other spaces blank.

a. Course Prefix b. Number c. Enter Contact Hours per week in boxes.
LECTure LAB INDEpendent Study – Check (x)
Practicum: Seminar:

d. Course Title: (Limit to 30 characters/spaces.)

e. College Code: f. Department Code:

Credit Hours: Check (x) type and enter maximum and minimum hours in boxes.

g. Type: Variable Fixed h. Maximum Credit Hours i. Minimum Credit Hours

j. May Be Repeated for Added Credit: Check (x) Yes No

k. Levels: Check (x) Undergraduate Graduate Professional

l. Grade Method: Check (x) Normal Grading Credit/No Credit only (Pass/Fail)

m. CATALOG DESCRIPTION – Limit to 75 words – PLEASE BE CONCISE.

n. Term(s) Offered: (See instructions for listing.) o. Max. Section Enrollment:

p. Prerequisites/Co-requisites/Restrictions: Limited to 100 spaces. STQM 342 w/ a C- or better or permission of instructor

UCC Chair Signature/Date: [Signature] 1/14/10

Academic Affairs Approval Signature/Date: [Signature] 1/14/10

To be completed by Academic Affairs Office: - Standard & Measures Coding and General Education Code
 Basic Skill (BS) General Education (GE) Occupational Education (OC) G.E. Codes

Office of the Registrar use ONLY
Date Rec'd: ___ Date Completed: ___ Entered: SCACRSE ___ SCADETL ___ SCARRES ___ SCAPREQ ___

MODIFY COURSE
Course Data Entry Form

FORM F

Modify Course
Rev. 07/23/07

I. ACTION TO BE TAKEN: MODIFY AN EXISTING COURSE

Notes:

15. Complete all parts of Sections I and II; complete only those items in Section III that represent changes.

16. If either prefix or number is being changed, use 'Delete Course' and 'Create New Course' forms rather than this form.

a. List the changes to be made (See Proposed Changes a through p below): P. Prerequisite change

b. Term Effective (6 digit code only): 201005 Examples: 200801(Spring), 200805(Summer), 200808(Fall)

Note: The first four digits indicate year, the next two digits indicate month in which term begins.

II. CURRENT: Include information that is in the current course database.

a. Course Prefix

STQM

b. Number

460

c. Enter Contact Hours per week in boxes.

LECture 3

LAB

INDEpendent Study – Check (x)

Practicum:

Seminar:

d. Course Title: Data Warehouse Query, Analysis, and Reporting

III. PROPOSED CHANGES: Complete only those boxes that represent proposed changes identified in Section I. Leave all other spaces blank.

a. Course Prefix

b. Number

c. Enter Contact Hours per week in boxes.

LECture

LAB

INDEpendent Study – Check (x)

Practicum:

Seminar:

d. Course Title: (Limit to 30 characters/spaces.)

e. College Code:

f. Department Code:

Credit Hours: Check (x) type and enter maximum and minimum hours in boxes.

g. Type: Variable Fixed

h. Maximum Credit Hours

i. Minimum Credit Hours

j. May Be Repeated for Added Credit: Check (x) Yes No

k. Levels: Check (x) Undergraduate Graduate Professional

l. Grade Method: Check (x) Normal Grading Credit/No Credit only (Pass/Fail)

m. CATALOG DESCRIPTION – Limit to 75 words – PLEASE BE CONCISE.

n. Term(s) Offered: (See instructions for listing.)


o. Max. Section Enrollment:

p. Prerequisites/Co-requisites/Restrictions: Limited to 100 spaces. STQM 450 w/ a C- or better or permission of instructor

UCC Chair Signature/Date:

 11/4/10

Academic Affairs Approval Signature/Date:

 1/25/10

To be completed by Academic Affairs Office: - Standard & Measures Coding and General Education Code

Basic Skill (BS) General Education (GE) Occupational Education (OC) G.E. Codes

Office of the Registrar use ONLY

Date Rec'd: ___ Date Completed: ___ Entered: SCACRSE ___ SCADETL ___ SCARRES ___ SCAPREQ ___

CURRENT CHECKSHEET Ferris State University - College of Business **FORM D**
BACHELOR OF SCIENCE DEGREE IN BUSINESS – BUSINESS DATA ANALYTICS - 12/1/122 credits

NAME: _____

ID#: _____

Required	Course Title - Prerequisites Shown in Brackets ()	Crs	Gr	Gr Pt
COMMUNICATION COMPETENCE - 15 Credits Required				
COMM	105 Interpersonal Communication OR 121 Fund of Public Speaking (none)	3		
COMM	221 Small Group Decision Making (none)	3		
ENGL	150 English 1 (ENGL 074 w/C- or better or ACT 14 or SAT 370)	3		
ENGL	211 Industrial and Career Writing OR 250 English 2 (ENGL 150 w/C- or better)	3		
ENGL	311 Advanced Technical Writing OR 325 Advanced Business Writing (ENGL 250 or 211 w/grade of C or better)	3		
SCIENTIFIC UNDERSTANDING – 7-8 Credits Required				
Consult the Ferris website: www.ferris.edu/units/academics/gened/scicourses.html for approved courses.				
	Scientific Understanding	4		
	Scientific Understanding	3-4		
QUANTITATIVE SKILLS – 6 Credits Required				
MATH	115 Intermediate Algebra (MATH 110 w/C- or better; or 19 or ACT or 460 on SAT) If MATH ACT score is 24+, substitute a general education elective.	3		
MATH	122 Math Analysis for Business (MATH 115 w/C- or better or ACT 24 or SAT 560)	3		
CULTURAL ENRICHMENT – 9 Credits Required* - one at 200-level or above.				
Consult the Ferris website: www.ferris.edu/units/academics/gened/cultcourses.html for approved courses.				
	Cultural Enrichment Elective	3		
	Cultural Enrichment Elective	3		
PHIL	216 Introduction to Ethics	3		
SOCIAL AWARENESS – 9 Credits Required*				
**ECON	221 Principles of Macroeconomics 1 (MATH 110 w/C- or better or 19 ACT or SAT of 460)	3		
**ECON	222 Principles of Microeconomics 2 (ECON 221)	3		
**PSYC	150 Introduction to Psychology (ACT 17 READ or Verbal 430 SAT or READ 106 w/C or better)	3		
COLLEGE OF BUSINESS ADDITIONAL GENERAL EDUCATION – 3 Credits Required				
PHIL	217 Introduction to Logic	3		
BUSINESS CORE - 30 Credits Required				
ACCT	201 Principles of Accounting 1 (MATH 110 w/C- or better or 19ACT or 460SAT)	3		
ACCT	202 Principles of Accounting 2 (ACCT 201 with a grade of C- or better)	3		
BLAW	321 Contracts and Sales (None)	3		
BUSN	499 Integrating Experience (FINC 322 or MGMT 350, MGMT 370, MKTG 321, Sr status)	3		
FINC	322 Financial Mgmt 1 (ACCT 202, Math 115 or 116 or 117 or MATH ACT 24)	3		
ISYS	321 Business Information Systems (ACCT 202, MKTG 321, and MGMT 301)	3		
MGMT	301 Applied Management (none)	3		
MGMT	370 Quality/Operations Management (Soph Standing or Instructor Permit)	3		
MKTG	321 Principles of Marketing (Sophomore standing)	3		
STQM	260 Intro to Statistics (MATH 115 or 116 or 117 or 24 ACT or 560 SAT)	3		

* Global consciousness requirement must be met either through Cultural Enrichment, Social Awareness, General Education or major courses.
 ** Courses meet the Social Awareness requirements.
 Note: A 2.00 cumulative GPA is required in the major, concentration, business core and overall for completion of the Business Data Analytics degree
 Effective Fall 2009

Required	Course Title - Prerequisites Shown in Brackets ()	Crs	Gr	Gr Pt
BUSINESS DATA ANALYTICS MAJOR COURSES – 33 Credits Required				
ISYS	200 Database Design and Implementation (ISYS 105)	3		
ISYS	411 Project Management (none)	3		
STQM	200 Introduction to Data Mining (MATH 115 or MATH 116 or MATH 117 or ACT 24 or SAT 560)	3		
STQM	285 Foundations for Business Analytics (MATH 122 w/C- or better, or instructor permission)	3		
STQM	322 Statistical Inference (STQM 260)	3		
STQM	341 Management Science (STQM 260)	3		
STQM	342 Data Mining Tools (STQM 200 or instructor permission)	3		
STQM	380 Data Mining Processes (STQM 342)	3		
STQM	450 Data Warehouse Structure, Design, and Query (ISYS 200 or instructor permission)	3		
STQM	460 Data Query, Analysis, and Reporting (STQM 450 or instructor permission)	3		
	Internship (HIGHLY RECOMMENDED) OR Directed Elective (see advisor)	3		
CHOOSE ONE OF THE FOLLOWING CONCENTRATIONS				
INFORMATION SECURITY AND INTELLIGENCE CONCENTRATION – 9 Credits Required				
ISIN	220 Visual Analysis (none)	3		
ISIN	301 Data Intelligence and Competitive Theory (ISIN 220, ISYS 200)	3		
	Directed Elective (see advisor)	3		
MARKETING ANALYSIS/CONCENTRATION – 9 Credits Required				
MKTG	378 Marketing Data Analysis (MKTG 321 and STQM 260)	3		
MKTG	425 Marketing Research (MKTG 321 and STQM 260)	3		
	Directed Elective (see advisor)	3		
BUSINESS INFORMATION SYSTEMS CONCENTRATION – 9 Credits Required				
ISYS	202 Principles of Information Systems (ISYS 105)	3		
ISYS	303 Systems Analysis Methods (ISYS 200)	3		
ISYS	311 Information Systems in Business (ISYS 105)	3		
QUALITY AND SYSTEMS IMPROVEMENT CONCENTRATION – 9 Credits Required				
STQM	311 Continuous Improvement Tools (none)	3		
STQM	351 Quality Control for Management (STQM 260)	3		
	Directed Elective (see advisor)	3		
GEOGRAPHIC INFORMATION SYSTEMS/CONCENTRATION – 9 Credits Required				
GISC	225 Principles of GIS (none)	3		
GISC	282 Geographic Information Systems 2 (GISC 225)	3		
GISC	382 GIS Data Analysis and Specialization (GISC 282)	3		
DIRECTED CONCENTRATION – 9 Credits Required				
	Directed Elective (see advisor)	3		
	Directed Elective (see advisor)	3		
	Directed Elective (see advisor)	3		
NOTICE REGARDING WITHDRAWAL, RE-ADMISSION AND INTERRUPTION OF STUDIES				
Students who return to the university after an interrupted enrollment (not including summer semester) must normally meet the requirements of the curriculum which are in effect at the time of their return, not the requirements which were in effect when they were originally admitted.				
Advising notes:				
FSUS 100 requirement satisfied by _____				
Global Consciousness requirement satisfied by _____				
Race, Ethnicity, Gender requirement satisfied by _____				

SUGGESTED SEMESTER BY SEMESTER COURSE COMPLETION

Fall Semester		FIRST YEAR		CrHrs		Grade	
ENGL 150	English 1			3			
COMM	105 Interpersonal Comm or 121 Fund of Public Speaking			3			
MATH 115	Intermediate Algebra (if not needed, sub Gen Ed Elec)			3			
PSYC 150	Intro to Psychology			3			
	Cultural Enrichment Elective			3			
	TOTAL			15			

Spring Semester		FIRST YEAR		CrHrs		Grade	
ENGL	211 Ind. and Career Writing OR 250 English 2			3			
COMM 221	Small Group Decision Making			3			
MATH 122	Math Analysis for Business			3			
ECON 221	Principles of Macroeconomics			3			
	Scientific Understanding w/lab			4			
	TOTAL			16			

Fall Semester		SECOND YEAR		CrHrs		Grade	
ENGL	311 Adv. Technical Writing OR 325 Adv. Bus. Writing			3			
ACCT 201	Principles of Accounting 1			3			
PHIL 216	Introduction to Ethics			3			
ECON 222	Principles of Microeconomics			3			
STQM 200	Introduction to Data Mining			3			
	TOTAL			15			

Spring Semester		SECOND YEAR		CrHrs		Grade	
ISYS 200	Database Design and Implementation			3			
ACCT 202	Principles of Accounting 2			3			
PHIL 217	Introduction to Logic			3			
STQM 260	Introduction to Statistics			3			
STQM 285	Foundations for Business Analytics			3			
	TOTAL			15			

Fall Semester		THIRD YEAR		CrHrs		Grade	
MKTG 321	Principles of Marketing			3			
FINC 322	Financial Management 1			3			
MGMT 301	Applied Management			3			
STQM 322	Statistical Inference			3			
STQM 342	Data Mining Tools			3			
	TOTAL			15			

Spring Semester		THIRD YEAR		CrHrs		Grade	
BLAW 321	Contracts and Sales			3			
ISYS 321	Business Information Systems			3			
MGMT 370	Quality/Operations Management			3			
STQM 380	Data Mining Processes			3			
	BDA Concentration Elective			3			
	TOTAL			15			

Fall Semester		FOURTH YEAR		CrHrs		Grade	
ISYS 411	Project Management			3			
STQM 341	Management Science			3			
STQM 450	Data Warehouse Structure, Design and Query			3			
	Internship/Directed elective			3			
	BDA Concentration Elective			3			
	TOTAL			15			

Spring Semester		FOURTH YEAR		CrHrs		Grade	
BUSN 499	Integrating Experience			3			
	Cultural Enrichment Elective			3			
	Scientific Understanding Elective			3-4			
STQM 460	Data Query, Analysis, and Reporting			3			
	BDA Concentration Elective			3			
	TOTAL			15-16			

ADDITIONAL INFORMATION:
See front of sheet for notations regarding:

1. Prerequisites
2. Graduation requirements
3. Interrupted studies – re-admission
4. Advising notes

TOTAL HOURS REQUIRED 121-122

PROPOSED SHEET/SEQUENCING **Ferris State University - College of Business** **FORM D**
BACHELOR OF SCIENCE DEGREE IN BUSINESS – BUSINESS DATA ANALYTICS - 121/122 credits

NAME: _____

ID#: _____

Required	Course Title - Prerequisites Shown in Brackets ()	Crs	Gr	Gr Pt
COMMUNICATION COMPETENCE - 15 Credits Required				
COMM	105 Interpersonal Communication OR 121 Fund of Public Speaking (none)	3		
COMM	221 Small Group Decision Making (none)	3		
ENGL	150 English 1 (ENGL 074 w/C- or better or ACT 14 or SAT 370)	3		
ENGL	250 English 2 (ENGL 150 w/C- or better)	3		
ENGL	325 Advanced Business Writing (ENGL 250 or 211 w/grade of C or better)	3		
SCIENTIFIC UNDERSTANDING – 7-8 Credits Required				
Consult the Ferris website: www.ferris.edu/units/academics/science/courses.html for approved courses.				
	Scientific Understanding	4		
	Scientific Understanding	3-4		
QUANTITATIVE SKILLS – 6 Credits Required				
MATH	115 Intermediate Algebra (MATH 110 w/C- or better, or 19 on ACT or 460 on SAT) If MATH ACT score is 24+, substitute a general education elective.	3		
MATH	122 Math Analysis for Business (MATH 115 w/C- or better or ACT 24 or SAT 560)	3		
CULTURAL ENRICHMENT – 9 Credits Required, one at 200-level or above.				
Consult the Ferris website: www.ferris.edu/units/academics/education/courses.html for approved courses.				
	Cultural Enrichment Elective	3		
	Cultural Enrichment Elective	3		
PHIL	216 Introduction to Ethics	3		
SOCIAL AWARENESS – 9 Credits Required*				
**ECON	221 Principles of Macroeconomics 1 (MATH 110 w/C- or better or 19 ACT or SAT of 460)	3		
**ECON	222 Principles of Microeconomics 2 (ECON 221)	3		
**PSYC	150 Introduction to Psychology (ACT 17 READ or Verbal 430 SAT or READ 106 w/C or better)	3		
COLLEGE OF BUSINESS/ADDITIONAL GENERAL EDUCATION – 3 Credits Required				
PHIL	217 Introduction to Logic	3		
BUSINESS CORE - 30 Credits Required				
ACCT	201 Principles of Accounting 1 (MATH 110 w/C- or better or 19ACT or 460SAT)	3		
ACCT	202 Principles of Accounting 2 (ACCT 201 with a grade of C- or better)	3		
BLAW	321 Contracts and Sales (None)	3		
BUSN	499 Integrating Experience (FINC 322 or MGMT 350, MGMT 370, MKTG 321, Sr. status)	3		
FINC	322 Financial Mgmt 1 (ACCT 202, Math 115 or 116 or 117 or MATH ACT 24)	3		
ISYS	321 Business Information Systems (ACCT 202, MKTG 321, and MGMT 301)	3		
MGMT	301 Applied Management (none)	3		
MGMT	370 Quality/Operations Management (Soph Standing or Instructor Permit)	3		
MKTG	321 Principles of Marketing (Sophomore standing)	3		
STOM	260 Intro to Statistics (MATH 115, 116, 120, 126, 130, 132, or 135 with a C- or better or 24 on ACT or 560 on SAT)	3		

* Global consciousness requirement must be met either through Cultural Enrichment, Social Awareness, General Education or major courses.
 ** Courses meet the Social Awareness requirements.

Note: A 2.00 cumulative GPA is required in the major, concentration, business core and overall for completion of the Business Data Analytics degree.
 Effective Summer 2010

Required	Course Title - Prerequisites Shown in Brackets ()	Crs	Gr	Gr Pt
BUSINESS DATA ANALYTICS MAJOR COURSES – 33 Credits Required				
ISYS	200 Database Design and Implementation (ISYS 105)	3		
ISYS	411 Project Management (none)	3		
STOM	270 Introduction to Data Mining (STOM 260 w/C- or better)	3		
STOM	285 Foundations for Business Analytics (MATH 122 w/C- or better, or instructor permission)	3		
STOM	322 Statistical Inference (STOM 260 w/C- or better)	3		
STOM	341 Management Science (STOM 260 w/C- or better)	3		
STOM	342 Data Mining Tools (STOM 270 w/C- or better or instructor permission)	3		
STOM	380 Data Mining Processes (STOM 342 w- or better or instructor permission)	3		
STOM	450 Data Warehouse Structure, Design, and Query (ISYS 200 w/C- or better or instructor permission)	3		
STOM	460 Data Query, Analysis, and Reporting (STOM 450 w/C- or better or instructor permission)	3		
	Internship (HIGHLY RECOMMENDED) OR Directed Elective (see advisor)	3		
CHOOSE ONE OF THE FOLLOWING CONCENTRATIONS				
INFORMATION SECURITY AND INTELLIGENCE CONCENTRATION – 9 Credits Required				
ISIN	300 Link and Visual Analysis (none)	3		
ISIN	301 Data Intelligence and Competitive Theory (ISIN 220, ISYS 200)	3		
	Dir Elec or STOM 360 Risk Analysis & Strat (STOM 260 w/C- or better)	3		
MARKETING ANALYTICS CONCENTRATION – 9 Credits Required				
MKTG	378 Marketing Data Analysis (MKTG 321 and STOM 260)	3		
MKTG	425 Marketing Research (MKTG 321 and STOM 260)	3		
	Directed Elective (see advisor)	3		
BUSINESS INFORMATION SYSTEMS CONCENTRATION – 9 Credits Required				
ISYS	202 Principles of Information Systems (ISYS 105)	3		
ISYS	303 Systems Analysis Methods (ISYS 200)	3		
ISYS	311 Information Systems in Business (ISYS 105)	3		
QUALITY AND SYSTEMS IMPROVEMENT CONCENTRATION – 9 Credits Required				
STOM	311 Continuous Improvement Tools (none)	3		
STOM	351 Quality Control for Management (STOM 260)	3		
	Directed Elective (see advisor)	3		
GEOGRAPHIC INFORMATION SYSTEMS CONCENTRATION – 9 Credits Required				
GISC	225 Principles of GIS (none)	3		
GISC	282 Geographic Information Systems 2 (GISC 225)	3		
GISC	382 GIS Data Analysis and Specialization (GISC 282)	3		
DIRECTED CONCENTRATION – 9 Credits Required				
	Directed Elective (see advisor)	3		
	Directed Elective (see advisor)	3		
	Directed Elective (see advisor)	3		
NOTICE REGARDING WITHDRAWAL, RE-ADMISSION AND INTERRUPTION OF STUDIES				
Students who return to the university after an interrupted enrollment (not including summer semester) must normally meet the requirements of the curriculum which are in effect at the time of their return, not the requirements which were in effect when they were originally admitted.				

Advising notes:
 FSUS 100 requirement satisfied by _____
 Global Consciousness requirement satisfied by _____
 Race, Ethnicity, Gender requirement satisfied by _____

SUGGESTED SEMESTER BY SEMESTER COURSE COMPLETION

Fall Semester		FIRST YEAR		CrHrs	Grade
ENGL 150	English 1			3	
COMM	105 Interpersonal Comm or 121 Fund of Public Speaking			3	
MATH 115	Intermediate Algebra (if not needed, sub Gen Ed Elec)			3	
PSYC 150	Intro to Psychology			3	
	Cultural Enrichment Elective			3	
TOTAL				15	

Spring Semester		FIRST YEAR		CrHrs	Grade
ENGL 250	English 2			3	
COMM 221	Small Group Decision Making			3	
MATH 122	Math Analysis for Business			3	
ECON 221	Principles of Macroeconomics			3	
STQM 260	Introduction to Statistics			3	
TOTAL				15	

Fall Semester		SECOND YEAR		CrHrs	Grade
ENGL 325	Advanced Business Writing			3	
ACCT 201	Principles of Accounting 1			3	
PHIL 216	Introduction to Ethics			3	
ECON 222	Principles of Microeconomics			3	
STQM 322	Inferential Statistics			3	
TOTAL				15	

Spring Semester		SECOND YEAR		CrHrs	Grade
ISYS 200	Database Design and Implementation			3	
ACCT 202	Principles of Accounting 2			3	
PHIL 217	Introduction to Logic			3	
STQM 270	Introduction to Data Mining			3	
STQM 285	Foundations for Business Analytics			3	
TOTAL				15	

Fall Semester		THIRD YEAR		CrHrs	Grade
MKTG 321	Principles of Marketing			3	
FINC 322	Financial Management 1			3	
MGMT 301	Applied Management			3	
	Scientific Understanding w/lab			4	
STQM 342	Data Mining Tools			3	
TOTAL				16	

Spring Semester		THIRD YEAR		CrHrs	Grade
BLAW 321	Contracts and Sales			3	
ISYS 321	Business Information Systems			3	
MGMT 370	Quality/Operations Management			3	
STQM 380	Data Mining Processes			3	
	BDA Concentration Elective			3	
TOTAL				15	

Fall Semester		FOURTH YEAR		CrHrs	Grade
ISYS 411	Project Management			3	
STQM 341	Management Science			3	
STQM 450	Data Warehouse Structure, Design and Query			3	
	Internship/Directed elective or STQM 360			3	
	BDA Concentration Elective			3	
TOTAL				15	

Spring Semester		FOURTH YEAR		CrHrs	Grade
BUSN 499	Integrating Experience			3	
	Cultural Enrichment Elective			3	
	Scientific Understanding Elective			3-4	
STQM 460	Data Query, Analysis, and Reporting			3	
	BDA Concentration Elective			3	
TOTAL				15-16	

ADDITIONAL INFORMATION:
See front of sheet for notations regarding:

5. Prerequisites
6. Graduation requirements
7. Interrupted studies – re-admission
8. Advising notes

TOTAL HOURS REQUIRED 121-122

CCC Proposal Log

Proposal Number	Proposal Title	Department	Date Received	Date Decided	CCC Decision & Vote	Proposal Status
05	Minor Cleanup - Statistics Courses and Business Data Analytics Course Check sheet	Marketing	10/23/09	11/06/09	4 - support; 1 - support with concerns; 0 - do not support. Concern: For the ISI concentration on the check sheet, ISIN 220 Visual Analysis- Investigations has been renumbered and renamed to ISIN 300 Link and Visual Analysis. Shows correctly in Banner but not yet in the online catalog. <i>Corrected</i>	<i>Dept had not been notified of this change</i>
04	Proposal AY2009-2010 #04 Minor Course Cleanup - PRBL341	Marketing	10/23/09	11/06/09	5 - support; 0 - support with concerns; 0 - do not support	
03	Name Change - Advertising Certificate to Advertising/Integrated Marketing Communications Certificate	Marketing	10/23/09	11/06/09	4 - support; 1 - support with concerns; 0 - do not support. Concern: The certificate outcomes and assessments should either be (a) defined or (b) updated to match the change	
02	Minor Cleanup - Retailing Certificate	Marketing	10/23/09	11/06/09	4 - support; 1 - support with concerns; 0 - do not support. Concern: The certificate outcomes and assessments should either be (a) defined or (b) updated to match the change Support (4 in favor, 2 support with concern, 0 opposed) Concerns are as follows:	
01	Update to INTB320	Management	10/06/09	10/20/09	Concern #1: The "Proposal Summary" on Form A should be clearer so that other reviewers in the Curriculum Review Process have a better understanding as to why this proposal is being brought forward. It should be noted that while this proposal reflects minor change to an existing class and the instructor has chosen to make formal curriculum changes to keep the class current, this proposal is not intended to be a tedious administrative activity. Perhaps a paragraph containing information similar to the following should be added: "This Proposal's main focus is to clean up the course description so that the University catalogue will have accurate information reflecting the current state of the course. As a by-product of the course description cleanup, a Form E was created that complies with the University's needs. (The Form E includes course outcomes and assessments.) It should be noted that there is no old Form E. (It is believed that Form E's came into existence in 1993 when terms were converted to semesters and this class was around before that time under a different name.)" Concern #2: The Form E outcomes should explicitly state "international" or "in country" and international." For example, three of the outcomes could be revised to read as follows: o Comprehension: Discusses and explains international transportation, trade terms, and payment. o Application: Demonstrates and reports on selection mode of international transportation, payment and the terms of trade to be selected.	Completed