

Undergraduate Academic Council Minutes April 23, 2009

The Undergraduate Academic Council voted electronically on April 23, 2009 to amend the November 20, 2008 minutes. The amended minutes were approved unanimously.

Thos voting were: Dr. Jeff Spurlock, Ms. Sheila Bennett, Mr. Jim Davis, Dr. Hank Findley, Dr. Rebecca Jacobson, Dr. Judy McCarley, Dr. Cindy McCoy, Dr. Rich Millard, Dr. James Ortego, Dr. Steve Ramroop, Dr. Jim Ryan, Ms. Donna Schubert, Mr. Chris Shaffer, Dr. Fred Westfall.

Minutes of the Troy University Undergraduate Academic Council

November 20, 2008. Amended April 23, 2009

Call to order

Chairman Dr. Spurlock called the meeting to order at 3:30 p.m. and called the council roll.

Voting Members Present: Dr. Jeff Spurlock-Chairman, Ms. Sheila Bennett, Mr. James Davis, Dr. Thomas Dunn,

Dr. Joseph Fielding, Dr. Hank Findley, Dr. Becky Jacobson, Dr. Cindy McCoy, Dr. Richard Millard, Dr. James Ortego, Ms. Donna Schubert, Mr. Chris Shaffer, Dr. Patrice Williams, Traci Roberts (proxy for Dr. Isabelle Warren), Dr. Fred Westfall (proxy)

Voting Members Absent: Dr. Marion Parker, Dr. Steve Ramroop, Dr. Dewey Todd

Non-Voting Members Present: Dr. Hal Fulmer, Dr. Amanda Diggs, Dr. Bill Richardson

Non-Members Absent: Dr. Damon Andrew, Dr. Dianne Barron, Dr. Alan Belsches,

Dr. Maryjo Cochran, Dr. John Dew, Dr. Deb Gearhart, Dr. Don Hines, Dr. Earl Ingram, Dr. Lance Tatum,

Mrs. Tamera Jones, Dr. Ken LaBrant, Ms. Vicki Miles, Dr. Curtis Porter,

Mr. Buddy Starling, Dr. Henry Stewart.

Guests present: Dr. Larry Blocher, Dr. Glenn Cohen, Dr. Ed Pappanostos

Approval of agenda

The agenda was approved by acclamation.

Approval of minutes of Oct meeting

Dr. Hank Findley moved to accept email minutes from 10-23-08

Mr. Jim Davis 2nd and the minutes were approved by acclamation

Computer Science

Bill Richardson and Ron Seehan presented the proposals for computer science. Hank Findley moved to accept the proposal shown below. Chris Shafer seconded. The motion passed.

1. Remove the following courses from the course inventory
 - a. CS 2244 (3) Computer Programming I
 - b. CS 2260 (3) Computer Programming II
 - c. CS 2261 (3) Foundations of Computer Science Concepts
 - d. CS 2262 (3) Business Systems Programming
 - e. CS 3339 (3) Fundamentals of Object-Oriented Programming
 - f. CS 3357 (3) Logical Structures of Computer Design

2. Create the following new courses:
 - **CS 22xx Computer Science I (3)** An introduction to the theory and development aspects of a high-level programming language. The course covers programming methodologies, control structures, predefined and user defined functions, input/output streams, control structures, logical expressions, enumeration, repetition, multidimensional array and string manipulation, structures, searching, sorting techniques, and advanced input/output. Program analysis, design, development, and testing are emphasized. *Prerequisite: MTH 1112*
 - **CS 2xxx Computer Science II (3)** A continuation of Computer Science I to include advanced programming techniques including classes and data abstractions, inheritance and composition, pointers, virtual functions, overloading, exception handling, and recursion. Students analyze, design, implement, and test complex programs. *Prerequisite: CS 2xxx Computer Science I*
 - **CS 33XX Foundations of Computer Science (3)** A broad perspective of computer science concepts intended as preparation for more in-depth coverage in higher-level courses. Topics include machine and assembly language programming, computer system organization and operation, logic circuits, finite-state diagrams and programming language grammar, Boolean algebra, and circuit design considerations. *Prerequisite: CS 22xx Computer Science I.*
 - **CS 33XX Business Systems Programming (3)** The study and application of a business-oriented programming language. Students apply a structured, multiphase program development process that features a series of steps involving understanding of problems, formal problem definition, design methodologies, program specification, and file definition as applied to business processing systems. The course includes the study and application of the following concepts: structured design methodology, divisions, arithmetic and intrinsic functions, decisions structures and logical

control structures, iterative processes, case structure, error capture, batch processing, file manipulation, table manipulation, and interactive structures. *Prerequisite: CS 2xxx Computer Science II*

- **CS 33XX Concepts of Object Oriented Programming I (3)** Provides students the opportunity to gain experience and training in an additional high level language. The course focuses on advanced topics including classes, objects, interfaces, applications, encapsulation, exceptions, multithreading, graphics, exception handling, files, and streaming. *Prerequisite: CS 22XX Computer Science II.*
 - **CS 33XX Concepts of Object Oriented Programming II (3)** The conceptual framework for object-oriented programming and systems. Topics include classes, data hiding, modularity, inheritance, and reusable code presented through the use of some object-oriented language. *Prerequisite: CS 33XX Concepts of Object Oriented Programming I.*
3. Amend the following course prerequisites as shown:
- CS 3323 - Complete prerequisite list should be: CS 22XX Computer Science II, MTH 1125, 2215.
 - CS 3325 - Complete prerequisite list should be: MTH 1125
 - CS 3330 - Complete prerequisite list should be: CS 22XX Computer Science II, MTH 2201, 2215.
 - CS 3365 - Complete prerequisite list should be: CS 33XX Foundations of Computer Science
 - CS 3372 - Complete prerequisite list should be: CS 3323 or 3330
 - CS 4443 - Complete prerequisite list should be: CS 3323 or 3330
 - CS 4445 - Complete prerequisite list should be: CS 33XX Foundations of Computer Science
 - CS 4448 - Complete prerequisite list should be: CS 3323 or 3330
 - CS 4451 - Complete prerequisite list should be: CS 3323 or 3330
 - ~~CS 4461 - Complete prerequisite list should be: CS 3332~~ — **See attached amendment.**
4. Change the course name for CS 4401 to Advanced Artificial Intelligence.
5. Amend the Computer Science Program as follows:

See attached amendment.

Area III

~~MTH 1125 (4) Calculus I, in lieu of MTH 1110~~

~~Select a four hour course/lab combination from the following:~~

~~CHM 1142 (3) General Chemistry I~~

~~CHM L142 (1) General Chemistry I Lab~~

~~PHY 2252 (3) General Physics I~~

~~PHY L252 (1) General Physics I Lab~~

Select remaining Area III courses as shown in the General Studies section of this catalog.

Area V Requirements

CS 22XX (3) Computer Science I
~~MTH 1126 (4) Calculus II~~
TROY 1101 (1) University Orientation

Required Courses:

CS 22XX (3) Computer Science II
CS 3323 (3) Data Structures
CS 3329 (3) Analysis of Algorithms
CS 3332 (3) Software Engineering I
CS 3365 (3) Intro to Computer Organization and Architectures
CS 3370 (3) Nature of Programming Languages
CS 3372 (3) Formal Languages and the Theory of Computation
~~CS 33XX (3) Concepts of Object Oriented Programming II~~
CS 33XX (3) Foundations of Computer Science
CS 4420 (3) Introduction to Database Systems
CS 4445 (3) Data Communication and Networking
CS 4448 (3) Operating Systems
~~MTH 2210 (3) Applied Statistics~~
MTH 2215 (3) Applied Discrete Mathematics

Select two of the following:

~~CS 33XX (3) Business Systems Programming~~
CS 3325 (3) Operations Research
CS 3331 (3) Fundamentals of Artificial Intelligence
~~CS 33XX (3) Concepts of Object Oriented Programming II (JAVA II)~~
CS 4401 (3) Advanced Artificial Intelligence
CS 4443 (3) Web Based Software Development
CS 4447 (3) Systems Analysis and Design
CS 4451 (3) Computer Security and Reliability
CS 4461 (3) Software Engineering II
CS 4462 (3) Special Topics in Object Oriented Technology
CS 4495 (3) Special Topics in Computer Science

Biological Sciences

Dr. Glenn Cohen presented the rationale for changes in cell biology course offerings.

Following discussion, Hal Fulmer moved to lay the proposal on the table to allow the executive committee to prepare a written list of motions contained within the proposal. The proposal will be taken from the table for an electronic vote following the meeting.

English

Jim Davis presented the proposals for English. Donna Schubert moved to accept the proposal shown below. Tom Dunn seconded. The motion passed.

1. Create the following new course: ENG 44XX Selected Topics in Creative Writing (3) Study of a topic of special interest and importance not covered in regularly offered courses in creative writing. *Prerequisite: Six semester hours of 2000-level English courses; ENG 3351 or permission of instruction. Note: may be taken for credit no more than two times.*
2. Amend the English Minor, Creative Writing to include ENG 44XX Selected Topics in Creative Writing in the "select 15 hour" elective block.

Management

Hank Findley presented the proposals for management. Donna Schubert moved to accept the proposal shown below. Richard Millard seconded. The motion passed.

1. Create the following new course: MGT 44XX Employment Law (3 hours) A study of the major employment laws and related regulations as they apply to the private sector. *Prerequisite: MGT 3371.*
2. Amend the course description for MGT 4473 Labor Law and Collective Bargaining to read as follows (no changes are made to prerequisites): A study of course decisions, national labor, administrative regulations, and procedures of the National Labor Relations Board that guide effective approaches to collective bargaining and labor relations.
3. Amend the management major to read as follows (Note: the following listing includes both additions and deletions to the major):

MANAGEMENT MAJOR

B.S./B.A. in Business Administration degree with a major in management (MGT)

Concentrations in general management, hospitality and tourism, human resource management, and production and operations management

MGT 4472	(3)	Organization Behavior
MGT 3375	(3)	Human Resource Management
MGT 4479	(3)	Management Seminar (required for all concentrations except Hospitality and Tourism)
		<i>or</i>
MGT 44XX	(3)	Employment Law (Hospitality and Tourism concentration)

Select one concentration:

• **General Management Concentration**

Select six of the following courses:

MGT 4460	(3)	Introduction to Project Management
MGT 4471	(3)	Organizational Development
MGT 4473	(3)	Labor Law and Collective Bargaining
MGT 4474	(3)	Business and Society
MGT 4475	(3)	Small Business Management
MGT 4480	(3)	Technology and Innovation Management
MGT 4481	(3)	Staffing
MGT 4482	(3)	Managing Health, Safety and Diversity
MGT 4483	(3)	Human Resources Development
MGT 4485	(3)	Performance Appraisal and Compensation
MGT 4490	(3)	Total Quality Management
MKT 3363	(3)	Transportation Management
MKT 4463	(3)	Retailing
MKT 4465	(3)	Business Logistics
QM 3342	(3)	Introduction to Operations Research

Select one upper level business or business law course elective.

• **Hospitality and Tourism Concentration**

MGT 3372	(3)	Hospitality Management
MGT 3374	(3)	Hotel Management
MGT 3377	(3)	Domestic and International Tourism
MGT 4466	(3)	Restaurant Management

Select three of the following courses:

BUS 4499	(3)	Internship
MGT 4465	(3)	Food and Beverage Service
MGT 4475	(3)	Small Business Management
MGT 4481	(3)	Staffing
MKT 4487	(3)	Hospitality Marketing

• **Human Resource Management Concentration**

Select six of the following courses:

BUS 4499	(3)	Internship
MGT 4471	(3)	Organizational Development
MGT 4473	(3)	Labor Law and Collective Bargaining
MGT 4481	(3)	Staffing
MGT 4482	(3)	Managing Health, Safety and Diversity
MGT 4483	(3)	Human Resource Development
MGT 4485	(3)	Performance Appraisal and Compensation
MGT 4496	(3)	Selected Topics in Human Resources
MGT 44XX	(3)	Employment Law

Select one upper level business or business law course elective.

• **Production and Operations Management Concentration**

Select six of the following courses:

BUS 4499	(3)	Faculty approved Internship
ECO 3357	(3)	Managerial Economics
MGT 4460	(3)	Introduction to Project Management
MGT 4465	(3)	Business Logistics
MGT 4480	(3)	Technology and Innovation Management
MGT 4490	(3)	Total Quality Management
QM 3342	(3)	Introduction to Operations Research

Select one upper level business or business law course elective.

Supply Chain Management Concentration

Offered at Troy campus only

MKT 4465	(3)	Business Logistics
MGT 4451	(3)	Supply Chain Management
MGT 4452	(3)	Supply Chain Management Information Systems
MGT 4453	(3)	Supply Chain Strategy

Select two courses:

BUS 4499	(3)	Internship
MKT 3363	(3)	Transportation Management
MGT 4460	(3)	Introduction to Project Management
MGT 4490	(3)	Total Quality Management
QM 3342	(3)	Introduction to Operations Research

Select one upper level business or business law course elective.

4. Create the restaurant/culinary specialization within the B.A.S. in Resources and Technology Management for non-Alabama campuses only as shown in red below.

RESOURCES AND TECHNOLOGY MANAGEMENT, B.A.S. IN

...

- Fire Science
- Military Science
- **Restaurant/Culinary (non-Alabama campuses only)**
- Other Approved Technical Areas
 For a student to qualify for the transfer of technical credit from a regionally accredited community college or technical school, he or she must have a minimum of 18 semester hours of transferable credit (in the same technical field) with a minimum overall grade point average of 2.0 on a 4.0 scale.

Select option 1 or option 2:

Option 1: Restaurant/Culinary Specialization (18 hours) (non-Alabama sites only)
 MGT 3371 (3) Principles of Management
 MGT 3372 (3) Hospitality Management
 MGT 4465 (3) Food and Beverage Service
 MGT 4466 (3) Restaurant Management
Select six additional semester hours of upper level business electives.

Option 2: Select 12-18 hours of upper level business or technology electives

Risk Management and Insurance

Ed Pappanostos presented the proposals for risk management and insurance. Hank Findley moved to accept the proposal shown below. Chris Shafer seconded. The motion passed.

- a. Remove RMI 4460 from the Risk Management and Insurance Major curriculum but not from the University's course inventory.
- b. Create the following new course: RMI 44XX Insurance Ethics and Professionalism (3) A detailed discussion of risk management and insurance with specific emphasis placed on each of the nine canons that forms the Code of Professional Ethics. Topics include but are not limited to risk, risk management, risk assessment, control and financing, insurance markets and competition, legal foundations of insurance, and policy analysis. Prerequisite: RMI 3355 or permission of department chair.
- c. Add RMI 44XX Insurance Ethics and Professionalism to the requirements for the Risk Management and Insurance Major.
- d. Create the following new course: RMI 44XX London Internship (3). The London Internship provides students with first-hand exposure to the center of the Excess & Surplus Lines market, Lloyd's. See the RMI department for specific requirements.

- e. Create the following new course: RMI 44XX Summer Internship (3) The Summer Internship provides students with the opportunity to gain real-world insurance experience as a summer employee of an insurance company. Students are interviewed and selected by the individual insurance companies. See the RMI department for specific requirements.

Accounting

Jim Ryan presented the proposals for risk management and insurance. Jim Ryan moved to accept the proposal shown below. Hank Findley seconded. The motion passed.

1. Amend the following course descriptions to read as follows:
 - ACT4494 - Analysis of the federal income tax laws and regulations for individual taxpayers. Primary emphasis is on the individual components of personal and business income and the allowable deductions. The taxation of gains and losses on property and capital-asset transactions will be introduced.
 - ACT4497 - Auditing theory and procedures as applied to fraud prevention, detection, and investigation.
 - ACT4491 - An analysis of the theory and applications of accounting for business combinations, partnerships, and foreign currency transactions and translations.
 - ACT 3394 - Analysis of governmental and not-for-profit accounting issues including the preparation and use of budgets, records, and statements.
 - ACT 3395- An analysis of issues dealing with cost accounting and cost management in the global economy from the viewpoint of management, including calculating product costs and period expenses, cost systems for accumulating and managing costs, analyzing cost behavior for tactical decisions, introduction to activity-based costing, ethical principles for management accountants, measuring the costs of quality, and preparing the master budget.
 - ACT 4496 - In depth analysis of advanced cost accounting issues from the viewpoint of management, including cost management systems, target costing, life cycle costing, and measures of performance, including the Balanced Scorecard.

2. Change the course title of ACT4498 to Fraud Examination

3. Amend the degree requirements for the accounting major by revising the “select one course” listing in the Business Administration core to read as follows:

Select one course with permission of faculty adviser: (Accounting majors must take ACT 4435)

ACT 4435	(3)	International Accounting
ECO 4451	(3)	International Trade
FIN 4435	(3)	International Banking and Finance
MGT 4478	(3)	International Management
MKT 4468	(3)	International Marketing

4. Amend the Accounting Major by replacing “Select one upper level business or business law course elective” with “Select ACT 4435 International Accounting from the international course electives.”

5. Require that accounting majors earn a grade of C or better in all accounting courses by

- amending the “Additional Specialized Requirements” under B.S./B.A. Business Administration Degree Requirements to include the following text: “Accounting majors must earn a grade of C or better in all accounting courses (prefix ACT)” and by

- including the following text in the course descriptions of all ACT prefix courses: “Accounting majors must complete this course with a grade of C or better.”
6. Change the prerequisite for ACT 3392 as follows: Prerequisite: ACT 3391 with a grade of C or better.

Two-hour free elective clarification in general studies for the Sorrell College of Business

Hank Findley presented a memorandum from Dr. Don Hines, Dean of the Sorrell College of Business, regarding clarification of free elective requirements in the undergraduate catalog. Dr. Hal Fulmer and Ms. Donna Schubert will work with Dr. Hines to ensure clarity. Chris Shafer moved to accept the proposal. Jim Davis seconded. The motion passed.

Foreign Language

Jeff Spurlock introduced the proposals for foreign language. Hank Findley moved to accept the proposal shown below. Chris Shafer seconded. The motion passed.

1. Change the course title of FLN 3333 to Seminar in World Languages.
2. Change the course description of FLN 3333 to “A survey of the world’s major language families with emphasis on the Indo-European languages and the evolution of Latin and Romance languages, coupled with intensive review in the student’s major language in preparation for external oral and writing proficiency examinations.”
3. Change the repeat options for SPN 4450 to read “May be repeated once for a total of six credit hours.”

Music

Larry Blocher presented the proposals for music. Jeff Spurlock moved to accept the proposal shown below. Hank Findley seconded. The motion passed.

1. Create the following new courses:
 - a. MUI 44XX Audio Principles and Techniques II (3 hours) This course is an in-depth examination of audio recording. The curriculum will cover remote and studio recording techniques. The related areas of sound reinforcement and post-production will be covered at length. Students will apply advanced microphone techniques, utilize digital editing and plugins, and prepare a recording project portfolio.
 - b. MUI 44XX Marketing of Recorded Music (2 hours). Examination of the process of studio production, manufacturing, promotion and distribution of contemporary recordings. Record release programs for independent and major label-controlled products are analyzed. Prerequisite: MUS 2230
 - c. MUI 44XX Music Merchandising (2 hours). Examination of the production, marketing, merchandising and distribution of musical products in the current music marketplace. Prerequisite: MUS 2230
 - d. MUS 22XX World Music Cultures (2) A survey of diverse musical traditions from around the globe. Musical cultures are approached anthropologically, and each culture will be examined to understand how music is entwined with human experience.
 - e. MUS 44XX Marching Band Techniques (3 hours) This course is designed to provide students with tools and techniques to successfully administer a high school marching band program, select and rehearse music, write and rehearse drill, and examine various marching

techniques. Also included are intensive work with the Pyware Drill Design software and experiences with writing drill and creating working frameworks for marching bands.

- f. MUS 44XX Modern Popular Music (2 hours) This course surveys the development of popular music in America and abroad, with emphasis on processes in popular music as an important element of culture, examining both the music and the cultural, social, economic, technological, and political conditions surrounding the music. The objective of this course is to develop competency in the elements of music and the history of its popular form in order to critically analyze current popular music trends.
 - g. MUS 44XX Vocal Jazz Ensemble (1) Select choral group (auditioned from members of the auditioned Concert Chorale) devoted to performance of contemporary acapella choral pieces (focusing on the mid 20th – early 21st century) with an emphasis on highly stylized and advanced vocal jazz. Limited to 12 members (3 per voice part.) Prerequisites: audition, sophomore status or above.
2. In the music major,
- a. Substitute MUS 22XX World Music Cultures (2) for MUS 3301 as the required music course in AREA II of general studies.
 - b. Add MUS 3301 (2) to the music core, increasing the core from 36 hours to 38 hours

Dr. Larry Blocher then presented a rationale for reconfiguring the three-course MUS 3301-3302-3303 sequence into a two-course MUS 33XX Survey of Western Music History I and MUS 33XX Survey of Western Music History II sequence. Hank Findley moved to accept the proposal. Richard Millard seconded. Following discussion, Hank Findley and Richard Millard moved to lay the proposal on the table to allow the music faculty/curriculum committee time formally affirm the proposal. If affirmed by the faculty committee, the proposal will be taken from the table for an electronic vote following the meeting.

Dr. Fulmer gave a brief appreciation speech to all who had worked hard on the Undergraduate Academic Council this past year.

Dr. Spurlock adjourned the meeting at 4:55 P.M.

Amendment ____ date ____

Review of these minutes by the College of Arts and Sciences in April, 2009 indicated errors and omissions in computer science.

I. Including course numbers for new courses provided by University Records, the Computer Science Program should read as follows:

COMPUTER SCIENCE PROGRAM (48 hours)

Specialized General Studies Requirements

Area III

MTH 1125 (4) Calculus I, in lieu of MTH 1110

Select a four hour course/lab combination from the following: (Students must complete an 8 hour sequence in chemistry or physics. Also see Area V Requirements.)

CHM 1142 (3) General Chemistry I

CHM L142 (1) General Chemistry I Lab

PHY 2252 (3) General Physics I

PHY L252 (1) General Physics I Lab

Select remaining Area III courses as shown in the General Studies section of this catalog.

Area V Requirements

CS 2250 (3) Computer Science I

MTH 1126 (4) Calculus II

TROY 1101 (1) University Orientation

Select a four hour course/lab combination from the following: (Students must complete an 8 hour sequence in chemistry or physics. Also see Area III.)

CHM 1143 (3) General Chemistry II

CHM L143 (1) General Chemistry II Lab

PHY 2253 (3) General Physics II

PHY L253 (1) General Physics II Lab

Required Courses

CS 2255 (3) Computer Science II

CS 3310 (3) Foundations of Computer Science

CS 3323 (3) Data Structures

CS 3329 (3) Analysis of Algorithms

CS 3332 (3) Software Engineering I

CS 3360 (3) Concepts of Object-Oriented Programming I

CS 3365 (3) Introduction to Computer Organization and Architectures

CS 3370 (3) Nature of Programming Languages

CS 3372 (3) Formal Languages and the Theory of Computation

CS 4420 (3) Introduction to Database Systems
CS 4445 (3) Data Communication and Networking
CS 4448 (3) Operating Systems
MTH 2210 (3) Applied Statistics
MTH 2215 (3) Applied Discrete Mathematics

Select two of the following:

CS 3320 (3) Business Systems Programming
CS 3325 (3) Operations Research
CS 3331 (3) Fundamentals of Artificial Intelligence
CS 3361 (3) Concepts of Objected Oriented Programming II
CS 4401 (3) Advanced Artificial Intelligence
CS 4443 (3) Web Based Software Development
CS 4447 (3) Systems Analysis and Design
CS 4451 (3) Computer Security and Reliability
CS 4461 (3) Software Engineering II
CS 4462 (3) Special Topics in Object-Oriented Technology
CS 4495 (3) Special Topics in Computer Science

II. CS 2244 should be replaced with the new course CS 2250 Computer Science I in the following:

- Computer Science Minor
- Computer Science, Applied Major
- Computer Science A.S. Degree
- Surveying and Geomatics Science Major (formerly titled Geomatics Major)

III. CS 2260 should be replaced with the new course CS 2255 Computer Science II in the following:

- Computer Science Minor
- Computer Science, Applied Major
- Computer Science A.S. Degree
- Geographic Information Systems Minor - Customizing the ArcView GIS Interface Bundle
- Geographic Information Systems Minor - GIS Database Development Bundle

IV. CS 3357 should be replaced with the new course CS 3365 in the following

- Computer Science A.S. Degree

V. The (only) prerequisite for CS 4461 should be CS 3332 Software Engineering I.

VI. The course description for CS 4462 should be amended to read “This course is a continuation of CS 3361” rather than “... a continuation of CS 3339.”

VII. The (only) prerequisite for CS 4462 should be CS 3361 Concepts of Object-Oriented Programming

VIII. In the Computer Science A.S. degree, CS 3310 Foundations of Computer Science should replace CS 2261, which was removed from the course inventory.

IX. In the Computer Science Applied Major, CS 3320 Business Systems Programming should replace CS 2262, which was removed from the course inventory.

X. In the Geographic Information Systems Minor - Customizing the ArcView GIS Interface Bundle, CS 3360 Concepts of Object Oriented Programming I should replace CS 3339, which was removed from the course inventory.