Florida Institute of Technology

ADDING A NEW MAJOR OR MINOR TO THE CURRICULUM

Please provide the following information when requesting a new major or minor (program or option) to be added to the curriculum. Only new majors, minors, and options are assigned a new code and print on the diploma. The code will be assigned by the Office of the Registrar and a copy of this form will be sent to the appropriate department.

COLLEGE of Business

DEPARTMENT Business

SITE(S) Melbourne

CAMPUS(S) Melbourne

PROGRAM TO BE ADDED ☐ Major or ☐ Minor or ☐ Option for __________________________ (existing degree program)

NOTE: Only Majors, Minors, and Options receive new codes and print on the diploma.

☐ Associate of Arts (A.A.) ☐ Associate of Science (A.S.)
☐ Bachelor of Arts (B.A.) ☐ Bachelor of Science (B.S.)
☐ Executive Master of Business Administration (E.M.B.A.)
☐ Master of Arts (M.A.) ☐ Master of Business Administration (M.B.A.)
☐ Master of Arts In Teaching (M.A.T) ☐ Master of Public Administration (M.P.A.)
☐ Master of Education (M.Ed) ☐ Master of Science (M.S.)
☐ Master of Science In Aviation (M.S.A.)
☐ Professional Master of Business Administration (P.M.B.A.)

OTHER ADDITION TO THE CURRICULUM (NOTE: Only Majors, Minors and Options receive new codes and print on the diploma.)

☐ Concentration or ☐ Specialization for __________________________ (existing degree program)

PROGRAM TITLE Restricted to 30 characters, including spaces

Information Systems

TERM TO BE INITIATED Fall 2010

ADVISER FOR NEW PROGRAM Dr. Annie Becker

ROUTING APPROVALS: 1) Department head/program chair and college dean approve and sign form; 2) Provost approves business plan of the program in terms of financial viability and impact on the university mission, and signs form; 3) Undergraduate Curriculum Committee or Graduate Council approves academics and signs form; 4) Provost gives final approval of program, signs form and forwards to Office of the Registrar.

1) __________________________ Date 4/20/10
   Department Head/Program Chair

2) __________________________ Date 4/23/10
   Dean of Associate Dean

3) __________________________ Date 4/30/10
   Chair, Graduate Council
   OR

4) __________________________ Date
   Chair, Undergraduate Curriculum Committee

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CIPC Code __________________________
Operator Initials/Date __________________________

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MEMORANDUM

TO: Undergraduate Curriculum Committee
FROM: Alexander R. Vamosi, Associate Dean COB
Through Robert Niebuhr, Dean COB
DATE: Tuesday, April 20, 2010
SUBJECT: Adding a New Major --- B.S. in Information Systems

The College of Business seeks approval from the Undergraduate Curriculum Committee to combine e-Commerce Technology and Information Management degree programs into a single unified and updated program called Information Systems. As part of the update we also request approval for five new courses, and changes to graduation requirements for three existing courses.

JUSTIFICATION

A review of the existing information systems program in the college has suggested combining the existing undergraduate majors in e-Commerce Technology and Information Management into one major, to be called "Information Systems." Most business schools have an information systems degree program at the undergraduate level and there are also a substantial number of both master's and doctoral IS-related programs in colleges of business. A 2007 study of the AACSB schools found 306 out of 428 AACSB accredited programs had an undergraduate IS program (CIS, MIS, ITM, etc.).

The Information Systems (IS) guidelines set forth by the Association for Computing Machinery (ACM) and American Information Systems (AIS) recognize that in addition to technical knowledge IS professionals must possess skills that are typically developed through a rigorous curriculum in business.

"Information systems professionals work with information technology and must have sound technical knowledge of computers, communications, and software. Since they operate within organizations and with organizational systems, they must also understand organizations and the functions within organizations (administration, accounting, finance, marketing, operations, human resources, and so forth). They must understand concepts and processes for achieving
organizational goals with information technology. In addition to sound technical knowledge and organizational understanding, they must possess systems thinking, the ability to analyze business problems, communication skills, and teamwork skills (Overby 2006; cited in Topi et al., 2010, pp. 13-14.)

Degree programs in Information Systems also need to be evaluated in meeting market demand given the rapid changes taking place in the field. Significant changes in the last ten years have occurred in both technology and industry practices. For example, globalization of IS, proliferation of Web technologies, increase in complex database systems, and focus on information assurance.

Information Systems programs, from a national perspective, have seen enrollments steadily decline. This trend is being addressed through curriculum revisions that align IS knowledge and skill sets with market demand. A well-structured IS curriculum can support multiple career tracks. This is accomplished by providing foundation and higher-level IS knowledge and skills through core courses supported by electives in a career track. In our case, the career tracks are database systems and information assurance.

CURRICULUM

ACM and AIS recommend periodic updates of information systems curricula to reflect changes in information systems and technology. The proposed major in Information Systems will offer students a curriculum that provides depth of knowledge, hands-on use of technology, and real world business applications through course projects. Moreover, each course will emphasize information systems from a global business perspective.

Every student in the college of business is required to complete a foundational course in management information systems. Majors in IS will have to complete four additional core courses, as well as three restricted electives in information systems. In addition, majors can take career-track courses in database systems and information assurance. Students who wish to emphasize database systems should take BUS 4521 (Advanced Database Systems) and BUS 4522 (Database Administration). An emphasis in information assurance can be achieved by taking BUS 3517 (Information Assurance) and BUS 4532 (Information Security Analysis).

The table below outlines the main requirements in the IS program (the attached flowchart shows the complete program).

<table>
<thead>
<tr>
<th>Foundation Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 3504 – Management Information Systems</td>
</tr>
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<table>
<thead>
<tr>
<th>Core Courses</th>
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</thead>
<tbody>
<tr>
<td>BUS 3511 - Systems Analysis and Design (new)</td>
</tr>
<tr>
<td>BUS 3514 – Intro to Operating Systems and Networks</td>
</tr>
</tbody>
</table>
BUS 3521 – Introduction to Database Systems (new)
BUS 4508 – Web-Based Technologies

Restricted Electives (IS) at least 2 from 4000 level
BUS 3500 – Human Computer Interaction
BUS 3517 – Information Assurance
BUS 4516 – Global Strategic Management of Technology

BUS 4521 - Advanced Database Systems (new)
BUS 4522 - Database Administration (new)
BUS 4532 – Information Security Analysis (new)
BUS 45xx – Project Mgt in Information Technology (future course to be developed)

LIST OF ATTACHMENTS

- Adding New Major or Minor to the Curriculum
- Adding a New Course to the Curriculum (5)
  - These have been catalog approved by Liz Fox
- Syllabus (5)
  - Systems Analysis and Design
  - Introduction to Database Systems
  - Advanced Database Systems
  - Database Administration
  - Information Security Management
- Change in Graduation Requirements (3)
  - Information Assurance (BUS 3517)
  - Web-Based Technologies (BUS 4508)
  - Global Strategic Mgt of Technology (BUS 4516)

---

# Florida Tech College of Business

## Information Systems (121 hrs)

### Flow Chart (7XXX)

### Name

#### FRESHMAN YEAR - Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Grade</th>
<th>Credits</th>
<th>Semester</th>
<th>Substitute</th>
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<td>BUS 1611</td>
<td>Global Business Perspectives</td>
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<td>BUS 2203</td>
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<td>COM 1102</td>
<td>Writing About Literature</td>
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<td>BUS 1601</td>
<td>Computer Applications for Bus</td>
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### Spring

#### JUNIOR YEAR - Fall

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<td>BUS 5401</td>
<td>Corporate Finance</td>
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<td>BUS 5501</td>
<td>Management Principles</td>
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<td>BUS 5611</td>
<td>Systems Analysis and Design</td>
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<th>Grade</th>
<th>Credits</th>
<th>Semester</th>
<th>Substitute</th>
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<tr>
<td>BUS 5521</td>
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### EXTRA:

### SOPHOMORE YEAR - Fall

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<td>BUS 2703</td>
<td>Statistics For Business</td>
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<td>COM 2224</td>
<td>Business &amp; Professional Writing</td>
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<tr>
<td>HUM 2051</td>
<td>Civilization 1</td>
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### Spring

#### SENIOR YEAR - Fall

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<th>Course</th>
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<td>BUS 4000</td>
<td>Research 2 (Q)</td>
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<td>BUS 4002</td>
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<td>BUS 4783</td>
<td>Practicum Planning</td>
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</table>

### Computer Literacy Exam Scores:


### Computer Literacy Exam Dates:


### Faculty Adviser

<table>
<thead>
<tr>
<th>Name</th>
<th>Signature</th>
<th>Date</th>
</tr>
</thead>
</table>

### IM Electives:

- BUS 3500; BUS 3510; BUS 3512; BUS 3518; BUS 4516; BUS 4518; CSE courses subject to approval

### Associate Dean

<table>
<thead>
<tr>
<th>Name</th>
<th>Signature</th>
<th>Date</th>
</tr>
</thead>
</table>

### Catalog Year 10-11

(formerly MIS-7467) 4/20/2010 11:42 AM
Florida Institute of Technology

ADDING A NEW COURSE TO THE CURRICULUM

This course is available for student registration only after the approval process has been completed.

SUBJECT   BUS   COURSE NO.   3511   CREDIT HOURS   3   TERM TO BE ADDED TO THE FILE   Fall 2010
(e.g., CSE)   (e.g., 1301)   (e.g., Lecture, Lab or Special Topics/Project)

CLASS HOURS   45/semester   LECTURE HOURS   CONTACT HOURS (CEU ONLY)

DEPARTMENT   College of Business
(e.g., Computer Sciences)

☐ COLLEGE OF AERONAUTICS – 23
☐ COLLEGE OF PSYCHOLOGY AND LIBERAL ARTS – 25
☐ NATHAN M. BISK COLLEGE OF BUSINESS – 24
☐ COLLEGE OF SCIENCE – 26
☐ COLLEGE OF ENGINEERING – 1
☐ EXTENDED STUDIES DIVISION/NATHAN M. BISK COLLEGE OF BUSINESS – 90

COMPUTER TITLE   Restricted to 25 characters, including spaces   Sys Analysis/Design

CATALOG TITLE   Systems Analysis and Design

CATALOG DESCRIPTION OF COURSE   Restricted to 350 characters, including spaces

Introduces and applies concepts, methods and tools for systems development life-cycle (SDLC) phases, planning, analysis, design, implementation and maintenance during the development of an information system. Emphasizes critical thinking and problem-solving as an applied approach to developing information systems.

In addition, please attach a course syllabus and/or more detailed description.

RESTRICTIONS   ☑ Prerequisite   BUS 3504   ☑ Corequisite   Course Number
☐ Prerequisite   Course Number   ☑ Corequisite   Course Number
☐ Prerequisite   Course Number   ☑ Corequisite   Course Number

ADDITIONAL RESTRICTION   (e.g., Major, Class Level, Department Head Approval)

If this course replaces a course currently offered in BANNER, please indicate old course information and the date/term the course may be removed from the system.

SUBJECT   Alpha Prefix (e.g., CSE)   COURSE NO.   (e.g., 1301)

APPROVALS: Upon completion of appropriate department approvals, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee for approval below and forward to Catalog Director.

Originator   4-20-2010   Chair, Graduate Council   Date

Department Head/Program Chair   4-20-1210   OR

Dean or Associate Dean   4-20-1010   Chair, Undergraduate Curriculum Committee   Date

CATALOG DIRECTOR

These changes/additions have been made for the University Catalog/policy management system and entered into the BANNER term named above.

Catalog Director   Date

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RGR-096-049
Systems Analysis and Design

Course Code          BUS 3511
Prerequisites        BUS 3504 Management Information Systems

Course Description
The course introduces concepts, methods, and tools for systems development lifecycle (SDLC) phases, planning, analysis, design, implementation, and maintenance, applied during the development of an information system. The course emphasizes critical thinking and problem-solving as an applied approach to developing information systems.

Course Objectives
After completing this course you will:

- Know the phases of the systems development lifecycle (SDLC).
- Use business tools to make a business case for systems development.
- Use data, process, and object modeling methods and tools to support systems analysis.
- Gather and translate system requirements into system architecture and effective designs.
- Know the different approaches to application development.
- Apply quality assurance and software engineering concepts to the SDLC.
- Demonstrate how to evaluate, plan, and implement software projects.

Candidate Topics

- Business case analysis (feasibility, strategic plan, project management).
- Requirements modeling (JAD, RAD, Agile methods, data flow diagrams, CASE tools).
- Systems project management tools (Gantt Charts, PERT/CPM).
- Object modeling (UML and class diagramming).
- Development strategies (Prototyping, cost-benefit analysis).
- Input, output, database design concepts.
- Human-computer interaction and user interface designs.
- Quality assurance and security issues.
- Application development (structured, object-oriented, agile).
- Testing, conversion, and documentation.

Assessment

- Assignments        20%
- Project            10%
- Exams I and II     40%
- Participation and Presentations 10%
- Final              20%

Total                      100%
**Suggested Textbooks**


or


**Proposed Course Schedule**

<table>
<thead>
<tr>
<th>Week 1</th>
<th>Introduction to Concepts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 2</td>
<td>Business Case Analysis</td>
</tr>
<tr>
<td>Week 4</td>
<td>Systems Project Management</td>
</tr>
<tr>
<td>Week 5-6</td>
<td>Requirements, Data, and Process Modeling</td>
</tr>
<tr>
<td>Week 7-8</td>
<td>Object Modeling</td>
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<tr>
<td>Week 9</td>
<td>Development Strategies</td>
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<tr>
<td>Week 10</td>
<td>User Interface Design</td>
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<tr>
<td>Week 11</td>
<td>Database Design</td>
</tr>
<tr>
<td>Week 12</td>
<td>Systems Architecture</td>
</tr>
<tr>
<td>Week 13</td>
<td>Quality Assurance, Testing, Security</td>
</tr>
<tr>
<td>Week 14</td>
<td>System Implementation</td>
</tr>
</tbody>
</table>
Florida Institute of Technology

ADDING A NEW COURSE TO THE CURRICULUM

This course is available for student registration only after the approval process has been completed.

SUBJECT BUS

COURSE NO. 3521

(Ex. 1301)

CREDIT HOURS 3

TERM TO BE ADDED TO THE FILE Fall 2010

CLASS HOURS 45/semester

LECTURE HOURS

LAB HOURS

CONTACT HOURS (CEU ONLY)

DEPARTMENT College of Business

(S.B., Computer Sciences)

SCHEDULE TYPE

(S.B., Lecture, Problem Set, Special Topics/Project)

☐ COLLEGE OF AERONAUTICS – 23

☐ COLLEGE OF PSYCHOLOGY AND LIBERAL ARTS – 25

☐ NATHAN M. BISK COLLEGE OF BUSINESS – 24

☐ COLLEGE OF SCIENCE – 26

☐ COLLEGE OF ENGINEERING – 1

☐ EXTENDED STUDIES DIVISION / NATHAN M. BISK COLLEGE OF BUSINESS – 90

COMPUTER TITLE Restricted to 25 characters, including spaces
Intro to DB Systems

CATALOG TITLE Introduction to Database Systems

CATALOG DESCRIPTION OF COURSE Restricted to 350 characters, including spaces
Introduces concepts, models and technologies for the design, implementation and management of database systems. Applies database technologies for real-world experience in designing and implementing database systems.

In addition, please attach a course syllabus and/or more detailed description.

REQUIREMENTS 

Prerequisite BUS 3511

Course Number

Corequisite

Course Number

GRADABLE TO BE ISSUED

A, B, C, D, F

A, B, C, D, F, CEU

CEU

S, U

P, F

Other

ADDITIONAL RESTRICTION

(E.B., Major, Class Level, Department Head Approval)

If this course replaces a course currently offered in BANNER, please indicate old course information and the date/term the course may be removed from the system.

SUBJECT Alpha Prefix (E.B., CSE)

COURSE NO. (E.B., 1301)

APPROVALS: Upon completion of appropriate department approvals, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee for approval below and forward to Catalog Director

Originator

Date 1-20-2010

Chair, Graduate Council

Date

Department Head/Program Chair

Date 4/20/2010

OR

Dean or Associate Dean

Date 4/10/10

Chair, Undergraduate Curriculum Committee

Date

CATALOG DIRECTOR

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Date

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Catalog Director

Date

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RG5-08-409
Introduction to Database Systems

Course Code          BUS 3521
Prerequisites        BUS 3511 Systems Analysis and Design

Course Description

This course introduces concepts, models, and technologies for the design, implementation, and management of database systems. The student applies database technologies for real-world experience in designing and implementing database systems.

Course Aims and Objectives

After completing this course you will:

- Understand how to design, implement, and manage a database system.
- Design a database system using modeling tools.
- Create and implement an information system using database technology.
- Understand and apply relational database concepts.
- Write SQL queries for data manipulation.
- Create a physical database objects.
- Know basics of database performance, concurrency, and recovery mechanisms.
- Describe object-oriented and distributed database systems.

Candidate Topics

- Database models (hierarchical, relational, network, object-oriented).
- Conceptual data models (Entity-Relationship Diagram (ERD), UML model).
- Normalization concepts and the role in database design.
- Relational algebraic operators.
- SQL language for data manipulation.
- Views and indexes.
- Transaction management and concurrency control.
- Query optimization and performance considerations.
- Distributed database systems.
- Text and multimedia database systems.
- Data warehousing and data mining concepts.

Assessment

- Assignments                     20%
- Project                         10%
- Exams I and II                 40%
- Participation                  10%
- Final                           20%

Suggested Text (options)
 Proposed Course Schedule

Week 1  Database Systems Concepts and Terminology
Week 2  Data Modeling
Week 3-4 Database Design and Normalization Concepts
Week 5  Database Implementation
Week 6-7 Relational Algebra and SQL query language for data manipulation
Week 8  SQL query language for data definitions and administration functions
Week 9  Views and Indexes
Week 10 Concurrency Control and Performance Tuning
Week 11 Data Mining and Warehousing
Week 12 Backup and Recovery
Week 13 Security, Privacy, Ethical Considerations
Week 14 Object-oriented, Multimedia, Distributed Database Systems
Florida Institute of Technology

ADDING A NEW COURSE TO THE CURRICULUM

This course is available for student registration only after the approval process has been completed.

**SUBJECT**  BUS  
(e.g., CS)  
(COURSE NO.  4 5 2 1  
(e.g., 1301)  
(CREDIT HOURS  3  
TERM TO BE ADDED TO THE FILE  Fall 2010  
(e.g., Fall 2010)

CLASS HOURS 45/semester  
LECTURE HOURS 45/semester  
LAB HOURS  
CONTACT HOURS (CEU ONLY)  

DEPARTMENT  Business  
(e.g., Computer Sciences)  
SCHEDULE TYPE  Lecture (A)  
(e.g., Lecture, Lab or Special Topics/Project)

☐ COLLEGE OF AERONAUTICS – 23  
☐ COLLEGE OF PSYCHOLOGY AND LIBERAL ARTS – 25  
☐ COLLEGE OF BUSINESS – 24  
☐ COLLEGE OF SCIENCE – 26  
☐ COLLEGE OF ENGINEERING – 1  
☐ EXTENDED STUDIES DIVISION / NATHAN M. BISK COLLEGE OF BUSINESS – 90

COMPUTER TITLE  Restricted to 25 characters, including spaces  
Adv Database Sys

CATALOG TITLE  Advanced Database Systems

CATALOG DESCRIPTION OF COURSE  Restricted to 350 characters, including spaces

Covers advanced topics in database management systems. Includes query processing and optimization strategies, security and privacy, data mining and warehousing, and emerging database technologies.

In addition, please attach a course syllabus and/or more detailed description.

| RESTRICIONS |  |
|-------------|  |
| ☑ Prerequisite  BUS 3521 |  |
| ☐ Corequisite | Course Number |
| ☐ Corequisite | Course Number |
| ☐ Corequisite | Course Number |
| ☐ Corequisite | Course Number |

GRADES TO BE ISSUED

☑ A, B, C, D, F  
☐ A, B, C, D, F, CEU  
☐ CEU  
☐ S, U  
☐ P, F  
☐ Other

ADDITIONAL RESTRICTION  
(e.g., Major, Class Level, Department Head Approval)

If this course replaces a course currently offered in BANNER, please indicate old course information and the date/term the course may be removed from the system.

**APPROVALS:** Upon completion of appropriate department approvals, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee for approval below and forward to Catalog Director.

**Originator**  
Sign  
Date  4-20-2010

**Chair, Graduate Council**  
Sign  
Date  4/20/2010

**Department Head/Program Chair**  
Sign  
Date  4/20/10

**Dean or Associate Dean**  
Sign  
Date

**Chair, Undergraduate Curriculum Committee**  
Sign  
Date

**CATALOG DIRECTOR**  
Sign  
Date

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- SCARRES  
- Operator Init.  
- Date  

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RGR-002-400
Advanced Database Systems

Course Code: BUS 4521
Prerequisite(s): BUS 3521 Intro to Database Systems

Course Descriptions

This course covers advanced topics in database management systems. Advanced topic areas include index structures, query processing and optimization strategies, database administration, security and privacy, data mining and warehousing, and emerging database technologies.

Aims and Objectives

After completing this course you will:

- Design and implement a database system using database development tools.
- Understand index structures and query optimization strategies.
- Know how database views can be used to manage complexity and promote security.
- Know the basics of database administration in the areas of physical storage, security, and performance tuning.
- Understand security and privacy issues of database systems.
- Know data mining and warehousing techniques.
- Understand the relationship between database and Web technologies.
- Identify emerging database technologies and information retrieval trends.

Candidate Topics

- SQL query structures and optimization strategies.
- Data modeling and physical design of complex database systems.
- Index structures and the impact on database performance.
- View constructs to manage database complexity and promote database security.
- Database administration for managing physical storage and enforcing security and privacy measures.
- Data mining and data warehousing for decision support.
- Integration of database and Web technologies.
- Emerging database trends for spatial and other complex systems.

Assessment

- Assignments: 20%
- Database Project: 10%
- Exams I and II: 40%
- Participation: 10%
- Final: 20%

Potential Text(s)

Potential Supplemental Materials:

SQL Server 8 Express Edition Software
Tutorial: SQL Server Management Studio (for SQL Server 8 Express Edition)

Oracle 10g Express Edition Software
Tutorial: Oracle Tutorial Express Edition

Proposed Course Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 1</td>
<td>Overview of Relational Database Design and Implementation</td>
</tr>
<tr>
<td>Week 2 – 3</td>
<td>SQL Query Language, Optimization Strategies and Performance Tuning Tools</td>
</tr>
<tr>
<td>Week 4</td>
<td>Data Modeling and Design of Complex Systems</td>
</tr>
<tr>
<td>Week 5 – 6</td>
<td>Index Structures and SQL Views</td>
</tr>
<tr>
<td>Week 7 – 9</td>
<td>Database Administration Tools and Techniques</td>
</tr>
<tr>
<td>Week 9 - 10</td>
<td>Database Security and Privacy</td>
</tr>
<tr>
<td>Week 11 – 12</td>
<td>OLAP, Data Mining, and Data Warehousing</td>
</tr>
<tr>
<td>Week 13 – 14</td>
<td>Web Technologies and Emerging Trends</td>
</tr>
<tr>
<td>Week 15</td>
<td>Project and Final Exam</td>
</tr>
</tbody>
</table>

Proposed Project

The project requires the use of relational database theory and technologies. The project will encompass the advanced topics in the course. It will be modeled using the entity-relationship diagram notation and designed by applying relational database theory. The project is implemented using a database system (e.g., Microsoft SQL Server, Oracle, MySQL or open source technologies). It will require complex query development and optimization and the use of indexes and views. The project will address popular and emerging technologies.

Proposed Assignments

Each topical area will have an assignment that requires critical thinking in the application of database technologies. Some assignments will be research-oriented (e.g., emerging trends) and others will require the use of database software in the implementation of a solution set.
This course is available for student registration only after the approval process has been completed.

SUBJECT BUS (e.g., CSE) COURSE NO. 4522 (e.g., 1301) CREDIT HOURS 3 TERM TO BE ADDED TO THE FILE Fall 2010

CLASS HOURS 45/semester LECTURE HOURS Lab HOURS CONTACT HOURS (CEU ONLY)

DEPARTMENT College of Business (e.g., Computer Science) SCHEDULE TYPE (e.g., Lecture, Lab or Special Topics/Project)

☐ COLLEGE OF AERONAUTICS – 23
☒ NATHAN M. BISK COLLEGE OF BUSINESS – 24
☐ COLLEGE OF ENGINEERING – 1

☐ COLLEGE OF PSYCHOLOGY AND LIBERAL ARTS – 25
☐ COLLEGE OF SCIENCE – 26
☐ EXTENDED STUDIES DIVISION / NATHAN M. BISK COLLEGE OF BUSINESS – 90

COMPUTER TITLE Restricted to 25 characters, including spaces DB Admin

CATALOG TITLE Database Administration

CATALOG DESCRIPTION OF COURSE Restricted to 350 characters, including spaces

Covers concepts, procedures and tools for implementing, maintaining and administering a database system. Uses technology as an applied approach to exploring database administrator roles and responsibilities.

In addition, please attach a course syllabus and/or more detailed description.

RESTRICTIONS ☒ Prerequisite BUS 3521
☐ Corequisite Course Number

GRADUES TO BE ISSUED ☒ A, B, C, D, F
☐ A, B, C, D, F, CEU
☐ CEU
☐ S, U
☐ P, F
☐ Other

ADDITIONAL RESTRICTION

If this course replaces a course currently offered in BANNER, please indicate old course information and the date/term the course may be removed from the system.

SUBJECT Alpha Prefix (e.g., CSE) COURSE NO. (e.g., 1301)

APPROVALS: Upon completion of appropriate department approvals, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee for approval below and forward to Catalog Director.

Origina Date
Chair, Graduate Council
Department Head/Program Chair Date
Dean or Associate Dean Date
Chair, Undergraduate Curriculum Committee Date

CATALOG DIRECTOR

These changes/additions have been made for the University Catalog/policy management system and entered into the BANNER term named above.

Catalog Director Date

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RGP-036-00
Database Administration

Course Code       BUS 4522
Prerequisites     BUS 3521 Introduction to Database Systems

Course Description

The course covers concepts, procedures, and tools for implementing, maintaining, and administering a database system. The course utilizes technology as an applied approach to exploring database administrator roles and responsibilities.

Course Objectives

After completing this course you will:

- Develop plans for performing administrative functions.
- Develop standards policies for database documentation.
- Know how to construct a database system.
- Know basic database functions in support of administrative tasks.
- Use database tools for evaluating performance.
- Know the roles and responsibilities of a database administrator.
- Identify the database server architecture.
- Use database tools for import and export of data or objects.
- Know database functions in support of security, backup, and recovery.

Candidate Topics

- Database architecture and data dictionary views.
- Creating instances and performing reinstallations.
- Table and data management.
- Index types and impact on performance.
- Database objects for security management.
- Query structures and performance monitoring.
- Proactive maintenance, backup, and recovery.
- Data mining and data warehousing.

Assessment

- Assignments          20%
- Project              10%
- Exams I and II       40%
- Participation and Presentations 10%
- Final                20%

100%
Suggested Textbooks (Options)


Proposed Course Schedule

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<thead>
<tr>
<th>Week</th>
<th>Topic</th>
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<tbody>
<tr>
<td>1</td>
<td>Introduction to Database Administration Concepts</td>
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<tr>
<td>2</td>
<td>Roles and Responsibilities of Database Administrator.</td>
</tr>
<tr>
<td>3</td>
<td>System Architecture</td>
</tr>
<tr>
<td>4-5</td>
<td>View, Indexes, and Constraints</td>
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<tr>
<td>6</td>
<td>Table Management</td>
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<tr>
<td>7-8</td>
<td>Query Optimization</td>
</tr>
<tr>
<td>9</td>
<td>Plans in Support of Administrative Functions</td>
</tr>
<tr>
<td>10</td>
<td>Storage Concepts</td>
</tr>
<tr>
<td>11</td>
<td>Performance Tuning and Monitoring</td>
</tr>
<tr>
<td>12</td>
<td>Import and Export Functions</td>
</tr>
<tr>
<td>13</td>
<td>Backup and Recovery</td>
</tr>
<tr>
<td>14</td>
<td>Security Management</td>
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**Florida Institute of Technology**

**ADDING A NEW COURSE TO THE CURRICULUM**

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<th>SUBJECT</th>
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|  | ☑ | ☑ | ☑ | ☑ |

| COMPUTER TITLE | Restricted to 25 characters, including spaces | Info Security Mgmt |  |
|---------------|-----------------------------------------------|--------------------|

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<td>Examines the theory, concepts and techniques involved in information security to meet specific business needs from an information system manager's perspective. Builds on knowledge of networks, operating systems and information assurance.</td>
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In addition, please attach a course syllabus and/or more detailed description.

<table>
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<tr>
<th>RESTRICTIONS</th>
<th>Prerequisite</th>
<th>BUS 3517</th>
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<td>☑ P, F</td>
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| SUBJECT | Alpha Prefix (e.g., CSE) | COURSE NO. (e.g., 1301) |  |
|---------|--------------------------|--------------------------|

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<td>Date</td>
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<th>Dean or Associate Dean</th>
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| REGISTRAR'S USE ONLY | SCAGRISE | SCADETIL | SCAPREQ | SCARRES | Operator Init | Date |  |
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</tbody>
</table>
Information Security Management

Course Code       BUS 4532
Prerequisite(s)   BUS 3517 Information Assurance

Course Descriptions

Examines theory, concepts, and techniques involved in information security to meet specific business needs as viewed from an information system manager's perspective. The course builds on knowledge of networks and operating systems.

Aims and Objectives

After completing this course you will be able to:

- Articulate the confidentiality, integrity, and availability (CIA) aspects information systems security, and the countermeasures used in their assurance.
- Be capable of producing security policies for a complex information systems implementation, and understand the role of manager in overseeing the security of information resources.
- Demonstrate how to secure networks, host computer systems, and other provisioned information resources.
- Conduct an evaluation of computer and network security alternatives.
- Create a business justification for security technology.
- Explain the role of law and procedures in managing security incidents.

Candidate Topics

- Organizations as legal entities with duties and responsibilities
- The functions of security policies
- Security standards, risk assessment, and risk management
- Security behavior and security conscientiousness
- Basic computer and network security analysis and techniques
- Cryptography (conceptual)
- Security operations
- Security management
- Forensics and incident management

Assessment

- Midterm                                      10%
- Lab Assignments (4 at 10% each)              40%
- Case Study (2 parts at 10% each)             20%
- Security Research Paper                      10%
- Participation & Attendance Questions        10%
- Final                                        100%
Potential Texts (both)


1. Introduction to information and computer security
2. Overview of cyber law
3. Security policies and procedures
4. Security behavior
5. Computer security UNIX/Linux/MAC-OS
6. Computer security Windows
7. Network security
8. Cryptography
9. Firewalls and firewall architecture
10. Security operations
11. Monitoring and intrusion detection
12. Forensics and incident handling
13. Security modeling
14. Security management
Florida Institute of Technology

CHANGING RESTRICTIONS
OR CREDITS IN A COURSE

The addition or removal of any restriction or change in credit hours in a course requires that this form, accompanied by any supporting documentation, be completed and approved as indicated below.

COLLEGE of Business

DEPARTMENT Business

REQUEST IS FOR CHANGE IN COURSE BUS 3517 Information Assurance

Prefix Number Course Title

TO BE INCLUDED IN 20_11_20_12 CATALOG AND EFFECTIVE IN THE BANNER SYSTEM FOR Fall 2011 TERM

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE? ☐ Yes ☒ No If yes, current credits requested credits

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE? ☒ Yes ☐ No If yes, please check all that apply:

☐ Add ☐ Remove ☒ Prerequisite ☐ Corequisite BUS 3514 Prefix Number

☐ Add ☐ Remove ☒ Prerequisite ☐ Corequisite BUS 3504 Prefix Number

☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite

☐ Add ☐ Remove ☐ Other Restrictions ☐ Yes ☐ No If yes, please list below:

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

APPROVALS: Upon completion of appropriate department approvals, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee for approval below and forward to Catalog Director.

1) ___________________________ Date 4) ___________________________ Date

Originator Chair, Graduate Council

Chair, Undergraduate Curriculum Committee

2) ___________________________ Date OR

Department Head/Program Chair

3) ___________________________ Date

Dean or Associate Dean

CATALOG DIRECTOR’S USE ONLY

SCACRS ________________________ SCADTL ________________________ SCAPREQ ________________________

SCABASE ________________________ SCARRES ________________________ Operator Initials ________________________ Date ________________________

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RGR-036-1009
Florida Institute of Technology

CHANGING RESTRICTIONS
OR CREDITS IN A COURSE

The addition or removal of any restriction or change in credit hours in a course requires that this form,
accompanied by any supporting documentation, be completed and approved as indicated below.

COLLEGE of Business

DEPARTMENT Business

REQUEST IS FOR CHANGE IN COURSE BUS 4508 Web-Based Technologies

Prefix

Number

Course Title

TO BE INCLUDED IN 2011/2012 CATALOG AND EFFECTIVE IN THE BANNER SYSTEM FOR Fall 2011 TERM

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE? □ Yes X No If yes, current credits _______ requested credits _______

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE? □ Yes X No If yes, please check all that apply:

☐ Add ☐ Remove ☒ Prerequisite ☐ Corequisite BUS 3511 Prefix Number

☐ Add ☐ Remove ☒ Prerequisite ☐ Corequisite BUS 3514 Prefix Number

☐ Add ☐ Remove ☒ Prerequisite ☐ Corequisite BUS 3504 Prefix Number

☐ Add ☐ Remove ☐ Other Restrictions ☐ Yes ☐ No If yes, please list below:

________________________________________________________________________

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APPROVALS: Upon completion of appropriate department approvals, submit form to Chair, Graduate Council,
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1) ___________________________ 4) ___________________________

Date Date

2) ___________________________

Date

OR

3) ___________________________

Date

Chair, Graduate Council Date

Chair, Undergraduate Curriculum Committee Date

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SCABASE ______________ SCARRES __________________________

Operator Initials Date

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COLLEGE of Business

DEPARTMENT Business

REQUEST IS FOR CHANGE IN COURSE

BUS 4516 Global Strategic Mgmt of Technology

Prefix Number

Course Title

TO BE INCLUDED IN 2011 CATALOG AND EFFECTIVE IN THE BANNER SYSTEM FOR FALL 2011 TERM

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE? ☐ Yes ☑ No If yes, current credits ______ requested credits ______

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE? ☑ Yes ☐ No If yes, please check all that apply:

☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite BUS 3511 and ☐ or

☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite BUS 3516 and ☐ or

☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite BUS 3517 and ☐ or

☐ Add ☐ Remove ☐ Other Restrictions ☑ Yes ☐ No If yes, please list below:

Requires senior standing.

APPROVALS: Upon completion of appropriate department approvals, submit form to Chair, Graduate Council,
or Chair, Undergraduate Curriculum Committee for approval below and forward to Catalog Director.

1) 

Originator 

Date 4-20-2010

Chair, Graduate Council Date

2) 

Department Head/Program Chair

Date 4-30-10

OR

3) 

Dean or Associate Dean

Date 4-30-10

Chair, Undergraduate Curriculum Committee Date

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