REQUEST FOR NEW COURSE

1. General Information.

a. Submitted by the College of: Gatton College of Business & Economics Today's Date: 02/20/2010

b. Department/Division: Analytics (formerly Decision Science & Information Systems)

c. Contact person name: Ram Pakath Email: pakath@uky.edu Phone: 7-4319

d. Requested Effective Date: ☐ Semester following approval OR ☒ Specific Term/Year[1]: Fall 2010

2. Designation and Description of Proposed Course.

a. Prefix and Number: AN 324

b. Full Title: Data Base Management

c. Transcript Title (if full title is more than 40 characters): Data Base Management

d. To be Cross-Listed[2] with (Prefix and Number): _____

e. Courses must be described by at least one of the meeting patterns below. Include number of actual contact hours[3] for each meeting pattern type.

3.0 Lecture _____ Laboratory[1] _____ Recitation _____ Discussion _____ Indep. Study

_____ Clinical _____ Colloquium _____ Practicum _____ Research _____ Residency

_____ Seminar _____ Studio _____ Other – Please explain: _____

f. Identify a grading system: ☒ Letter (A, B, C, etc.) ☐ Pass/Fail

g. Number of credits: 3.0

h. Is this course repeatable for additional credit? YES ☐ NO ☒

If YES: Maximum number of credit hours: _____

If YES: Will this course allow multiple registrations during the same semester? YES ☐ NO ☒

i. Course Description for Bulletin: Databases are the backbone of information systems. Almost every modern organization uses database technology to support its routine operations such as inventory management, customer relationship management, human resources management, and electronic commerce. Database technology is also the foundation of data-driven decision-making that has permeated the business world. With the proliferation of data-driven decision-making and end-user computing, understanding database technologies is necessary for business students to remain competent in the modern business environment.

j. Prerequisites, if any: Completion of all college pre-major requirements and admission to Upper Division in Business & Economics. Non B&E Upper Division undergraduate students may be enrolled with the consent of the instructor.

k. Will this course also be offered through Distance Learning? YES[4] ☐ NO ☒

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[1] Courses are typically made effective for the semester following approval. No course will be made effective until all approvals are received.

[2] The chair of the cross-listing department must sign off on the Signature Routing Log.

[3] In general, undergraduate courses are developed on the principle that one semester hour of credit represents one hour of classroom meeting per week for a semester, exclusive of any laboratory meeting. Laboratory meeting, generally, represents at least two hours per week for a semester for one credit hour. (from *SR 5.2.1*)

[4] You must *also* submit the Distance Learning Form in order for the proposed course to be considered for DL delivery.

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I. Supplementary teaching component, if any: ☐ Community-Based Experience ☐ Service Learning ☐ Both

3. Will this course be taught off campus? YES ☐ NO ☒

4. Frequency of Course Offering.

a. Course will be offered (check all that apply): ☐ Fall ☒ Spring ☐ Summer

b. Will the course be offered every year? YES ☒ NO ☐

If NO, explain: _____

5. Are facilities and personnel necessary for the proposed new course available? YES ☒ NO ☐

If NO, explain: _____

6. What enrollment (per section per semester) may reasonably be expected? 15

7. Anticipated Student Demand.

a. Will this course serve students primarily within the degree program? YES ☒ NO ☐

b. Will it be of interest to a significant number of students outside the degree pgm? YES ☐ NO ☐

If YES, explain: _____

8. Check the category most applicable to this course:

☒ Traditional – Offered in Corresponding Departments at Universities Elsewhere

☐ Relatively New – Now Being Widely Established

☐ Not Yet Found in Many (or Any) Other Universities

9. Course Relationship to Program(s).

a. Is this course part of a proposed new program? YES ☒ NO ☐

If YES, name the proposed new program: Analytics (formerly, Decision Science and Information Systems)

b. Will this course be a new requirement[5] for ANY program? YES ☒ NO ☐

If YES[5], list affected programs: Analytics (formerly, Decision Science and Information Systems)

10. Information to be Placed on Syllabus.

a. Is the course 400G or 500? YES ☐ NO ☒

If YES, the *differentiation for undergraduate and graduate students must be included* in the information required in ***10.b***. You must include: (i) identification of additional assignments by the graduate students; and/or (ii) establishment of different grading criteria in the course for graduate students. (See *SR 3.1.4.*)

b. ☒ The syllabus, including course description, student learning outcomes, and grading policies (and 400G-/500-level grading differentiation if applicable, from ***10.a*** above) are attached.

[5] In order to change a program, a program change form must also be submitted.

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Signature Routing Log

General Information:

Course Prefix and Number: AN 324

Proposal Contact Person Name: Ram Pakath Phone: 7-4319 Email: pakath@uky.edu

INSTRUCTIONS:

Identify the groups or individuals reviewing the proposal; note the date of approval; offer a contact person for each entry; and obtain signature of person authorized to report approval.

Internal College Approvals and Course Cross-listing Approvals:

Reviewing Group	Date Approved	Contact Person (name/phone/email)	Signature
School of Mgmt	2/2010	Scott Kelley / 7 / 3425 / SKELLEY @uky.edu	Scott W Kelley
Undergrad. Studies	4/23/10	Nancy Johnson / 7 / 2976 / nbj@uky.edu	
Gatton Faculty	4/30/10	Mark Hackbart / 7 / 3552 / m.hackbart@uky.edu	
		/ /	
		/ /	

External-to-College Approvals:

Council	Date Approved	Signature	Approval of Revision[6]
Undergraduate Council	10/26/2010	Sharon Gill Digitally signed by Sharon Gill DN: cn=Sharon Gill, o=Undergraduate Education, ou=Undergraduate Council, email=sgill@uky.edu, c=US Date: 2010.10.28 11:53:12 -04'00'	
Graduate Council			
Health Care Colleges Council			
Senate Council Approval		University Senate Approval	

Comments:

[6] Councils use this space to indicate approval of revisions made subsequent to that council's approval, if deemed necessary by the revising council.

AN 324-001: DATA BASE MANAGEMENT
Department Prefix: DSIS; College Prefix: B&E
Spring 2011
Monday and Wednesday 2:00pm - 3:15pm
BE 201

Instructor: Dr. De Liu (de.liu@uky.edu)
Office: B&E 455Y
Phone: (859) 257-1142
Office Hours: MW 3:30-5:30pm, or by appointment.

COURSE DESCRIPTION:

Databases are the backbone of information systems. Almost every modern organization uses database technology to support its routine operations such as inventory management, customer relationship management, human resources management, and electronic commerce. Database technology is also the foundation of data-driven decision-making that has permeated the business world. With the proliferation of data-driven decision-making and end-user computing, understanding database technologies is necessary for business students to remain competent in the modern business environment.

COURSE GOALS:

This course introduces the student to the design, implementation, and use of database systems to develop practical skills in storing, managing and retrieving information. Students will develop both desktop and web-based database applications using the popular personal database management system, MS Access, and the open-source product, MySQL.

STUDENT LEARNING OUTCOMES:

After taking this class, students are expected to realize the following learning outcomes:

- Be familiar with Relational Database concepts
- Be proficient in SQL (i.e., Structured Query Language)
- Be able to model business environments with E-R (i.e., Entity-Relationship) diagrams
- Be able to carry out a logical database design
- Be proficient with the open-source database product MySQL
- Know the basics of Microsoft Access
- Know the basics of PHP and web-based database applications

TEXTBOOK & SOFTWARE

Recommended Text:

1. Bryan Syverson and Joel Murach. Murach's SQL Server 2005 for Developers. Mike Murach & Associates (ISBN:1-890774-39-1, 978-1-890774-39-4)

2. Jeffrey A. Hoffer, Mary B. Prescott and Fred R. McFadden, Modern Database Management, 8th edition, Pearson Prentice Hall (ISBN: 0-13-221211-0)

Software:

- MySQL (available through SWEB)
- PhpMyAdmin (available through SWEB)
- PHP + Apache web server (available through SWEB)
- Microsoft Access

GRADING

Midterm Exam:	25%
Final Exam:	25%
Project (2):	**20%, 10% each**
Homework (11):	**30%,** 3% each. Only **10** will be counted, the lowest one will be automatically dropped.

Final letter grade is given according to the following (**no curve**)

90 -105%:	A
80 - 89%:	B
70 - 79%:	C
60 - 70%:	D
0 - 60%:	E

HOMEWORK

Homework due dates are listed in our course schedule. I generally prefer electronic submissions. Please submit your homework files to the designated assignment folder on Blackboard before the class meeting time on the due date. Your submission time is clocked by Blackboard. **If you turn in your homework late, you will receive a zero grade** for the homework. But I may still give comments on late submissions.

Name your file(s) in the following fashion:

Lastname_Firstname_[your file name].file extension

For example, "*Doe_John_hw5.sql*" and "*Doe_John_hw5summarySQL.doc*." DO NOT use

special characters other than blank and underscore in file names.

Once you submit files successfully, you should see an "!" for your homework grade (meaning the homework is waiting to be graded). You can submit multiple files for an assignment. But you must submit them all at once. Blackboard prevents you from submitting additional files once you have submitted. In case you have submitted but want to append more files, send them directly to me in email.

I expect you to do all homework assignments individually. You may discuss homework problems with fellow students. But copying others' homework is strictly forbidden and will be punished (receiving a zero for that homework at the minimum). In case of difficulty, you're welcome to email me for help. You are also welcome to drop by my office during the office hour or schedule an appointment. Please refer to Section 6.3.0—Academic Offenses and Procedures in the Rules of the University Senate

I post your homework grades on Blackboard, usually within one week of the due date. Homework is graded on a scale of 0 to 10. If you get 10, you will receive full 3% credits. If you get 9, you will receive 2.7% credits, and so on. I may give extra credits to exceptional work.

EXAMS

Missing Exams: If you miss an exam, without valid cause, you will be given a zero. However, if you are sick or have other legitimate reasons (according to University policy), you must contact me as soon as is reasonable to solicit a makeup exam.

Exam Re-grades: In general I will not re-grade an exam except there are obvious mistakes in grading. If you do require a re-grade, you must submit your request within one week after receiving the exam grade.

Scholastic Dishonesty: Students who violate University rules on scholastic dishonesty are subject to disciplinary penalties, including the possibility of failure in the course and/or dismissal from the University. Because dishonesty harms the individual, all students, and the integrity of the University, policies on scholastic dishonesty will be strictly enforced. Please refer to Section 6.3.0—Academic Offenses and Procedures in the Rules of the University Senate.

DISABILITIES

If you have a documented disability that requires academic accommodations, please see me as soon as possible during scheduled office hours. In order to receive accommodations in this course, you must provide me with a Letter of Accommodation from the Disability Resource Center (Room 2, Alumni Gym, 257-2754, email address jkarnes@email.uky.edu) for coordination of campus disability services available to students with disabilities.

TEAM PROJECTS

Team projects are important part of learning experiences in this course. The purpose of team projects is to encourage collaboration, coordination, and communication among team members. Team projects give you an opportunity to apply what we learn in class. Team projects also give you a chance to learn from your peers.

Team projects are evaluated by your peers in the class (50%) and by the instructor (50%). Your peers will evaluate your team performance based on your team presentation along the lines of *validity*, *presentation style*, and *creativity*.

The instructor will grade your team project assignment based on the presentation and submitted files.

Each team consists of 2-3 members. While in general every team member receives the same credit, those who lack contribution (as reflected in within-group peer evaluation) may receive partial credit.

CLASSROOM POLICY

Please turn off any device such as Cell Phones, Beepers, CD/MP3 players that will cause class disruptions. Browsing, checking emails, and messaging during the class are discouraged in the classroom. Please turn off your messenger and email software. Penalties for violation could be as severe as an E in the course, depending on my assessment of the situation.

No comment is considered "bad" as long as it makes a constructive class contribution. I believe that a good learning environment is that one feels free to raise questions. A sense of humor is always welcome!

CORRESPONDENCE

Provide a valid email address to Blackboard and check your email inbox often. Important messages may be delivered to you through this email, such as change to the course schedule, additional information about homework, and exam location and dates.

TENTATIVE SCHEDULE

Wk	Topic	Assignments Due
1	Ch 1: Introduction	**Readings**
2	Ch 7: Introduction to SQL	
		Due: HW 1
3		
		Due: HW 2
4	Ch 8: Advanced SQL	
5		**Due: HW 3**
6	Ch 3: E-R model	**Due: HW 4**
7	Ch 5: Database Design	**Due: HW 5**
8		
	Guest speaker	**Due: HW 6**
9	Mid-term Review	
	Mid-term Exam (in class)	
10	Intro to Microsoft Access	
11		**Due: HW 7**
	Web-based Apps: HTML	
12		**Due: HW 8 (Access)**
	Web-based Apps: PHP	
13	**TeamProj 1 Presentations**	
	Web-based Apps: DB+PHP	**Due: HW 9 (PHP+HTML)**
14		
15		**Due: HW 10 (PHP+DB)**
16	Meet for Team Project 2	**Due: HW 11 (PHP+DB)**
	TeamProj 2 Presentations	
	Final exam: take home	