

REQUEST FOR COURSE CHANGE (MAJOR AND MINOR)

Complete 1a – 1f & 2a – 2c. Fill out the remainder of the form as applicable for items being changed.

1. General Information.	
a. Submitted by the College of: <u>Gatton College of Business & Economics</u>	Today's Date: <u>02/20/2010</u>
b. Department/Division: <u>Decision Science & Information Systems</u>	
c. Is there a change in "ownership" of the course? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	
If YES, what college/department will offer the course instead? <u>Gatton College/Analytics</u>	
d. What type of change is being proposed? <input checked="" type="checkbox"/> Major <input type="checkbox"/> Minor ¹ (place cursor here for minor change definition)	
e. Contact Person Name: <u>Dr. Ram Pakath</u>	Email: <u>pakath@uky.edu</u> Phone: <u>257-4319</u>
f. Requested Effective Date: <input type="checkbox"/> Semester Following Approval OR <input checked="" type="checkbox"/> Specific Term ² : <u>Fall 2010</u>	
2. Designation and Description of Proposed Course.	
a. Current Prefix and Number: <u>DIS 450</u>	Proposed Prefix & Number: <u>AN 450G</u>
b. Full Title: <u>Analytics Technologies</u>	Proposed Title: <u>N/A</u>
c. Current Transcript Title (if full title is more than 40 characters): <u>Analytics Technologies</u>	
c. Proposed Transcript Title (if full title is more than 40 characters): <u>N/A</u>	
d. Current Cross-listing: <input type="checkbox"/> N/A OR Currently ³ Cross-listed with (Prefix & Number): _____	
Proposed – <input type="checkbox"/> ADD ³ Cross-listing (Prefix & Number): _____	
Proposed – <input type="checkbox"/> REMOVE ^{3,4} Cross-listing (Prefix & Number): _____	
e. Courses must be described by <u>at least one</u> of the meeting patterns below. Include number of actual contact hours ⁵ for each meeting pattern type.	
Current:	<input type="checkbox"/> Lecture <input type="checkbox"/> Laboratory ⁵ <input type="checkbox"/> Recitation <input type="checkbox"/> Discussion <input type="checkbox"/> Indep. Study
	<input type="checkbox"/> Clinical <input type="checkbox"/> Colloquium <input type="checkbox"/> Practicum <input type="checkbox"/> Research <input type="checkbox"/> Residency
	<input type="checkbox"/> Seminar <input type="checkbox"/> Studio <input type="checkbox"/> Other – Please explain: _____
Proposed:	<input type="checkbox"/> Lecture <input type="checkbox"/> Laboratory <input type="checkbox"/> Recitation <input type="checkbox"/> Discussion <input type="checkbox"/> Indep. Study
	<input type="checkbox"/> Clinical <input type="checkbox"/> Colloquium <input type="checkbox"/> Practicum <input type="checkbox"/> Research <input type="checkbox"/> Residency
	<input type="checkbox"/> Seminar <input type="checkbox"/> Studio <input type="checkbox"/> Other – Please explain: _____
f. Current Grading System: <input type="checkbox"/> Letter (A, B, C, etc.) <input type="checkbox"/> Pass/Fail	
Proposed Grading System: <input type="checkbox"/> Letter (A, B, C, etc.) <input type="checkbox"/> Pass/Fail	
g. Current number of credit hours: _____ Proposed number of credit hours: _____	

¹ See comment description regarding minor course change. *Minor changes are sent directly from dean's office to Senate Council Chair.* If Chair deems the change as "not minor," the form will be sent to appropriate academic Council for normal processing and contact person is informed.

² Courses are typically made effective for the semester following approval. No course will be made effective until all approvals are received.

³ Signature of the chair of the cross-listing department is required on the Signature Routing Log.

⁴ Removing a cross-listing does not drop the other course – it merely unlinks the two courses.

⁵ Generally, undergrad courses are developed such that one semester hr of credit represents 1 hr of classroom meeting per wk for a semester, exclusive of any lab meeting. Lab meeting generally represents at least two hrs per wk for a semester for 1 credit hour. (See SR 5.2.1.)

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h. Currently, is this course repeatable for additional credit?	YES <input type="checkbox"/>	NO <input type="checkbox"/>
<i>Proposed to be repeatable for additional credit?</i>	YES <input type="checkbox"/>	NO <input type="checkbox"/>
If YES: Maximum number of credit hours: _____		
If YES: Will this course allow multiple registrations during the same semester?	YES <input type="checkbox"/>	NO <input type="checkbox"/>
i. Current Course Description for Bulletin:	<u>Senior standing in the College of Business and Economics; B&E Undergraduate students must have completed 9 of the 18 credits required for a DSIS major. Non B&E Upper Division undergraduate students may be enrolled with the consent of the instructor.</u>	
<i>Proposed Course Description for Bulletin:</i>	<u>Senior standing or Graduate Student status in the College of Business and Economics. B&E Undergraduate students must have completed 9 of the 18 credits required for an Analytics major. Non B&E Upper Division undergraduate students and Graduate students may be enrolled with the consent of the instructor.</u>	
j. Current Prerequisites, if any: _____		
<i>Proposed Prerequisites, if any:</i> _____		
k. Current Distance Learning(DL) Status:	<input type="checkbox"/> N/A <input type="checkbox"/> Already approved for DL* <input type="checkbox"/> Please Add ⁶ <input type="checkbox"/> Please Drop	
*If already approved for DL, the Distance Learning Form must also be submitted <u>unless</u> the department affirms (by checking this box <input type="checkbox"/>) that the proposed changes do not affect DL delivery.		
l. Current Supplementary Teaching Component, if any:	<input type="checkbox"/> Community-Based Experience <input type="checkbox"/> Service Learning <input type="checkbox"/> Both	
<i>Proposed Supplementary Teaching Component:</i>	<input type="checkbox"/> Community-Based Experience <input type="checkbox"/> Service Learning <input type="checkbox"/> Both	
3. Currently, is this course taught off campus?	YES <input type="checkbox"/>	NO <input type="checkbox"/>
<i>Proposed to be taught off campus?</i>	YES <input type="checkbox"/>	NO <input type="checkbox"/>
4. Are significant changes in content/teaching objectives of the course being proposed?	YES <input type="checkbox"/>	NO <input type="checkbox"/>
If YES, explain and offer brief rationale: _____		
5. Course Relationship to Program(s).		
a. Are there other depts and/or pgms that could be affected by the proposed change?	YES <input type="checkbox"/>	NO <input type="checkbox"/>
If YES, identify the depts. and/or pgms: _____		
b. Will modifying this course result in a new requirement⁷ for ANY program?	YES <input type="checkbox"/>	NO <input type="checkbox"/>
If YES ⁷ , list the program(s) here: _____		
6. Information to be Placed on Syllabus.		
a.	<input checked="" type="checkbox"/> Check box if <u>changed to 400G or 500.</u>	If <u>changed to</u> 400G- or 500-level course you must send in a syllabus and you must include the <i>differentiation</i> between undergraduate and graduate students by: (i) requiring additional assignments by the graduate students; and/or (ii) establishing different grading criteria in the course for graduate students. (See SR 3.1.4.)

⁶ You must *also* submit the Distance Learning Form in order for the course to be considered for DL delivery.

⁷ 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 450G (formerly, DIS 450)
 Proposal Contact Person Name: Dr. 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	2/10	Scott Kelley 17 3425 skelley@uky.edu	Scott W Kelley
Undergrad Studies	4/23/10	Nancy Johnson 17 2976 nbj@uky.edu	Nancy Johnson
Gatton Faculty	4/30/10	Meryl Hackbart 17 3592 m.hackbart@uky.edu	Meryl Hackbart
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External-to-College Approvals:

Council	Date Approved	Signature	Approval of Revision ⁸
Undergraduate Council	10/26/2010		
Graduate Council			
Health Care Colleges Council			
Senate Council Approval		University Senate Approval	

Comments:

⁸ Councils use this space to indicate approval of revisions made subsequent to that council's approval, if deemed necessary by the revising council.

AN 450G-001 Analytics Technologies
Department Prefix: DSIS; College Prefix: B&E
Fall 2010
Tuesdays and Thursdays ???-??? BE 201

Instructor: Professor De Liu
Email: de.liu@uky.edu
Office: B&E 455Y
Phone: (859) 257-1142
Office Hrs: Tuesday and Thursday one hour before class, or by appointment

COURSE DESCRIPTION:

This course develops computing skills relevant to the construction, maintenance, and usage of systems for analytics. It does so by combining the facets of technology (e.g., advanced spreadsheet computing), realistic workplace decision making, and decision support system development into a capstone experience. Prior courses introduce students to analytical techniques commonly used in organizational decision making, as well as current information technologies. This course combines students' abilities in both areas within an advanced software context. Specifically, the course enhances students' abilities in developing computer-based systems that employ analytical techniques for the purpose of aiding organizational decision makers.

COURSE GOALS:

To guide students in synthesizing and leveraging knowledge and skills acquired in preceding Analytics coursework into realistic decision support systems building experiences where students work in teams.

STUDENT LEARNING OUTCOMES:

By the end of the semester, you will

- Become a power user of Excel.
- Automate basic routine tasks using VBA.
- Be capable of designing a user-friendly user interface for problem solving applications.
- Appreciate what information technology and management science can do in organizations, and
- Understand the effort and challenges involved in developing a good decision support system.

TEXTBOOK & SOFTWARE:

Author: S. Christian Albright

Title: VBA for Modelers: Developing Decision Support Systems with Microsoft Excel (3rd edition)

Publisher: South-Western Cengage Learning

ISBN: 1439079846 / 978-1439079843

Additional References

- **Excel 2007 Power Programming with VBA**, by John Walkenbach. ISBN: 978-0-470-04401-8. This can be used as a handbook if you want to dig deeper into Excel VBA programming.
- **Excel Programming Forum:**
<http://groups.google.com/group/microsoft.public.excel.programming/topics> a good source for finding solutions to common and obscure problems.
- **Other links on course website.** (If you know additional useful resources, please share with us)

Software: Excel 2007 (with VBA enabled). Available in B&E 201 and computer labs.

ASSESSMENT & GRADING

Undergraduate students:

Midterm Exam (1)	20%
Final Exam	26%
Team Project (2)	24%, 12% each
Individual Homework (11)	30%, 3% each, the lowest will be dropped

Graduate Students:

Midterm Exam (1)	20%
Final Exam	20%
Course Project (2)	24%, 12% each*
Individual Homework (10)	27%, 3% each, the lowest will be dropped
Term Paper	9%

* Graduate students must complete their course projects alone.

The final letter grade is given according to the following table (**no curve**).

	letter grade (undergraduate)	Letter Grade (Graduate)
90 - 100%	A	A
80 - 89.9%	B	B
70 - 79.9%	C	C
60 - 69.9%	D	F
0 - 59.9%	F	F

ATTENDANCE

I take attendance at the beginning of each class. Students with perfect attendance are eligible for a 2% bonus to upgrade to the next letter grade, when possible. Students with 1-2 absences are eligible for a 1% bonus to upgrade to the next letter grade, when possible. Students with more than 2 absences are not considered for any grade upgrade. Excused medical absences with doctor's proof are not counted toward absences.

INDIVIDUAL HOMEWORK

- **Due time.** Each assignment is due before the class meeting time on the due date (listed in the course schedule).
- **Late homework.** If you turn in your homework within 24 hours after the due time, your grade will be discounted by 20%. If your homework is turned in 24 hours after the due time, your grade will be zero (but you will still receive feedback).
- **Plagiarism.** All homework assignments are expected to be accomplished individually. Copying others' homework is strictly forbidden. Such an act will be punished (a zero grade for the homework at minimum). However, you may discuss homework problems with fellow students. In case of difficulty, you are encouraged to email me or drop by.
- **Submission.** Submit your files to the corresponding assignment folder on Blackboard, following the naming convention:

Lastname_Firstname_other_info.xls

DO NOT use special characters (other than blank and underscore) in file names. For example, "Doe_John_hw5.xls" and "Doe_John_hw5_pivot_table.xls" are legitimate names. Be sure to hit the submit button. If you submit successfully, you should see an exclamation mark "!" in the corresponding grade book item. Submit multiple files all at once. Blackboard prevents you from submitting multiple times. In case you want to submit again before the due time, send your files to me via email.

You should always save a copy of your homework before submission. Keep a copy of your submitted work throughout the semester.

All Excel files with VBA code should be saved with an .xlsm extension (macro-enabled). Alternatively, you may save them as .xls (Excel 2003 format). Saving in .xlsx will result in the loss of the VBA code.

- **Grading.** I usually post homework grades on Blackboard within one week of the due date. Homework is graded on a scale of 0-10. If you get 10, you will receive full 3% credits. If you get 9, you will receive 2.7% (=9/10 * 3%) credits, and so on. I intend to give extra credits to exceptional/innovative work.

EXAMS

- **Missing Exams:** There are NO makeup exams. However, in extraordinary circumstances allowed by the university policy (e.g., if you get sick right before

the exam), you must contact me BEFORE the exam to obtain special accommodation. Otherwise, you are considered missing an exam.

- **Scholastic Honesty:** 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.
- **Regrade:** I will NOT re-grade an exam except when there are obvious AND significant mistakes in grading. Should you require a regrade, you must submit your request within one week after receiving the exam grade.

TEAM PROJECTS

- The purpose of team projects is to provide you a chance to practice and improve your teamwork skills, presentation skills, and communication skills. Team projects give you an opportunity to demonstrate innovative ideas, to synthesize and apply what you learn in class, and to teach and learn from your peers.
- Team projects are evaluated by peer groups (50%) and by the instructor (50%). Each team project assignment consists of a team presentation and a written report. Your peers will evaluate your team presentation along the lines of *functionalities*, *ease-of-use*, *presentation style*, and *creativity*. Prepare your presentation and written report (1) as if you were promoting your idea to a superior or a client and (2) as if you were to impress a panel of expert judges with the qualities of your work.
- The instructor will grade your team project assignment based on the presentation, written report, and actual spreadsheet solution. The written report should be done in Word. The minimum length for the written report is 3 pages (double space).
- Each team consists of 2-3 members. In most case, all team members receive the same team project grade. But those who lack contribution (as reflected by intra-group peer evaluation) may receive partial or zero grade for the team project. More detailed instructions on team projects will be given in class.

CLASSROOM CODE

- Please turn off any device that may cause class disruptions, including Cell Phones, CD/MP3 players, and iPods. Please do not use text messaging, email, facebook, or twitter during the class.
- I expect you to actively participate in the classroom instruction by raising questions, answering questions, and making observations. No comment is

considered “bad.” I believe that a good learning environment is a safe environment in which everyone feels free to question and discuss.

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.

CORRESPONDENCE

- **Keep your email address with Blackboard current and check your email inbox.** Important messages may be delivered to you through this email (e.g. change of a homework problem, exam location and dates). If you need help on a problem, please attach the EXCEL worksheet that you are working on.

TENTATIVE SCHEDULE

Week	Topic	Assignments
1	Introduction	Read: Ch 1 Workshop: 1-Keyboard, 2-Formatting, 3-VBA
2	Formulas & Functions	Workshop: 4-Formulas, 5-Functions Due HW1
	Data Entry	Workshop: 6-Data Entry
3		
	Tables & PivotTables	Workshop: 7-Excel Table, Read: Ch 15.5 Due HW2
4		Workshop: 8-Pivot Table, Read: Ch 15.1, 15.2
	What-if Analysis	Workshop: 9-Data Table Due HW3
5		Workshop: 11-Car Loan Analysis
	Introduction to VBA	Workshop: 12, 13-Intro to VBA Read: Ch 2, 3, 5.1-5.4, 5.8-5.14. Due HW4
6		Workshop: 14-Msgbox & Inputbox, Read: Ch 5.5, 5.6
7	Ranges	Workshop: 15-Ranges (1), Read: Ch 6 Due HW5
	Team Project 1 Presentations	
8		Workshop: 16-Ranges (2), Read: Ch 6
9	Mid-Term Exam (In Class)	
	Branching and Loops	Workshop: 17-Control Logic 1, Read: Ch 7.1-7.4 Due HW6

10	Branching and Loops	Workshop: 18-Control Logic 2, Read: Ch 7.5-7.8 Due Hw7
11	Macros	Workshop: 19--Macros, Read: Ch4
	Workbook and Worksheet	Workshop: 20-Workbook/Worksheet, Read: Ch4
12	User Forms	Workshop: 21--User forms, Read: Ch10 Due Hw8 Read: Ch 10
13	App 1: Blending - User Interface	Workshop: 22-Input forms, Read: Ch18.1,Ch19 Due Hw9
	Integrate with Solver	Workshop: 23- Using Solver, Read: Ch19
14		Workshop: 24-Fine-tune App 1, Read: Ch19 Due Hw10
	Thanksgiving Holiday - No Class	
15	App 2: Working with Databases	
	Team Project 2 Presentations	Workshop: 25-Work with Database, Read: Ch14
16	Working with PivotTable	Workshop: 26-Automate PivotTables, Read: Ch15
		Workshop: 27-Fine-tune App 2 Due Hw11
17	Final Exam	