

# REQUEST FOR COURSE CHANGE (MAJOR AND MINOR)

## Signature Routing Log

**General Information:**

Course Prefix and Number: AN 300 (formerly, DIS 300)  
 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 7-137251 skelley@uky.edu	Scott W Kelley
Undergrad Studies	4/23/10	NANCY JOHNSON 7-12976 nbs@uky.edu	Nancy Johnson
Lattin Faculty	4/30/10	MERL HACKBART 7-13592 m.hackbart@uky.edu	[Signature]
		1 1	
		1 1	

**External-to-College Approvals:**

Council	Date Approved	Signature	Approval of Revision <sup>8</sup>
Undergraduate Council	10/26/2010	[Signature]	
Graduate Council			
Health Care Colleges Council			
Senate Council Approval		University Senate Approval	

Comments:

---

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

## 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: Gatton College of Business & Economics Today's Date: 02/20/2010
- b. Department/Division: Decision Science & Information Systems
- c. Is there a change in "ownership" of the course? YES  NO   
 If YES, what college/department will offer the course instead? Gatton College/Analytics
- d. What type of change is being proposed?  Major  Minor<sup>1</sup> (place cursor here for minor change definition)
- e. Contact Person Name: Dr. Ram Pakath Email: pakath@uky.edu Phone: 257-4319
- f. Requested Effective Date:  Semester Following Approval OR  Specific Term<sup>2</sup>: Fall 2010

### 2. Designation and Description of Proposed Course.

- a. Current Prefix and Number: DIS 300 Proposed Prefix & Number: AN 300
- b. Full Title: Analyzing Business Operations Proposed Title: N/A
- c. Current Transcript Title (if full title is more than 40 characters): Analyzing Business Operations
- c. Proposed Transcript Title (if full title is more than 40 characters): N/A
- d. Current Cross-listing:  N/A OR Currently<sup>3</sup> Cross-listed with (Prefix & Number): \_\_\_\_\_  
 Proposed –  ADD<sup>3</sup> Cross-listing (Prefix & Number): \_\_\_\_\_  
 Proposed –  REMOVE<sup>3,4</sup> Cross-listing (Prefix & Number): \_\_\_\_\_
- e. Courses must be described by at least one of the meeting patterns below. Include number of actual contact hours<sup>5</sup> for each meeting pattern type.
- |           |                                   |  |  |                                     |                                       |
|-----------|-----------------------------------|--|--|-------------------------------------|---------------------------------------|
| Current:  | <input type="checkbox"/> Lecture  | <input type="checkbox"/> Laboratory <sup>5</sup> | <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:  Letter (A, B, C, etc.)  Pass/Fail  
 Proposed Grading System:  Letter (A, B, C, etc.)  Pass/Fail
- g. Current number of credit hours: \_\_\_\_\_ Proposed number of credit hours: \_\_\_\_\_

<sup>1</sup> 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.*

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

<sup>3</sup> Signature of the chair of the cross-listing department is required on the Signature Routing Log.

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

<sup>5</sup> 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.)

## REQUEST FOR COURSE CHANGE (MAJOR AND MINOR)

<b>h. Currently, is this course repeatable for additional credit?</b>	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"/>
<i>If YES: Maximum number of credit hours: _____</i>		
<i>If YES: Will this course allow multiple registrations during the same semester?</i>	YES <input type="checkbox"/>	NO <input type="checkbox"/>
<b>i. Current Course Description for Bulletin:</b> _____		
<i>Proposed Course Description for Bulletin:</i> _____		
<b>j. Current Prerequisites, if any:</b>	<u>(1) Completion of all college pre-major requirements; (2) Admission to Upper Division in Business and Economics.</u>	
<i>Proposed Prerequisites, if any:</i>	<u>Completion of all college pre-major requirements and admission to Upper Division in Business and Economics.</u>	
<b>k. Current Distance Learning (DL) Status:</b>	<input type="checkbox"/> N/A <input type="checkbox"/> Already approved for DL* <input type="checkbox"/> Please Add <sup>6</sup> <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.		
<b>l. Current Supplementary Teaching Component, if any:</b>	<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	
<b>3. Currently, is this course taught off campus?</b>	YES <input type="checkbox"/>	NO <input type="checkbox"/>
<i>Proposed to be taught off campus?</i>	YES <input type="checkbox"/>	NO <input type="checkbox"/>
<b>4. Are significant changes in content/teaching objectives of the course being proposed?</b>	YES <input type="checkbox"/>	NO <input type="checkbox"/>
<i>If YES, explain and offer brief rationale:</i>		
_____		
<b>5. Course Relationship to Program(s).</b>		
<b>a. Are there other depts and/or pgms that could be affected by the proposed change?</b>	YES <input type="checkbox"/>	NO <input type="checkbox"/>
<i>If YES, identify the depts. and/or pgms: _____</i>		
<b>b. Will modifying this course result in a new requirement<sup>7</sup> for ANY program?</b>	YES <input type="checkbox"/>	NO <input type="checkbox"/>
<i>If YES<sup>7</sup>, list the program(s) here: _____</i>		
<b>6. Information to be Placed on Syllabus.</b>		
<b>a.</b>	<input type="checkbox"/> Check box if <u>changed to 400G or 500.</u>	If <u>changed to 400G- or 500-level course</u> you must send in a syllabus and <i>you must include the 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.)

<sup>6</sup> You must also submit the Distance Learning Form in order for the course to be considered for DL delivery.

<sup>7</sup> In order to change a program, a program change form must also be submitted.

**AN 300-xxx: Analyzing Business Operations**  
**College Prefix - B&E; Department Prefix - DSIS**

---

Instructor:	Semester: Fall 2010
Office:	Office Hours:
Phone:	E-mail:
Class Room:	Class Time:

---

**TEXT:**

**Option 1: both printed and electronic:**

Reid, R. Dan and Sanders, Nada R., Operations Management: An Integrated Approach, 4<sup>th</sup> Edition with WileyPlus, John Wiley & Sons, Inc., 2010. ISBN: 9780470556702.

**Option 2: printed only:**

**Option 2(a): hard back version:**

Reid, R. Dan and Sanders, Nada R., Operations Management: An Integrated Approach, 4<sup>th</sup> Edition, John Wiley & Sons, Inc., 2010. ISBN: 9780470325049.

**Option 2(b): binder-ready (3 hole punched) version:**

Reid, R. Dan and Sanders, Nada R., Operations Management: An Integrated Approach, 4<sup>th</sup> Edition, John Wiley & Sons, Inc., 2010. ISBN: 9780470558300.

**Option 3: electronic only:**

**Option 3(a): access card version:**

Purchase a Wiley+ access card from the bookstore. ISBN: 978047032719.

**Option 3(b): access code version:**

Purchase the registration code for Wiley+ online at the Wiley+ site:  
<http://edugen.wiley.com/edugen/class/clsxxxx> (see your section URL below)

**Wiley+:**

<http://edugen.wiley.com/edugen/class/cls176969>(for section 001)

<http://edugen.wiley.com/edugen/class/cls176970>(for section 002)

<http://edugen.wiley.com/edugen/class/cls176972>(for section 003)

**SOFTWARE:**

Excel 2007, available in the university's microlabs.

**COURSE OVERVIEW:**

This course is a study of quantitative and technology-based analytical techniques for managing a company's manufacturing and service operations. Specifically, it is concerned with the economical use of inputs (human, capital, and material) in a transformation process that results in goods or services. It involves making decisions on how to best design and operate a production system. The term "production system" includes not only organizations that manufacture products but also those that offer services, such as hospitals, banks, government agencies, and restaurants. Thus, any organization that transforms inputs into outputs is subject to Production and Operations Management (POM) concepts. Our concern is for the managerial aspects of POM problems and not the engineering nor the technical feasibility of the process. This managerial emphasis takes the form of economic analyses of these alternatives, including statements of criteria, information requirements, and mathematical aids for solutions.

### **LEARNING OUTCOMES:**

After completion of this course, you should be able to:

1. understand the role of operations management in supporting an organization's competitive priorities;
2. make operations related decisions that gives an organization a competitive edge;
3. gain an appreciation of the importance and challenges of global business operations;
4. apply mathematical techniques to solve operations related decision problems such as resource allocation, capacity planning, facility location, forecasting, inventory control, project management, etc.;
5. gain hands-on experience in using EXCEL as a tool to solve operations decision problems effectively and efficiently.

### **COURSE OBJECTIVES:**

1. Develop an understanding of the nature and importance of an enterprise's operations;
2. Learn underlying concepts and basic analytical techniques essential for managing a firm's manufacturing and service operations;
3. Develop the ability to plan, control, and coordinate organizational resources and processes concerned with producing and distributing goods and/or services.

### **GRADING:**

The final grade will comprise real-world application exercise (10%), concept quizzes (10%), homework assignments (20%), mid-term exam #1 (A %), mid-term exam #2 (B %), and a cumulative final exam (F %). Real-world application exercise, concept quizzes and homework assignments are discussed below. The percentage weights A, B, and F would be selected to give maximum advantage to each student. The weight F cannot be less than 30%. And the weights A and B would each normally be 15%. However, either or both weights A and B can be dropped to 0 and the 15% in each case carried over to the weight F, for example if either mid-term is missed for any reason, or if the student's performance on the final is better than that on either or both mid-terms. Thus, the final exam would carry a weighting of: 45% of the final grade if either mid-term exam is missed, or if performance on the final is better than that on either mid-term; and a weighting of 60% if both mid-term exams are missed, or if the performance on the final is better than that on both mid-terms. On this basis, the final exam would effectively count as a make-up exam in cases where either, or both, mid-term exams are missed. Numerical grades will be converted to letter grades as follows: A = 85-100; B = 75-84; C = 65-74; D = 55-64; E = 0-54.

### **MIDTERM EVALUATION:**

You will be provided with a Midterm Evaluation of the course performance by October 18.

### **REAL-WORLD APPLICATION EXERCISE:**

To give students an opportunity to see topics discussed in the course being used in real company settings, each student will form a team with class mates to conduct a real-world application exercise. The exercise requires each team to visit a manufacturing plant or service operation and to present either a PowerPoint presentation or a 3-5 minute video that demonstrates a POM concept in action. Individual scores will be adjusted based on the evaluation of your team members.

### **CONCEPT QUIZZES:**

To encourage student preparedness, attendance, attention, and participation, a total of 7 concept quizzes will be given during the semester, each marked on a scale of 10, with a guaranteed minimum of 5 awarded for merely being present. Of the 7 quizzes, only the best 5 will count, i.e., two will be treated as "byes". There will be no "make-up" quizzes, for any reason. Concept quizzes may cover the previous class lecture, the reading assignment for the day, something we have just completed discussing in class, questions pertaining to practice problems.

**HOMEWORK ASSIGNMENTS:**

To do well in a quantitative course, you must practice a large problem set. Details for the homework assignments will be announced in class with at least one week's notice. In addition to your assigned homework problems, you should at least review all the "solved problems" and "odd-numbered problems" at the end of each chapter.

**LATE PENALTY:**

A late penalty of 10% per day will be issued to any work submitted after the due date.

**SCHEDULE CONFLICTS AND EXCUSED ABSENCES:**

Where students have final-exam schedule conflicts, the policy outlined in the Fall 2010 Schedule of Classes will govern. This allows for rescheduling of the exam in individual cases, at student request, in case of conflict and/or hardship. With respect to mid-term exams, in individual cases where demonstrable hardship may otherwise result, the instructor may allow affected students to take the mid-term a day earlier or later than the scheduled date. Where that is not possible, the cumulative final exam will serve effectively as make-up, as already indicated.

**ACADEMIC INTEGRITY:**

We consider academic integrity to be extremely important. We will make special efforts to identify any cheating during examinations. We will seek the most severe sanctions possible for any cheating that is uncovered. Please consult the most recent edition of the "Student Rights and Responsibilities" handbook for further information on Academic Offenses and Procedures.

**POLICY ON ACADEMIC ACCOMMODATIONS DUE TO DISABILITY:**

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.

**COURSE CONTENT & TENTATIVE SCHEDULE:**

<b>Week</b>	<b>Dates</b>	<b>Topic</b>	<b>Chapters</b>
1-2	8/25 - 9/3	Introduction	Ch. 1, 2
3	9/7 - 9/10	Break-even analysis	Ch. 3, 4
	9/13 or 9/14	Team composition and firm selection	
4-5	9/13 - 9/24	Forecasting	Ch. 8
6	9/27 - 9/30	Inventory management	Ch. 12
	10/1	EXAM #1, 4:00 - 5:30 pm	
7	10/4 - 10/8	Capacity planning	Ch. 9
8-9	10/12 - 10/23	Linear programming	Supplement B
	10/18 or 10/19	Draft of video script or PowerPoint outline	
10-11	10/25 - 11/4	Facility location	Ch. 9, Supplement B
	11/5	EXAM #2, 4:00 - 5:30 pm	
12-13	11/8 - 11/19	Quality control	Ch. 5, 6
	11/22 or 11/23	Video or PowerPoint Presentation	
15-16	11/29 - 12/9	Project management	Ch. 16
	12/15	EXAM #3, 6:00 - 8:00 pm	