

## 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.

|   |  |  |   |                                     |                                       |
|---|--|--|---|-------------------------------------|---------------------------------------|
| <b>1. General Information.</b>                            |  |  |   |                                     |                                       |
| a.  | Submitted by the College of: <u>Gatton College of Business &amp; Economics</u>   | Today's Date: <u>02/20/2010</u>                  |   |                                     |                                       |
| b.  | Department/Division: <u>Decision Science &amp; 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 <sup>1</sup> (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 <sup>2</sup> : <u>Fall 2010</u> |                                     |                                       |
| <b>2. Designation and Description of Proposed Course.</b> |  |  |   |                                     |                                       |
| a.  | Current Prefix and Number: <u>DIS 406</u>  | Proposed Prefix & Number: <u>AN 403G</u>         |   |                                     |                                       |
| b.  | Full Title: <u>Production and Inventory Systems</u>  | Proposed Title: <u>N/A</u>                       |   |                                     |                                       |
| c.  | Current Transcript Title (if full title is more than 40 characters): <u>Production and Inventory Systems</u>   |  |   |                                     |                                       |
|   | 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 <sup>3</sup> Cross-listed with (Prefix & Number): _____   |  |   |                                     |                                       |
|   | Proposed – <input type="checkbox"/> ADD <sup>3</sup> Cross-listing (Prefix & Number): _____  |  |   |                                     |                                       |
|   | Proposed – <input type="checkbox"/> REMOVE <sup>3,4</sup> Cross-listing (Prefix & Number): _____   |  |   |                                     |                                       |
| e.  | <b>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.</b>            |  |   |                                     |                                       |
| 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: <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: _____   |  |   |                                     |                                       |

<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.)

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|           |   |  |                             |
|-----------|---|--|-----------------------------|
| <b>h.</b> | 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"/> |
|           | <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.</b> | Current Course Description for Bulletin: _____  |  |                             |
|           | <i>Proposed Course Description for Bulletin: _____</i>  |  |                             |
| <b>j.</b> | Current Prerequisites, if any:  | <u>Completion of all college pre-major requirements and admission to Upper Division in Business &amp; Economics. Non B&amp;E Upper Division undergraduate students may be enrolled with the consent of the instructor.</u>   |                             |
|           | <i>Proposed Prerequisites, if any:</i>  | <u>Completion of all college pre-major requirements and admission to Upper Division or Graduate Student status in Business &amp; Economics. Non B&amp;E Upper Division undergraduate students and Graduate students may be enrolled with the consent of the instructor.</u>  |                             |
| <b>k.</b> | Current Distance Learning(DL) Status:   | <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.</b> | 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  |                             |
| <b>3.</b> | 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"/> |
| <b>4.</b> | Are significant changes in content/teaching objectives of the course being proposed?  | YES <input type="checkbox"/>   | NO <input type="checkbox"/> |
|           | <i>If YES, explain and offer brief rationale:</i>   |  |                             |
|           |   |  |                             |
| <b>5.</b> | Course Relationship to Program(s).  |  |                             |
| <b>a.</b> | Are there other depts and/or pgms that could be affected by the proposed change?  | YES <input type="checkbox"/>   | NO <input type="checkbox"/> |
|           | <i>If YES, identify the depts. and/or pgms: _____</i>   |  |                             |
| <b>b.</b> | Will modifying this course result in a new requirement <sup>7</sup> for ANY program?  | YES <input type="checkbox"/>   | NO <input type="checkbox"/> |
|           | <i>If YES<sup>7</sup>, list the program(s) here: _____</i>  |  |                             |
| <b>6.</b> | Information to be Placed on Syllabus.   |  |                             |
| <b>a.</b> | <input checked="" type="checkbox"/> Check box if changed to 400G or 500.  | If <u>changed to</u> 400G- or 500-level course 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.

# REQUEST FOR COURSE CHANGE (MAJOR AND MINOR)

## Signature Routing Log

**General Information:**

Course Prefix and Number: AN 403G (formerly, DIS 406)  
 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 Kelly 7 1 skelly@uky.edu            | Scott W Kelly |
| Undergrad Studies | 4/23/10       | Nancy Johnson 1 2976 1 nbj@uky.edu        | Nancy Johnson |
| Glatton Faculty   | 4/30/10       | Merl Hackbart 1 3592 1 m.hackbart@uky.edu | Merl Hackbart |
|                   |               | 1 1                                       |               |
|                   |               | 1 1                                       |               |

**External-to-College Approvals:**

| Council                      | Date Approved | Signature                  | Approval of Revision <sup>8</sup> |
|------------------------------|---------------|----------------------------|-----------------------------------|
| Undergraduate Council        | 10/26/2010    |                            |                                   |
| 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.

**AN 403G: PRODUCTION AND INVENTORY MANAGEMENT**  
**DEPARTMENT PREFIX – DSIS; COLLEGE PREFIX - BE**

**INSTRUCTOR:** C. H. Chung  
**OFFICE:** 425 E, B& E Building  
**HOURS:** 2-3, TR; or by appointment  
**PHONE:** 257-3258  
**E-MAIL:** BAD180@UKY.EDU

**DESCRIPTION:** This course is an advanced introduction to the complexities of managing production and inventory systems. An enterprise's success in today's highly-competitive, often-global business environment depends on effectively managing its production activities and the related inventories at various production-process stages. Because such decisions are invariably tied to demand forecasts, the course begins with an examination of forecasting. Students are then led through the topics of production planning, master scheduling, material requirements & manufacturing-resources planning, production activity control, capacity management, and sequencing & scheduling. The course culminates with coverage of contemporary trends toward just-in-time manufacturing systems and lean manufacturing systems. Applications of analogous systems and principles in the service sector are also addressed throughout the course. In addition to strengthening the technical knowledge in these subjects, we also emphasize the strategic implications of these issues. Balance between theory and practice will be maintained.

**GOALS:** To expose a student to key theoretical and practical issues in the effective control and direction of a manufacturing process. These include issues related to planning materials requirement, manufacturing resources, and capacity decisions.

**STUDENT LEARNING OUTCOMES:**

Upon completion of this course, a student should:-

- Understand how effectively managing the production process can be a strategic competitive tool.
- Understand what constitutes manufacturing resources.
- Understand the role played by manufacturing resources planning.
- See how master planning is used in industry.
- Understand the role played by materials requirement planning.
- See how materials requirement planning is used in industry.
- Understand the role played by capacity planning.
- See how capacity planning is used in industry.
- Appreciate the use of such planning tools in modern global supply chains.

**PRE-REQUISITES:** Completion of all college pre-major requirements and admission to Upper Division or Graduate Student status in Business and Economics. Non B&E Upper Division undergraduate students and Graduate students may be enrolled with the consent of the instructor.

**TEXT:** Vollmann, T. E., Berry, W. L., Whybark, D. C. and Jacobs, F. R., *Manufacturing Planning and Control for Supply Chain Management*, Fifth Edition, McGraw-Hill & Irwin, 2007.

## **GRADING:**

### Undergraduate Students:-

There will be three exams in total. Each exam will count as 30% of your grade. All exams will be cumulative and comprehensive. In addition, students are required to turn in a book report before the last day of class. The book report will count as 10% of your final grade.

Grading Scale:- A- 90%-100%; B-80%-89.99%;C-70%-79.99%;D-60%-69.99%;E-0%-59.99%

### Graduate Students:-

There will be three exams in total. Exams 1 and 2 will each count as 25% of your grade. The final exam will count as 30%. All exams will be cumulative and comprehensive. In addition, students are required to turn in a book report as well as a term paper before the last day of class. The book report and term paper will each count as 10% of your final grade.

Grading Scale:- A- 90%-100%; B-80%-89.99%;C-70%-79.99%; E-0%-69.99%

## **COURSE POLICIES:**

1. **Midterm Evaluation:** Undergraduate students will be provided with a Midterm Evaluation during the midterm grading period for the semester.
2. **Disabilities Accommodation:** If you have a documented disability that requires academic accommodations, please see the instructor as soon as possible during scheduled office hours. In order to receive accommodations in this course, you must provide the instructor with a Letter of Accommodation from the Disability Resource Center (Room 2, Alumni Gym, 257-2754, email address [jkarnes@email.uky.edu](mailto:jkarnes@email.uky.edu)) for coordination of campus disability services available to students with disabilities.
3. **Excused Absences & Verification:** Your absence will be excused under the following circumstances –
  - a. significant illness of the student or serious illness of a member of the student's household (permanent or campus) or immediate family;
  - b. the death of a member of the student's household (permanent or campus) or immediate family;

- c. trips for members of student organizations sponsored by an academic unit, trips for University classes, and trips for participation in intercollegiate athletic events.
- d. major religious holidays. Students are responsible for notifying the instructor in writing of anticipated absences due to their observance of such holidays no later than the last day for adding a class.

In all such cases written documentation from an appropriate authoritative source or sources should be provided to the instructor. Such proof must be submitted before the absence when possible/so noted and no later than one week following an absence, under any circumstances, for the absence to be excused.

- 4. **Submission of Assignments:** Homework must usually be turned in on paper, and sometimes via email. All homework must be turned in on the date and at the time due, personally, by each student. Late submissions will not be accepted unless you have a valid, verifiable excuse, and will be awarded a grade of zero.
- 5. **Makeup Opportunities:** If you miss a scheduled exam/quiz with valid excuse, you will be offered one, common makeup opportunity along with all students who missed.
- 6. **Academic Integrity:**
  - a. Plagiarism includes reproducing someone else's work, whether it be published article, chapter of a book, a paper from a friend or some file, or whatever. Plagiarism also includes the practice of employing or allowing another person to alter or revise the work which a student submits as his/her own, whoever that other person may be. Students may discuss assignments among themselves or with an instructor or tutor, but when the actual work is done, it must be done by the student, and the student alone.
  - b. Cheating is defined by its general usage. It includes, but is not limited to, the wrongfully giving, taking, or presenting any information or material by a student with the intent of aiding himself/herself or another on any academic work which is considered in any way in the determination of the final grade. The fact that a student could not have benefited from an action is not by itself proof that the action does not constitute cheating.
  - c. The minimum penalty for such an offense is a grade of zero for the particular assignment/exam/quiz in question.
- 7. **Group work & Student Collaboration:** In activities that call for student collaboration, all students involved in a group effort are expected to contribute equally to the final outcome. In the event there are verifiable complaints about a group member from others in the group, the student in question will be awarded a grade of zero for the activity.

#### **TENTATIVE COURSE COVERAGE AND EXAM DATES:**

| <u>WEEK</u> | <u>TOPICS</u>  |
|-------------|--|
| 1           | Introduction   |
| 2           | Strategic Management of Resources                      |
| 3           | Just In Time Production and Lean Manufacturing Systems |
| 4           | Manufacturing Resource Planning                        |
| 5           | Master Planning  |
| 6           | Master Planning in Practice                            |
| 7           | <b>Review: EXAM #1</b>                                 |
| 8           | Material Requirements Planning                         |
| 9           | Material Requirements Planning: Implementation         |
| 10          | Inventory Management                                   |
| 11          | <b>Review: EXAM #2</b>                                 |
| 12          | Supply Chain Management and Global Operations          |
| 13          | Production Activity Control; Capacity Management       |
| 14          | Widening Perspectives on Production and Inventory      |
| Management  |  |
| <u>15</u>   | <b>Final Exam</b>                                      |