REQUEST FOR NEW COURSE

1. General Information.

a. Submitted by the College of: Business and Economics Today's Date: 1/15/2010

b. Department/Division: MBA

c. Contact person name: Mary Lee Kerr Email: mkerr2@uky.edu Phone: 7-1924

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: MBA 616

b. Full Title: Supply Chain Operations

c. Transcript Title (if full title is more than 40 characters): Supply Chain Operations

d. To be Cross-Listed[2] with (Prefix and Number): No

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

61 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

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: An immersive study of supply chain operations and the discipline of managing and directing physical / technical functions of an organization involving the plan, source, make, deliver and returns function. Open only to One Year MBA

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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*)

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students.

j. Prerequisites, if any: Prereq: MBA 600 through MBA 614

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

l. 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? 40 per section (total 80)

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: _____

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

If YES[5], list affected programs: _____

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-

[4] You must *also* submit the Distance Learning Form in order for the proposed course to be considered for DL delivery.
[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: MBA 616

Proposal Contact Person Name: Mary Lee Kerr Phone: 7-1924 Email: mkerr2@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
MBA Policy Committee (Gatton College)	11/24/2009	Merl Hackbart / 7-1627 / mhackbart@uky.edu	
Gatton College Faculty	2/5/2010	Merl Hackbart / 7-1627 / mhackbart@uky.edu	
		/ /	
		/ /	
		/ /	

External-to-College Approvals:

Council	Date Approved	Signature	Approval of Revision[6]
Undergraduate Council			
Graduate Council		Jannine Blackwell 2010.04.02 14:29:05 -04'00'	
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.

MBA 616
Supply Chain Operations (Three Credits)
UK MBA Program 2010-2011

Module Description and Objectives:

Supply Chain Operations is the discipline of managing and directing physical / technical functions of a firm or organization involving the plan, source, make, deliver, and returns functions. Supply Chain Operations will also introduce students to the terminology, concepts, and skills related to Lean Six Sigma Methodology and Operations Management. Students will develop a fundamental knowledge of a) process improvement techniques, b) production and manufacturing techniques, c) forecasting methodologies, d) materials planning, e) productivity analysis, f) transportation, g) international trade and h) purchasing techniques.
Emphasis is placed on the *systems approach*, which calls for an understanding of trade-offs, in an effort to avoid sub-optimization in making decisions. Students will:

- Recognize the importance of Supply Chain Operations components for effective Supply Chain Management;
- Employ various analytical techniques used in solving operations related problems;
- Learn and use the tools to identify constraints in the supply chain and how best to remove these constraints and
- Engage in exercises and tours of firms that demonstrate the methods and merits of operations management.

Instructors	**B&E Office**	**Phone**	**Email**
Deepak Iyengar	455 H	7-2966	deepak.iyengar@uky.edu
Tamara Nelson			tnelson@leancor.com

All office hours will be by appointment.

Learning Materials:
Required Texts

- Stevenson, William J. (2009), Operations Management, 10th Edition, McGraw-Hill/Irwin: New York. ISBN: 978-007728409-1
- *Six Sigma Green Belt Training Workbook* (by LeanCor)

Class Electronic Resource – BlackBoard:
Almost all of the course material for MBA 616 will be available on-line through UK's Blackboard system (http://www.uky.edu/Blackboard/). These include, class notes (including PowerPoint slides), lab problems, and cases. Students will also be able to check their grades and access this syllabus through the Blackboard throughout the semester. Since we will be using this system extensively, please make sure that you are familiar with Blackboard. Student information for accessing blackboard can be found at

http://www.uky.edu/IT/CustomerService/docs/blackboard/. Please update your email address in the Blackboard to ensure you receive course communication.

Academic Integrity:
I strongly believe that *all* students are intelligent, honest, hardworking, and committed to learning and career development. Such students will be extremely successful in the business world upon completion of their education. In support of these students, *all* students should recognize that I strictly enforce the policies of the University with respect to academic integrity. For details regarding cheating and plagiarism please refer to Section 6.4.0-1 of the Student Rights and Responsibilities Handbook (http://www.uky.edu/StudentAffairs/Code/) and Section 6.3 of the University Senate Rules (http://www.uky.edu/USC/Section VI.pdf) for details.

Special Needs:
Any student with special needs should bring this to the attention of the instructor as soon as possible, but not later than the second week of class.

Class Attendance:
Class attendance is compulsory for all the module sessions, including guest lectures, field trips, and simulations. A non-attendance without a valid excuse will result in a zero score for that specific activity. If you have to miss class, it is your responsibility to turn the assignment prior to the class and find out what was covered and assigned. Field trips and guest lecture content are considered "fair game" for exams and quizzes.

Academic Integrity:
The Honor Code is in effect.

Questions:
All students are encouraged to bring questions, concerns, and comments to my attention as soon as they arise. **Please *do not wait!*** Once final grades are submitted, changes to grades will only be made to correct errors in tallying scores.

Criteria for evaluation:

Exam #1	25%
Quizzes (four)	20%
Exam #2	25%
Six Sigma Exam	25%
Participation & Attendance	5%

The grading policy for this course limits the percent of "As" earned to no more than 50%. A grade of "C" will be given for students whose cumulative score in the course is more than two standard deviations below the median class score. Any questions regarding an individual assignment grade must be submitted in writing within two weeks of the assignment being returned.

Note that it is necessary to receive a passing grade (C or better) in all course modules in order to receive a passing grade for the course. Students must also satisfactorily complete all

extracurricular activities designated by the MBA program to receive a passing grade in this course. These activities include, but are not limited to, attendance at lectures from guest speakers, special workshops, tours, and professional or personal assessments.

Lean Six Sigma: The grading for the Lean Six Sigma component is based on the Lean Six Sigma Green Belt certification exam (scheduled for February 22). Aside from the exam score for course grading purposes, a threshold score must be achieved in order to be awarded the certification. In addition to the course grading component, Lean Six Sigma methods must also be employed for a successful Project Connect effort. Please see below for a description of the Six Sigma Green Belt certification.

Exams 1 & 2: These exams will cover the content from Supply Chain Operations and Lean Six Sigma.

Quizzes: Quizzes will be conducted throughout the module on a scheduled basis.

Lean Six Sigma Green Belt Certification:
Lean Six Sigma is a methodology for understanding and reducing variation in business processes. Lean Six Sigma has become recognized as a viable means for continuous improvement and integral to the competitiveness of many companies. In turn, Green Belt certification is a valuable, marketable indication of Lean Six Sigma understanding and competence. As noted above, the Green Belt certification exam will be graded for course purposes and for determining whether Green Belt certification can be awarded. The threshold score for achieving certification is 80% on the exam. In addition to meeting the required threshold score for the Six Sigma exam (as established by LeanCor), students must demonstrate proficient use of the Six Sigma methodology in their Project Connect efforts to satisfy the requirements for Green Belt certification. This determination of proficient use of the Six Sigma methodology is determined by the program faculty, exclusive of client evaluations. Projects must receive a score of 80% (on a 100-point scale) on the faculty evaluation of the project to be Green Belt eligible. Individuals must achieve 80% on the exam and 80% on the project to be eligible for the Green Belt certification. Further stipulations are set forth by the issuer of the certificate (LeanCor) and will be stated at the outset of the module.

Class Schedule:
Required *advance preparation* for each class session is noted as part of that session. If you are not clear about what preparation is required for a particular class session, please contact me as soon as possible so we can clarify the assignment ***PRIOR*** to the class meeting.

While I will make every effort to adhere to this schedule, particularly with respect to exams, **ALL DATES AND ASSIGNMENTS ARE SUBJECT TO CHANGE**. Advance notice of any changes will be given with ample time for student feedback.

MODULE SCHEDULE

Below is a preliminary schedule for the Supply Chain Management (MBA 616) module. Announcements will be made in class should the schedule change.

Note: Several sessions will be conducted as joint sessions where both cohorts are in attendance. This is true of exam days and occasions in which guest speakers and field trips are conducted.

Week 1

Mon (1/3)	Tues (1/4)	Wed (1/5)	Thurs (1/6)	Fri (1/7)
Lean Six Sigma Green Belt Training				

Week 2

Mon (1/10)	Tues (1/11)	Wed (1/12)	Thurs (1/13)	Fri (1/14)
Six Sigma Green Belt Training				

Week 3

Mon (1/17)	Tues (1/18)	Wed (1/19)	Thurs (1/20)	Fri (1/21)
MLK Day (No Class)	Supply Chain Management		Beer Game	Supply Chain Management
	Supply Chain Operations			Supply Chain Operations

Week 4

Mon (1/24)	Tues (1/25)	Wed (1/26)	Thurs (1/27)	Fri (1/28)
Global Strategy (2 hrs)			Supply Chain Management	**Exam #1**
Supply Chain Operations				**Tour/Speaker**
	Project Mentoring			

Week 5

Mon (1/31)	Tues (2/1)	Wed (2/2)	Thurs (2/3)	Fri (2/4)
Negotiation Workshop				Quiz & Supply Chain Management
				Toyota Tour
	Project Mentoring			

Week 6

Mon (2/7)	Tues (2/8)	Wed (2/9)	Thurs (2/10)	Fri (2/11)
Supply Chain Management	Pre-FINS	FINS Exercise		**Exam #2**
Supply Chain Operations	SC Procs. & Ops.			**Tour/Speaker**

Week 7

Mon (2/14)	Tues (2/15)	Wed (2/16)	Thurs (2/17)	Fri (2/18)
Supply Chain Management	Six Sigma Review Session	Supply Chain Management		Quiz & Supply Chain Management
Supply Chain Operations	Supply Chain Management	Supply Chain Operations		
		Project Mentoring		

Week 8

Mon (2/21)	Tues (2/22)	Wed (2/23)	Thurs (2/24)	Fri (2/25)
Six Sigma Green Belt Exam	Supply Chain Management		LINKS Simulation Presentations	Quiz & Supply Chain Management
	Supply Chain Operations			
	Project Mentoring			
	Career Fair			

Week 9

Mon (2/28)	Tues (3/1)	Wed (3/2)	Thurs (3/3)	Fri (3/4)
Project Connect Presentations				

Supply Chain Operations Schedule

Date	Topic	Chapter
Jan. 18	Introduction	1
	Competitiveness, Strategy & Productivity	2
Jan. 19	Forecasting	3
Jan. 21	Forecasting	3
	Linear Programming	6S
Jan. 24	Linear Programming	6S
Jan. 25	Inventory Management	12
Jan. 26	Inventory Management	12
Jan. 27	Inventory Valuation & Counting	
Feb. 7	Aggregate Planning	13
Feb. 14	MRP & ERP	14
Feb. 16	Transportation	
Feb. 17	Transportation	
	Purchasing	
Feb. 22	Global Logistics	
Feb. 23	International Trade	