Desired Term and Year of Implementation (e.g., Fall 2023): Spring 2017

Course is to be considered for G.E.? (If yes, also fill out appropriate GE form*)  Yes  No

Course will be a variable-topics (generic) course?  Yes  No

Course abbreviation and Number:* OM 443

Title: (Titles using jargon, slang, copyrighted names, trade names, or any non-essential punctuation may not be used.)
Supply Chain Information Management

Abbreviated Title for PeopleSoft:
(no more than 25 characters, including spaces)
Supply Chain Information

Number of Units: 4

Catalog Description: (Not to exceed 80 words; language should conform to catalog copy. Please consult the catalog for models of style and format; include all necessary information regarding consent for enrollment, pre- and/or corequisites, repeated enrollment, crosslisting, as detailed below. Such information does not count toward the 80-word limit.)

This course provides students with an understanding of how modern supply chain systems function with the aid of technology. Topics include MRP systems, MRP II systems, DRP systems, ERP systems, Supply Chain Management Data Structures and Advanced Planning.

Why is this course being proposed?

The course fits within the Global Supply Chain Management Option by adding a practical component to concepts learned in the OM core courses (305 and 428). Recently we have completed an industry wide survey to find out the skills necessary for GSCM option graduates. According to data gathered in this survey we have concluded that our graduate student lack the understanding of resource planning technology. This course aims to equip our students with an understanding of how modern supply chain systems function with the aid of technology. As such, the course is a true complement to the existing courses in the option. As evident in the proposed syllabus, the course also employs a learn-by-doing pedagogy and emphasizes practical application.

Mode of Instruction*

For definitions of the Course Classification Numbers:
http://www.csusm.edu/academic_programs/curriculumschedulings/coursecurricula/DOCUMENTS/curricular_forms_table/InstructionalMode%20Conventions.pdf

<table>
<thead>
<tr>
<th>Type of Instruction</th>
<th>Number of Credit Units</th>
<th>Instructional Mode (Course Classification Number)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture</td>
<td>4</td>
<td>C2</td>
</tr>
<tr>
<td>Activity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lab</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Grading Method:* Normal (N) (Allows Letter Grade +/-, and Credit/No Credit)
Normal Plus Report-in-Progress (NP) (Allows Letter Grade +/-, Credit/No Credit, and Report-in-Progress)
Credit/No Credit Only (C)
Credit/No Credit or Report-in-Progress Only (CP)

If the (NP) or (CP) grading system was selected, please explain the need for this grade option.

Course Requires Consent for Enrollment?  Yes  No

* If Originator is uncertain of this entry, please consult with Program/Department Director/Chair.
14. Course Can be Taken for Credit More than Once? □ Yes ☒ No
If yes, how many times? (including first offering)

15. Is Course Crosslisted? □ Yes ☒ No
If yes, indicate which course and check "yes" in item #22 below.

16. Prerequisite(s): ☒ Yes □ No BUS 204 or BUS 304

17. Corequisite(s): □ Yes ☒ No

18. Documentation attached:
☒ Syllabus □ Detailed Course Outline

19. If this course has been offered as a topic, please enter topic abbreviation, number, and suffix:* OM 484-1

20. How often will this course be offered once established?* Once a Year

PROGRAM DIRECTOR/CHAIR - COLLEGE CURRICULUM COMMITTEE SECTION:
(Mandatory information – all items in this section must be completed.)

21. Does this course fulfill a requirement for any major (i.e., core course or elective for a major, majors in other departments, minors in other departments)? ☒ Yes □ No
If yes, please specify:
Elective course for Global Supply Chain Management students

22. Does this course impact other discipline(s)? (If there is any uncertainty as to whether a particular discipline is affected, check "yes" and obtain signature.) □ Yes ☒ No
If yes, obtain signature(s). Any objections should be stated in writing and attached to this form.

<table>
<thead>
<tr>
<th>Discipline</th>
<th>Signature</th>
<th>Date</th>
<th>Support</th>
<th>Oppose</th>
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</tbody>
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SIGNATURES: (COLLEGE LEVEL):
Robert Abigail 2/18/16
1. Originator (please print or type name) Date 2/18/16
2. Program Director/Chair Date 2/18/16
3. College Curriculum Committee Date 2/19/16
4. College Dean (or Designee) Date

(UNIVERSITY LEVEL)
5. UCC Committee Chair Date
6. Vice President for Academic Affairs (or Designee) Date
7. President (or Designee) Date

FEB 19 2015
RECEIVED
BY: A.P.

* If Originator is uncertain of this entry, please consult with Program/Department Director/Chair.
California State University San Marcos
OM 484-1 Section 01, Spring 2016

Meeting: Tuesday and Thursday 5:00pm-7:00pm Location Markstein Hall 307
Instructor: Gavin Swigart
Email: gswigart@csusm.edu Phone: 760-443-1952
Office Hours: Tuesday and Thursday 7:00pm-8:00pm Location SBSB 2126
Prerequisites: Passing grade in BUS204 or 304, with a grade of C (2.0) or better.
Supplies: Notebook, calculator and optional items: laptop, iPad, or Kindle
Classroom Conduct: Be respectful of other students in the class as well as the instructor. Turn off all cell phones, pagers, i-pods and any other devices before class begins. Any disruptive student will be asked to leave the class and will not be allowed to return until they have spoken with the Dean of Students. Cheating is likewise not tolerated. Anyone caught cheating will receive a zero for the item in question and also will be referred to the Dean of Students.
Grading Scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>100% - 90%</td>
</tr>
<tr>
<td>B</td>
<td>89% - 80%</td>
</tr>
<tr>
<td>C</td>
<td>79% - 70%</td>
</tr>
<tr>
<td>D</td>
<td>69% - 60%</td>
</tr>
</tbody>
</table>

Grading Policy:

- Quizzes: 10%
- Projects: 40%
- Exams (2): 25%
- Final Exam: 25%

Quizzes: Quizzes will be used to gauge understanding and progress throughout the semester. We will have a weekly quiz to follow up on concepts and prepare students for the types of questions they may encounter on the exam.
Projects: The projects will cover a topic related to the use of ERP to solve or work with a Supply Chain Management concept.
Exams: There will be a total of two (2) mid-term exams and one (1) Final Exam. No make-up exams are allowed so please schedule availability on the dates provided.
Exam Schedule:
3/8/16       Exam #1
4/12/16      Exam #2
5/19/16      FINAL EXAM (4:00pm-6:00pm)

Accommodations: Students with disabilities who require reasonable accommodations must be approved for services by providing appropriate and recent documentation to the Office of Disabled Student Services (DSS). This office is located in Craven Hall 5205, and can be contacted by phone at (760) 750-4905, or TTY (760) 750-4909. Students authorized by DSS to receive reasonable accommodations should meet with me after class or during my office hours in order to ensure confidentiality.

Academic Honesty: All written work must be original work. Students are responsible for honest completion of their work including examinations. There will be no tolerance for infractions. If you believe there has been an infraction by someone in the class, please bring it to the instructor’s attention. The instructor reserves the right to discipline any student for academic dishonesty, in accordance with the general rules and regulations of the university. Disciplinary action may include the lowering of grades and/or the assignment of a failing grade for an exam, assignment, or the class as a whole. Incidents of Academic Dishonesty will be reported to the Dean of Students. Sanctions at the University level may include suspension or expulsion from the University.

Course Structure: Class time will be devoted to lecture and demonstration. I will provide out-of-class reading material assignments which will prepare you for the next lecture. The more time spent reading these assignments, the more time we can devote to advanced topics and activities in class.

Course Description: This course provides students with an understanding of how modern supply chain systems function with the aid of technology. An overview of the origins of information technology systems explains the fundamental structures still in place today. Topics include Materials Requirement Planning (MRP) systems, Manufacturing Resource Planning (MRP II) systems, Distribution Resource Planning (DRP) systems, Enterprise Resource Planning (ERP), Supply Chain Management Data Structures and Advanced Planning, and current and future trends in Supply Chain Information Management. Students will gain practical experience working with a real MRP, MRPII, DRP, and ERP with sample data. Projects will require students to apply classroom learning to solve real-world problems. Written work supporting the project will demonstrate student’s understanding of the topics and show application of the abstract techniques studied in the course.

Student Learning Objectives/Outcomes:

- Learn about the origins of, current state of, and future capabilities of MRP, MRPII, DRP, and ERP systems
- Gain an understanding of how MRP, MRPII, DRP, and ERP systems enable modern supply chain management
- Practical experience with using multiple MRP, MRPII, DRP, and ERP systems
- Understand future topics and trends for how technology will be used to effectively manage a supply chain
- Understand the organizational roles and responsibilities required for successful MRP, MRPII, DRP, and ERP implementation and use
- Gain understanding of how manufacturing and distribution systems work and how information technology enables control
- Develop appreciation for the scope and complexity of Supply Chain Management
<table>
<thead>
<tr>
<th>Week</th>
<th>Section</th>
<th>What you should learn</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1 – Business Information Systems</td>
<td>The purpose of business, the problems presented with controlling and managing, and how BIS can help businesses succeed</td>
</tr>
<tr>
<td>2, 3</td>
<td>2 – MRP: Material Requirements Planning</td>
<td>The first applications were MRP calculators. Bills of material and time-phased order point along with the methods employed are still in use today</td>
</tr>
<tr>
<td>3, 4</td>
<td>3 – MRP II: Manufacturing Resource Planning</td>
<td>Creating a closed-loop to validate the material plan, MRP II was created to link the resources required to make the materials to the plan.</td>
</tr>
<tr>
<td>4, 5</td>
<td>4 – ERP: Enterprise Resource Planning</td>
<td>Beyond just planning materials and resources, ERP envelops the entire enterprise and creates a common database for all functions in the organization</td>
</tr>
<tr>
<td>6, 7</td>
<td>5 – Case Study – SAP ERP</td>
<td>Global Bike International, live demos, and student projects</td>
</tr>
<tr>
<td></td>
<td>EXAM 1 – Covering sections 1 – 5</td>
<td></td>
</tr>
<tr>
<td>8, 9</td>
<td>6 – ERP System Implementation</td>
<td>Process of implementing the system, including business process mapping, data loading, and user training</td>
</tr>
<tr>
<td>9, 10</td>
<td>7 – Manufacturing Systems</td>
<td>Manufacturing Execution Systems seek to take the generalized plans created by MRP to the next level and create dedicated solutions that solve complex manufacturing issues</td>
</tr>
<tr>
<td>10, 11</td>
<td>8 – SCM: Supply Chain Management</td>
<td>SCM is a function that seeks to maximize the effectiveness of the supply chain, coordinating the flow of materials, information, and communication.</td>
</tr>
<tr>
<td>11, 12</td>
<td>9 – SCM Data Structures and Advanced Planning</td>
<td>How to organize data for the advanced tools available to help manage the supply chain and how these tools work</td>
</tr>
<tr>
<td>13, 14</td>
<td>10 – Case Study – SAP SCM</td>
<td>Work with APO (advance planner and optimizer), SNC (supply network collaboration), F&amp;R (forecasting and replenishment), EM event management, and EWM (extended warehouse management) modules. Student projects.</td>
</tr>
<tr>
<td></td>
<td>Exam 2 – Covering sections 6 – 10</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>11 – Current and Future Trends</td>
<td>Cloud and internet-based ERP to extend ERP’s reach beyond organization’s walls. RFID’s integration into the supply chain. Automation.</td>
</tr>
<tr>
<td></td>
<td>Final Exam – Cumulative</td>
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