Course Information

Course Number/Section	OPRE/MIS 6369/ 0W1, 0W2
Course Title	Supply Chain Software
Term	Fall 2016

Professor Contact Information

Professor	Gene Deluke
Office Phone	972-883-4808
Other Phone	
Email Address	Use elearning messages for communication
Office Location	JSOM 1 – 3.419
Office Hours	On campus Tuesday 10-11am, Online Thursday 2-3pm
TA Information	Anirudh Krishnan

About the Instructor

Gene Deluke is a full time Senior Lecturer in the Jindall School of Management. He teaches undergraduate and graduate courses in Operations Management and Supply Chain Management. Prior to joining UTD in 2005 he worked in industry for 20+ years gaining experience in Operations and Supply Chain Management as well as a MIS Manager and Senior Consultant.

Course Pre-requisites, Co-requisites, and/or Other Restrictions

OPRE 6366 Supply Chain Management or permission of instructor

Course Description

Course Description: This course teaches supply chain management business processes and how commercially available software applications such as SAP ERP and Advanced Planner & Optimizer (APO) support those business processes. This software is used in lab exercises that provide students with credible hands-on experiential learning experience. The focus is on the supply planning function of supply chain management. Topics include: introduction to ERP and SAP, SAP navigation techniques, master and transaction data, demand management, MRP, forecasting, supply network planning, and integration of ERP and APO modules. This course is intended for graduate students with interests in software-based supply chain management. Previous experience with SAP software is helpful but not required. The course includes actual case studies of software implementations.

Student Learning Objectives/Outcomes

Upon completion of this course students will be able to:

1. Explain the concept of a supply chains and explain their role in a global economy.
2. Navigate the SAP user interface to create, modify or access information related to supply chain management.
3. List the SAP R3 master data objects used in supply chain management.
4. Create the following SAP master data objects: 1) material master, 2) Bill of Material master, 3) Work Center master, 4) Routing master, 5) Vendor master, 6) Purchasing information record.
5. Explain the concept of Demand Management within a SAP environment and select an appropriate strategy for various demand fulfillment models.
6. Run the SAP MRP program and interpret the results.
7. Explain the essential elements of the SAP Core Interface (CIF) and Integration Models.
8. List the SAP APO master date objects used in supply chain management.
9. Create a forecast using SAP APO.
10. Release a forecast for supply network planning

11. Execute the heuristic algorithm in APO Supply Network Planning to perform supply and demand matching and interpret the results.

Required Textbooks and Materials

Required Texts

Students should NOT purchase the 1st or 2nd edition as there are many enhancements to lab exercises Students may purchase the 2nd edition REVISED PRINTING from the on-campus or off-campus book stores or directly from the publisher at KendallHunt.com.

- SAP SCM - A supplement for SAP-based SCM Courses, 2nd edition REVISED PRINTING.
  Publisher Kendall Hunt, Author Gene Deluke
  ISBN 9781465280251 (hard copy)
- E-book
  KendallHunt.com
  ISBN 978-1-4652-3533-6

Required Materials

Calculator

Suggested Course Materials

Suggested Readings/Texts

- Instructor will provide a bibliography of suggested readings but all exam questions and problems will come from the required text.

Suggested Materials

None

Textbooks and some other bookstore materials can be ordered online through Off-Campus Books http://www.offcampusbooks.com or the UT Dallas Bookstore http://www.bkstr.com/texasatdallasstore/home. They are also available in stock at both bookstores.

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Technical Requirements

In addition to a confident level of computer and Internet literacy, certain minimum technical requirements must be met to enable a successful learning experience. Please review the important technical requirements http://www.utdallas.edu/elearning/students/getting-started.html#techreqs on the Getting Started with eLearning webpage http://www.utdallas.edu/elearning/students/getting-started.html.

Course Access and Navigation

The course can be accessed using the UT Dallas NetID account at: https://elearning.utdallas.edu. Please see the course access and navigation http://www.utdallas.edu/elearning/students/getting-started.html#courseaccessandnav section of the site for more information.

To become familiar with the eLearning tool, please see the Student eLearning Tutorials http://www.utdallas.edu/elearning/students/eLearningTutorialsStudents.html.

UT Dallas provides eLearning technical support 24 hours a day/7 days a week. The eLearning Support Center http://www.utdallas.edu/elearninghelp services include a toll free telephone number for immediate assistance (1-866-588-3192), email request service, and an online chat service.

Communication
This course utilizes online tools for interaction and communication. Some external communication tools such as e-learning messages and a web conferencing tool may also be used during the semester. For more details, please visit the eLearning Tutorials webpage http://www.utdallas.edu/elearning/students/eLearningTutorialsStudents.html for video demonstrations on eLearning tools.

Student emails and discussion board messages will be answered within 3 working days under normal circumstances.

Distance Learning Student Resources
Online students have access to resources including the McDermott Library, Academic Advising, The Office of Student AccessAbility, and many others. Please see the eLearning Current Students page http://www.utdallas.edu/elearning/students/cstudents.htm for details.

Server Unavailability or Other Technical Difficulties
The University is committed to providing a reliable learning management system to all users. However, in the event of any unexpected server outage or any unusual technical difficulty which prevents students from completing a time sensitive assessment activity, the instructor will provide an appropriate accommodation based on the situation. Students should immediately report any problems to the instructor and also contact the online eLearning Help Desk http://www.utdallas.edu/elearninghelp. The instructor and the eLearning Help Desk will work with the student to resolve any issues at the earliest possible time.

Assignments & Academic Calendar

WEEK/ DATES	TOPIC/LECTURE	READING	ASSESSMENT / ACTIVITY	DUE DATE
1 8/22-8/26	Instructor Intro Syllabus Review Unit 2 (A,B) - Introduction to SAP	Ch 1, 2	Syllabus Assessment Quiz Install SAP GUI	
2 8/29- 9/2	Unit 1 (A,B) - Introduction to Supply Chain Management Product Definition Process	Ch 6, 7, 8	SAP Navigation	Not to be submitted
3 9/5- 9/9	Unit 3 (A,B) – SAP Master Data Material Master Unit 4 (A,B) - SAP Master Data BOM Master Material Master demo Bill of Material Master demo	Appendix A	Lab 1, Material Master Lab 2, BOM Master	Lab 1, 9/13 Lab 2, 9/14

4 9/12- 9/16	Unit 5 - SAP R3 Purchasing Master Data Business Case 1 demo Production Definition Process Unit 6- SAP R3 Master Data – Work Center Calculating Capacity demo		Business Case 1 Lab exercise 3	BC1 9/20 Ex 3, 9/21
5 9/19- 9/23	Unit 7 (A,B) - SAP R3 Master Data Routing Master Unit 8 - SAP R3 Master Data Prod. Version Calculating Lead Time White Board Session Video – Manufacturing Processes		Lab exercise 4	Ex 4, 9/28
6 9/26- 9/30	Unit 9 - SAP R3 Demand Management Material Planning Process Demand Management White Board Sessions (2) Unit 10 (A only) - SAP R3 MRP		Business Case 2G	BC2G 10/10
7 10/3- 10/7	Unit 10 (B,C,D)SAP R3 MRP Video – MRP at Wheeler Ambulance Material loss demo Business case 2 demo MRP Explosion demo Lot Sizing demo Basic Scheduling demo		Business Case 2G	BC2G 10/10
8 **10/10- 10/14**	**10/13 or 10/14 Mid-Term Exam (on-line) at Testing Center.**	**Exam 1**		
9 10/17- 10/21	Unit 11 - Introduction to SAP APO Unit 12- SAP Core Interface (CIF)			
10 10/24- 10/28	Unit 13 - APO Master Data	Lab exercise 7	Not to be submitted	

11 **10/31-11/4**	**11/3, or 11/4** **SAP for Industrial Machinery and Components at RTI Industries – case study** **Supply Chain Management at SI Corporation – case study**	**Ch 11 Online case study assessments. Specific dates to be announced.**		**Ch 11**
12 11/7-11/11	Unit 14 (A,B)- Demand Planning basics Video – Forecasting at Hard Rock Café			Data Analysis & Statistical Selection
13 11/14-11/18	Unit 15 (A,B)- Demand Planning in APO Unit 16 - Releasing the Demand Plan in APO		Lab exercise 8	Ex 8, 11/30
14 **11/21-11/25**	Fall Break – No Classes Go Cowboys!			
15 11/28-12/2	Unit 17 (A,B) - Supply Network Planning in APO Unit 17(C,D) -Supply Network Planning in APO		Lab exercise 9	Ex 9, 12/7
16 12/5-12/7	Supply Chain Engineer SAP Implementation Methodology		Lab exercise 9	Ex 9, 12/7
17 12/12 12/16	**12/12 or 12/13 Final Exam (on-line) at Testing Center.**	**Exam 2**		

Proctored Final Exam Procedures

If your course has a proctored exam requirement, please see the Student Success Center Proctored Exam website http://www.utdallas.edu/studentsuccess/testingcenter/proctored_exams/index.html to make arrangements.

Grading Policy

Weights

Midterm exam	35	%
Final exam	35	%
Lab Exercises	20	%
Case Study Assessment Quizzes	10	%
Total		100%

Grading Scale

Scaled Score	Letter Equivalent
90-100	A
80-89	B
60-79	C
Less than 60	F

The instructor does NOT award +/- letter grades for graduate classes.

Course Policies

Makeup Exams

Students are expected to take exams during the regular scheduled dates. Make-up exams will be allowed for instances of severe hardship or serious illness.

Extra Credit

An extra credit opportunity will be announced after the midterm exam.

Late Work

Hands-on exercises may be submitted up to 24 hours after the due date. However, a 15% reduction in grade will be assessed. All lab exercises will be submitted using the Assignments function of eLearning. Attaching lab exercises to emails or e-learning messages is NOT a valid method of submitting exercises. After the 24 hour grace period there is no opportunity to submit late work.

Students may discuss lab exercises but each student is expected to do his/her own work including the software data entries and responses to Discussion Questions and problems. Therefore it is expected that your lab exercise submissions should NOT be identical to another student. It this occurs a referral to the Office of Judicial Affairs may result.

Special Assignments

Instructor will schedule several online web conferences during the semester. Students are encouraged but not required to attend live or watch the recorded sessions.

Class Participation

Students are required to login regularly to the online class site. The instructor will use the tracking feature in eLearning to monitor student activity. Students are also required to participate in all class activities such as discussion board, chat or conference sessions and group projects. **It is especially important for students to regularly check for announcements or elearning messages from the instructor.**

Virtual Classroom Citizenship

The same guidelines that apply to traditional classes should be observed in the virtual classroom environment. Please use proper netiquette when interacting with class members and the professor.

Comet Creed

This creed was voted on by the UT Dallas student body in 2014. It is a standard that Comets choose to live by and encourage others to do the same:

"As a Comet, I pledge honesty, integrity, and service in all that I do."

UT Dallas Syllabus Policies and Procedures

The information contained in the following link constitutes the University's policies and procedures segment of the course syllabus.

Please go to http://go.utdallas.edu/syllabus-policies for these policies.

The descriptions and timelines contained in this syllabus are subject to change at the discretion of the Professor.