

Supply Chain Management
Course Number: 29:799:450
Course Title: Fundamentals of Supply Chain
Solutions w/ SAP

COURSE DESCRIPTION

This course provides a technical overview of Enterprise Resource Planning Systems and their role within an organization. It introduces key concepts of integrated information systems and explains why such systems are valuable to businesses. SAP ECC is introduced to illustrate the concepts, fundamentals, framework, general information, technology context, technological infrastructure, and integration of enterprise-wide business applications. In addition to lectures, students will be guided through several hands-on activities of various business processes in SAP ECC.

COURSE MATERIALS

There is no required textbook for the course. It is impossible for one book to cover all the aspects of ERP design and implementation. Instead, I will gradually post course materials on Canvas, under the “Course Documents” folder.

LEARNING GOALS AND OBJECTIVES

This course is designed to help students develop skills and knowledge in the following area(s):

▪ **Business knowledge.** Students will have a command of business theory and practice in the field of supply chain management.

Students who complete this course will demonstrate:

- a) Mastery of fundamental business concepts and an ability to integrate and apply these concepts to resolve practical business problems.
- b) Proficiency at analyzing and interpreting numerical data to resolve practical business problems.
- ▪ **Global perspective.** Students will have the breadth of perspective necessary to lead effectively function in a global and diverse business environment.

Students who complete this course will demonstrate:

- a) An understanding of how to conduct business internationally.

- ✦ **Persuasive communication.** Students will be effective communicators.

Students who complete this course will demonstrate:

- a) Ability to construct clear, concise, and convincing written business communication.

Students develop these skills and knowledge through the following course activities and assignments:

- ✦ **Lectures.** Besides delivering basic concepts, architecture and terminology of an ERP system, the lectures focus on various business functional areas, such as procurement, production, sales, inventory and accounting, and explain how they are related, realized, and integrated by an ERP system. In addition, the deployment of ERP systems for companies in a global and diverse business environment will be introduced.

- ✦ **Research Paper.** Each student is required to individually complete a 5 page research paper on the advantages and development directions of ERP systems under the guidance of the instructor. This will help students better master the basic concepts of ERP, understand the need and examine the capabilities of ERP systems. The challenge is how to cover all the necessary contents with sufficient justifications and evidence within 5 page limit.

- ✦ **Labs.** Five required labs in SAP ECC 6.0 will be assigned for students to acquire experience in using ERP software that can be applied in future coursework and career. Each lab will deal with one functional area in real business. This can help students understand how basic business concepts are realized in reality using ERP systems. Students can continue working on them until the deadlines specified in the course schedule.

- ✦ **Exam.** Basic ERP system concepts will be tested and an ERP system implementation case will be studied for students to gain some experience on real business problems.

- ✦ **Project.** Each student will be asked to submit a writeup regarding the necessary transactions in the SAP ECC system on sales planning, production planning, procurement, production control, inventory management, and sales and delivery by following a given business case. Business process integration, the critical feature of ERP systems, will be experienced in this project.

DEADLINE EXTENSION AND EXAM MAKE-UP POLICIES

Deadlines will not be extended (late submissions will not be graded) unless you have a serious reason, and, in such cases, you **must** notify the instructor (**3 days**) before the deadline.

There will be no make-up exams unless you have a serious reason, and, in such cases, you **must** notify the instructor (**5 days**) before the exams.

ACADEMIC INTEGRITY

I do NOT tolerate cheating. Students are responsible for understanding the RU Academic Integrity Policy <http://academicintegrity.rutgers.edu/>

I will strongly enforce this Policy and pursue *all* violations. On all examinations and assignments, students must sign the RU Honor Pledge, which states, “On my honor, I have neither received nor given any unauthorized assistance on this examination or assignment.” I will screen all written assignments through *SafeAssign* or *Turnitin*, plagiarism detection services that compare the work against a large database of past work. Don’t let cheating destroy your hard-earned opportunity to learn. See business.rutgers.edu/ai for more details.

ONLINE RESOURCES

www.sap.com

service.sap.com

help.sap.com

www.sapfans.com

GRADING

Research Paper	14%
Learning Lab I on Master Data	6%
Learning Lab II on FI/CO	4%
Learning Lab III on SD	4%
Learning Lab IV on MM	4%
Learning Lab V on PP	8%
Exam	40%
Individual Project	20%

A: [90, 100]; B+: [85, 90); B: [80, 85); C+: [75, 80); C: [70, 75); D: [60, 70); F [0, 60).

COURSE SCHEDULE

The following schedule is tentative. The actual pace may be adjusted at the discretion of the instructor.

Topics	Assignments
Syllabus and Course Introduction Introduction to SCM, ERP and SAP	
ERP Systems – Architecture	Research Paper assigned
SAP ECC Navigation ERP Implementation and Risk Control	
Organization Structure	Research Paper due
Master Data Overview FI/CO Master Data and SD Master Data Lab I (Part A) on FI/CO, SD Master Data	
MM Master Data	Lab I, Part A due
PP Master Data Lab I (Part B) on MM, PP Master Data)	
Financial Accounting (FI) and Controlling (CO) Lab II on FI/CO	Lab I, Part B due
Guest Lecture by Former Director, NA Supply Chain Integration Johnson & Johnson Consumer Companies, Inc. Topic: Supply Chain Integrations in J&J	
Sales and Distributions (SD) Lab III on SD	Lab II due
Materials Management (MM) Lab IV on MM	Lab III due
Case Study	
Production Planning (PP) Lab V on PP	Lab IV due
Review	Individual Project assigned
Project Discussions	Lab V due
Exam	
Exam Discussion Project Discussions	Project Due

SUPPORT SERVICES

If you need accommodation for a *disability*, obtain a Letter of Accommodation from the Office of Disability Services. The Office of Disability Services at Rutgers, The State University of New Jersey, provides student-centered and student-inclusive programming in compliance with the Americans with Disabilities Act of 1990, the Americans with Disabilities Act Amendments of 2008, Section 504 of the Rehabilitation Act of 1973, Section 508 of the Rehabilitation Act of 1998, and the New Jersey Law Against Discrimination. More information can be found at ods.rutgers.edu.

[Rutgers University-New Brunswick ODS phone (848)445-6800 or email dsoffice@echo.rutgers.edu]

[Rutgers University-Newark ODS phone (973)353-5375 or email ods@newark.rutgers.edu]

If you are *pregnant*, the Office of Title IX and ADA Compliance is available to assist with any concerns or potential accommodations related to pregnancy.

[Rutgers University-New Brunswick Title IX Coordinator phone (848)932-8200 or email jackie.moran@rutgers.edu]

[Rutgers University-Newark Office of Title IX and ADA Compliance phone (973)353-1906 or email TitleIX@newark.rutgers.edu]

If you seek *religious accommodations*, the Office of the Dean of Students is available to verify absences for religious observance, as needed.

[Rutgers University-New Brunswick Dean of Students phone (848)932-2300 or email deanofstudents@echo.rutgers.edu]

[Rutgers University-Newark Dean of Students phone (973)353-5063 or email DeanofStudents@newark.rutgers.edu]

If you have experienced any form of *gender or sex-based discrimination or harassment*, including sexual assault, sexual harassment, relationship violence, or stalking, the Office for Violence Prevention and Victim Assistance provides help and support. More information can be found at <http://vpva.rutgers.edu/>.

[Rutgers University-New Brunswick incident report link: <http://studentconduct.rutgers.edu/concern/>. You may contact the Office for Violence Prevention and Victim Assistance at (848)932-1181]

[Rutgers University-Newark incident report link: https://cm.maxient.com/reportingform.php?RutgersUniv&layout_id=7 . You may also contact the Office of Title IX and ADA Compliance at (973)353-1906 or email at TitleIX@newark.rutgers.edu. If you wish to speak with a staff member who is confidential and does **not** have a reporting responsibility, you may

contact the Office for Violence Prevention and Victim Assistance at (973)353-1918 or email run.vpva@rutgers.edu]

If students who have experienced a temporary condition or injury that is adversely affecting their ability to fully participate, you should submit a request via <https://temporaryconditions.rutgers.edu> .

If you are a military *veteran* or are on active military duty, you can obtain support through the Office of Veteran and Military Programs and Services. <http://veterans.rutgers.edu/>

If you are in need of *mental health* services, please use our readily available services.

[Rutgers University-Newark Counseling Center: <http://counseling.newark.rutgers.edu/>]

[Rutgers Counseling and Psychological Services–New Brunswick: <http://rhscaps.rutgers.edu/>]

If you are in need of *physical health* services, please use our readily available services.

[Rutgers Health Services – Newark: <http://health.newark.rutgers.edu/>]

[Rutgers Health Services – New Brunswick: <http://health.rutgers.edu/>]

If you are in need of *legal* services, please use our readily available services: <http://rusls.rutgers.edu/>

Students experiencing difficulty in courses due to *English as a second language (ESL)* should contact the Program in American Language Studies for supports.

[Rutgers–Newark: PALS@newark.rutgers.edu]

[Rutgers–New Brunswick: eslpals@english.rutgers.edu]

If you are in need of additional *academic assistance*, please use our readily available services.

[Rutgers University-Newark Learning Center: <http://www.ncas.rutgers.edu/rlc>

[Rutgers University-Newark Writing Center: <http://www.ncas.rutgers.edu/writingcenter>]

[Rutgers University-New Brunswick Learning Center: <https://rlc.rutgers.edu/>]

[Optional items that many faculty include:

- Students must sign, date, and return a statement declaring that they understand the RU Academic Integrity Policy.

- Students must sign, date, and return a statement declaring that they understand this syllabus.]