

Spring 2020

IS 455-102: Information Systems Management and Business Processes

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New Jersey Institute of Technology

Course Title: Information Systems Management	Richard Egan, PhD, egan@njit.edu 973 596 – DoNotCall Web.njit.edu/~egan
Course Number: IS455	Prerequisites/Required Background: See Below
Course Website: www.Canvas.njit.edu	Office hours are listed on my website or by appointment.
Catalog Information: http://catalog.njit.edu/undergraduate/computing-sciences/information-systems/#coursestext	

Overview

This course emphasizes how information systems enable core and supportive business processes, as well as those that interface with suppliers, partners and customers. It will discuss basic administrative, management, and policy issues associated with the impact of information systems on the user and organization. Topics include the definition, role and strategic uses of IS, enterprise computing architecture and infrastructure, security, privacy and ethics.

The second part of the course looks at Business Processes within organizations. What the Business process view is and why it is important, how IS can improve processes and how Enterprise Resource Planning (ERP) systems are being used to help with that improvement. A detailed look at two processes including hands on use of an ERP (SAP) system is included

Required Background

This course recommends completion of a 100 level course in the computing sciences: CS 101 or CS 111 or CS 113 or CS 115 or IS 118 as a prerequisite and requires junior standing. Students who are not Information Systems majors should have at least one introductory management course. Exceptions to this must be with the permission of the instructor. Exceptions may be done for part-time, adult students who have some work experience in an Information System environment. The course is intensive and taught as a senior level course.

Topics Covered

- Introduction to Systems and the Role of Managers
- Information Systems defined and it's role
- Competing in the Information Age
- E-Commerce
- Strategic uses of IS
- Security, Privacy and Ethics
- Business Process, what it is, why is it important
- Using IS to improve Processes
- Using ERP Systems to help improve processes
- Detailed look at two processes, Procurement and Sales with hands on tutorials

Text

See Canvas for the latest text information

Honor Code

Both NJIT and Rutgers students are expected to follow published guidelines on academic honesty and integrity. You must acquaint yourself with these policies before submitting any assignments. All written work must be original. Violations of NJIT/Rutgers policies will be reported to the Dean of Students at both institutions and may result in failure on a particular assignment, failure in the course, failure in the course and probation, or failure in the course and expulsion. Honor Code violations will be pursued immediately and aggressively. Please note: There will be no warnings or chances with regard to cheating. Any discovered case of cheating will be immediately passed to the Dean of Students for further investigation.

This is your warning now. Cheating is not worth it - you may not only fail this course, but also be suspended from NJIT. The full text of the NJIT Honor Code is available for your review at <http://www.njit.edu/academics/honorcode.php>

E-Mail and Canvas

All students MUST be setup with NJIT e-mail accounts that are activated. If there are messages that I need to send out, I will be using the standard method via pipeline and or Canvas. They both have all students in the class with their NJIT or default email.

Additionally, you need to make sure that you are also in the proper classes within Canvas. Canvas will be used as a vehicle for project groups to privately post discussions and e-mail each other. It is also the place where your grades are posted.

If you do not know how to activate your e-mail or update Canvas, call the help desk at 2900.

Too often students have not activated their NJIT e-mail or do not check it and miss out on the mailings that are sent. If you have a preferred e-mail, forward your NJIT mail there.

Grading

The approximate point weight of each assignment is:

Setup Assignment	10%
Assignments (8) inc. 2 hands on	60%
Discussion Forums (weekly)	15%
Implications (weekly)	15%
Total	100%

Hands-on Exercises

Hands-on integrated exercises are part of the text and as such provide the capability of actually using an ERP system. These exercises require the student to apply text concepts to “real-world” situations. This allows the student to experience what an employee in a process must do. The tutorials are in the Business Process text and the assignments in Canvas explain what is required for completion and submission.

Participation

Your participation in classroom discussions is expected, if you do not attend class or do not notify me of your absence before class, it will affect your participation grade. Both attendance AND participation, as well as on-line discussion boards will contribute to the participation grade

Attendance, Absence and Lateness Policy

You are expected to attend every class if you will not attend a class you should notify me that you will not be attending and the following guidelines apply:

If you are absent more than three (3) times you will have your grade lowered by **ONE** Letter grade.

Six (6) times and your grade is lowered by **TWO** letter Grades.

Nine (9) times you will be given an “**F**”.

Medical Excuses need to be reported to the Dean of Students and they will decide if it is to be excused or not.

Grading Scales

90% - 100 % = A

86% - 89% = B+

80% - 85% = B

76% - 79 % = C+

70% - 75 % = C

65% -69 % = D

0% - 64% = F

Exams - There are no exams

Course Schedule

Homework assignments are listed in Canvas, Note that there are weekly implications due before class and weekly online discussion during the week of class.

Class	Topic	Assignment
1	Introduction	
2	Information Systems - The Importance of MIS	Chapter 1
3	Business Processes, Information Systems, and Information	Chapter 2 – Chap 2 HW
4	Hardware, Software, and Networks	Chapter 3 – Chap 3 HW
5	Database Processing	Chapter 4– Chap 4 HW
6	Process Management, Systems Development and Security	Chapter 12– Chap 12 HW
7	Collaboration and IS	Chapter 9– Chap 9 HW
8	Social media and IS	Chapter 10 – Chap 10 HW
9	Business Intelligence	Chapter 11

10	Using IS to Improve Processes	Chapter 5
11	Supporting Processes with ERP Systems	Chapter 6
12	Supporting the Procurement Process with SAP	Chapter 7
13	Procurement Process Tutorial w/SAP	Appendix 7
14	Supporting the Sales Process with SAP	Chapter 8
15	SAP Sales Tutorial - Appendix 8	Appendix 8