Introduction to Enterprise Resource Planning Applications

ADMS 3502 – Section A
Fall 2025

Course Information

Course Instructor: Rehan Qureshi
Email: rehanq@yorku.ca
Office Hours: By appointment
Course Time & Days: Wednesdays,
4.00pm to 7.00pm,

Course eClass site:
https://eclass.yorku.ca/

Course Overview

Course Description and Prerequisites

Explains and demonstrates how Enterprise Resource Planning (ERP) Systems, a group of integrated software modules, run virtually all business processes in an organization. ERP Systems include modules such as management accounting, sales, logistics, production/materials management, procurement, and human resources. Prerequisites: AP/ADMS 2511 3.00 or AP/ITEC 1010 3.00. Course credit exclusions: None.

Course Learning Outcomes

By the end of this course, students will be able to:
1. Understand the fundamental concepts and issues of ERP systems.
2. Describe the key integration points between key functional areas of procurement, production, sales and marketing, and accounting.
3. Analyze business transaction data across multiple business processes to make effective decisions.
4. Perform business transactions using SAP ERP in procurement, production, sales and marketing, and accounting.
5. Work as part of a business team.
6. Communicate using the key terminology related to enterprise resource planning systems and business process integration.
7. Research for additional information about ERP systems and business process integration.

Course Format and Organization

This course is to be in-person. The time in class will be divided between lecture time, student presentations, teamwork activities using SAP ERP simulation game. Student

participation and involvement is a key part of the course, and weekly lecture attendance is expected.

Technical Requirements

Students will be required to bring their laptops to every class.

Course Expectations

- Students should read the assigned readings prior to coming to class.
- Attendance to weekly lectures is expected and part of the course evaluation.
- On average a student may need between 3 to 5 hours each week to prepare for class and complete the assigned homework.
- Teamwork is an important component of this class. Students are expected to make a fair contribution to their teams.

Course Evaluation

Assessment*	Weight %	Type	Course Learning Outcome
Research Article Presentation	10%	Group	1, 6, 5, 7
Research Article Critique	5%	Group	1, 6, 5, 7
ERPsim Intro Manufacturing Game Presentation	10%	Group	2, 3, 4, 5, 6
ERPsim Extended Manufacturing Game Presentation	15%	Group	2, 3, 4, 5, 6
Individual Assignment	15%	Individual	2, 4
Weekly attendance (includes ERPsim simulations and Research Article presentations)	10%	Individual	4, 5, 6
Midterm	15%	Individual	1, 2, 6
Final examination (during the examination period, TBA)	20%	Individual	1, 2, 6
TOTAL	**100%**		

*For due date see Course Schedule

Course Schedule: Weekly Readings and Activities

Required Course Materials

ERPsim Reading and Exercises Material:

To access the ERPsim materials students will need to purchase an access code through the course website. Cost: CAD $57.
https://erpsim.hec.ca/apps/register/?event=14141&gi=0D4166

Léger, P.-M., Robert, J., Babin, G., Derick, L., Pellerin, R., and Wagner, B. (2021). Participants' Guide: Manufacturing Game, ERPsim Lab, HEC Montréal.
Léger, P.-M., Pellerin, R. et Babin, G. (2011). Readings on Enterprise Resource Planning, ERPsim Lab, HEC Montréal.

Course Schedule

Session 1, September 3

- Course overview and resources.
- Introduction to the ERPsim Introduction Manufacturing Game.
- Importance and Impact of ERP Systems on Industry and Organization.

Readings:
- o Participant's Guide Manufacturing Game. Pages 7 to 35. (ERPsim)
- o Readings on Enterprise Resource Planning: Chapter 1: Importance and Impact of ERP Systems on Industry and Organization. (ERPsim)

Required:
- ✔ *Attendance required.*

Session 2, September 10

- ERPsim Introductory Manufacturing Game: Round 1 and 2 - Sales and Marketing - Production.
- Reports: Sales and Marketing; Logistics, Accounting, Production. (ERPsim)
- Why do Companies Implement ERP Systems?
- Process for Selecting an ERP System.

Readings:
- o Participant's Guide Manufacturing Game. Pages 36 to 42, pages 70-77 and 89-90. (ERPsim)
- o Participant's Guide Manufacturing Game. Pages 42-45 and 79-81. (ERPsim)
- o Readings on Enterprise Resource Planning: Chapter 2: Why do Companies Implement ERP Systems? (ERPsim)
- o Readings on Enterprise Resource Planning: Chapter 3: Process for Selecting an ERP System. (ERPsim)

Session 3, September 17

- ERPsim Introductory Manufacturing Game: Round 2, 3 and 4 - Planning and Procurement.
- Business Intelligence and ERPSim Reports
- ERP Implementation Methodologies and Strategies
- Critical success factors for ERP system selection, implementation and post-implementation.

Readings:
- o Participant's Guide Manufacturing Game. Pages 46-50 and 83-88. (ERPsim)
- o Readings on Enterprise Resource Planning: Chapter 4: ERP Implementation Methodologies and Strategies. (ERPsim)
- o Readings on Enterprise Resource Planning: Chapter 5: Critical success factors for ERP system selection, implementation and post-implementation.

Session 4, September 24

- ERPsim Intro Manufacturing Game Day.
- ERPsim game day presentation overview.
- ERPsim Data analytics.

Readings:
- o *Participant's Guide Manufacturing Game. Pages 1-50, pages 70-90.*

Session 5, October 1

- Midterm review
- ERPsim Intro Manufacturing Game - Presentations. (ERPsim)

Session 6, October 8

- ERPsim Extended Manufacturing Game: Rounds 1 and 2.
- Tailoring of ERP Systems.
- ERP system architecture.

Readings:
o Participant's Guide Manufacturing Game, (ERPsim Website). Pages 51 to 60.
o Readings on Enterprise Resource Planning: Chapter 6: Tailoring of ERP Systems.
o Readings on Enterprise Resource Planning: Chapter 8: ERP system architecture.

Required:
✔ ERPsim Extended Manufacturing Game: Play Round 1 and 2. (During class; *attendance required*)
✔ Presentation: (Team E): Chapter 6: Tailoring of ERP Systems. (article critique Team F)
✔ Presentation (Team F): Chapter 8: ERP system architecture. (article critique Team A).

Reading week, October 11-17

Session 7, October 22

Midterm exam

The exam covers all the materials from:
- Participant's Guide Manufacturing Game. Pages 1-50, pages 70-90.
- ERPsim Website: ERPsim readings discussed in class: Chapters 1, 2, 3, 4, and 5.

The exam will consist of a mix of multiple choice questions and open-ended questions.

Session 8, October 29

- ERPsim Extended Manufacturing Game: Rounds 3 and 4.
- Mid Term Review
- Change Management.
- Individual User Adaptation to ERP.

Readings:
o Participant's Guide Manufacturing Game, (ERPsim Website). Pages 51 to 60.
o Readings on Enterprise Resource Planning: Chapter 11: Change Management.

o   Readings on Enterprise Resource Planning: Chapter 13: Individual User Adaptation to ERP.

Required:
✔ ERPsim Extended Manufacturing Game: Play Round 3 and 4. (During class; *attendance required*)
✔ Presentation (Team G): Chapter 11: Change Management (article critique Team H).
✔ Presentation (Team H) Chapter 13: Individual User Adaptation to ERP. (article critique Team G)
✔ Individual Assignment – due Nov 5

Session 9, November 5

● ERPsim Extended Manufacturing Game. **Competition Day.**

Readings:
o   Participant's Guide Manufacturing Game. Pages 51 – 60.

Required:
✔ Extended Manufacturing Game: Competition Day. (Attendance required).
✔ ERPsim Extended Manufacturing Game Presentation. Delivered in-class and submitted on eClass (Due November 12, 4:00 pm). One submission per Group.

Session 10, November 12

● ERPsim Competition Day - Student Presentations

Required:
✔ ERPsim Extended Manufacturing Game Presentation. Delivered in-class and submitted on eClass (Due November 12, 4:00 pm). One submission per Group.

Session 11, November 19

● Course evaluation
● Individual Assignment Discussion
● Guest Speaker- Supply Chain and AI
● ERP-Related Careers
● Enhancing Decision Making through Performance Dashboards and Scorecards

Readings:
o   Readings on Enterprise Resource Planning: Chapter 14: ERP-Related Careers.
o   Readings on Enterprise Resource Planning: Chapter 17: Enhancing Decision Making through Performance Dashboards and Scorecards.

Required:
✔ Chapter 17: Enhancing Decision Making through Performance Dashboards and Scorecards

Session 12, November 26

- Guest speaker - Supply Chain Analytics in the real-world
- ERP game competition
- Final Exam Review

Session 13, Final exam

The details of the final exam will be released towards the end of the course, approximately during Session 11.

Research articles presentation and critique assignments

Students will be placed into groups at the beginning of the semester and each group will be expected to deliver a 10-15 minute presentation on an article assigned by the instructor and to lead the discussion in class. Similarly, each presenting team will be paired up with a critique team that will evaluate the presentation and deliver a critique both in-class and submitted on eClass. Presentations will be evaluated based on the organization, content, additional research, visual aids, questions, and class engagement. The guidelines are available on eClass.

Late submission:

There will be a deduction of 30% from the total assignment for each day late.

Weekly Attendance:

- ✔ Weekly attendance consists of 10% of the final grade.
- ✔ Attendance is required for the entire class (3 hours). There will be no part-marks for attending half of a lecture or part thereof.
- ✔ Students are allowed to miss one lecture without any penalty.
- ✔ There will be no make-up for missed lecture.

RELEVANT UNIVERSITY REGULATIONS

Waived requirement for Attending Physician Statements

Attending Physician Statements are not required as supporting documentation for students requesting deferred standing, petitions and appeals this fall. Senate approved extending the waiver of required Attending Physician Statements to December 31, 2023.

Explicit Course Policy on Student Use of Generative Artificial Intelligence (AI)

Students may only use generative artificial intelligence (AI) tools in this course so long as the following two conditions are met:
- Specific generative AI tools are used in accordance with the written guidelines provided for each assessment or activity, and

- The use of generative AI is documented and cited following citation instructions given in the syllabus.

Use of generative AI outside these two conditions will constitute academic dishonesty under York University's *Senate Policy on Academic Honesty*. As a student in this course, it is your responsibility to understand when and how generative AI tools can be used to complete your assessments and activities. If you do not know whether an online resource or tool can be used in this course, please contact your instructor for guidance.

Academic Integrity

As a student at York University, you have a responsibility to both understand and uphold the integrity of the academic experience. The Faculty of Liberal Arts & Professional Studies supports the International Center for Academic Integrity's definition of academic integrity. That is, you will be committed to acting in all academic matters, even in the face of adversity, with honesty, trust, fairness, courage, respect, and responsibility. Here is how you can demonstrate academic integrity in the completion of this course:

- **Respect the ideas of others**: Your course work should represent your own knowledge and ideas. You should not falsely claim credit for ideas that are not your own, by presenting another's work as yours. If you are quoting, paraphrasing, or summarizing another person's work in order to support your own ideas, identify the work and the author through proper citation practices. For more information about how to cite properly, use the Student Papers and Academic Research Kit (SPARK). You can improve your writing, research, and personal learning abilities through the Learning Commons, or by visiting the Writing Centre or ESL Open Learning Centre.
- **Respect your peers**: Know when you are allowed to collaborate. Ask your instructor about what group work entails when it comes to the sharing of work. In test situations and assignments, don't steal or give answers to your peers, whether in-person or online (e.g., in group chats and/or on third-party content-sharing websites, such as Chegg, Course Hero, etc.). Both cheating and aiding in a breach of academic honesty are violations of York University's academic honesty policy.
- **Respect your course instructor(s)**: Understand what your instructors are asking of you in class, as well as on assignments, tests and/or exams. If you are unsure, ask your professor or teaching assistant. They are committed to making you feel supported and want to assess you fairly and with integrity. Please do not submit the same piece of work for more than one course without your instructor's permission. That can be considered an act of cheating.
- **Respect yourself**: When you act with integrity, you know that your work is yours and yours alone. You do not allow others to take tests for you. You do not buy or otherwise obtain term papers or assignments. You do the work. As a result, you know that you *earned* the grades that you receive, so you can be proud of your York degree. By acting with integrity in your course work, you are also practising a valuable professional skill that is important in all workplaces.
- **Take responsibility**: If you have acted in an academically dishonest way, you can demonstrate courage and take responsibility for your mistake. You can admit your mistake to your course instructor as soon as possible.

Students who engage in academic dishonesty can be subject to disciplinary action under the *Senate Policy on Academic Honesty*. Your lack of familiarity with the Senate Policy does not constitute a defense against its application. Some academic offences can also constitute offences under the Criminal Code of Canada, which means that you may also be subject to criminal charges.

Deferred Exams: Deferred standing may be granted to students who are unable to write their final examination at the scheduled time or to submit their outstanding course work on the last day of classes. Details can be found at http://myacademicrecord.students.yorku.ca/deferred-standing

In order to apply for deferred standing, students must register at https://www.yorku.ca/laps/sas/academic-resources/deferred-exam-requests/

Reappraisals: Students may, with sufficient academic grounds, request that a final grade in a course be reappraised (which may mean the review of specific pieces of tangible work). Non-academic grounds are not relevant for grade reappraisals; in such cases, students are advised to petition to their home Faculty. Students are normally expected to first contact the course director to discuss the grade received and to request that their tangible work be reviewed. Tangible work may include written, graphic, digitized, modeled, video recording or audio recording formats, but not oral work. Students need to be aware that a request for a grade reappraisal may result in the original grade being raised, lowered or confirmed. For reappraisal procedures and information, please visit the Office of the Registrar site at: http://myacademicrecord.students.yorku.ca/grade-reappraisal-policy

Accessibility
While all individuals are expected to satisfy the requirements of their program of study and to aspire to achieve excellence, the University recognizes that persons with disabilities may require reasonable accommodation to enable them to perform at their best. The University encourages students with disabilities to register with Student Accessibility Services to discuss their accommodation needs as early as possible in the term to establish the recommended academic accommodations that will be communicated to Course Directors through their Letter of Accommodation (LOA).

Please let your instructor know as early as possible in the term if you anticipate requiring academic accommodation so that we can discuss how to consider your accommodation needs within the context of this course. Sufficient notice is needed so that reasonable steps for accommodation can be discussed. Accommodations for tests/exams normally require three (3) weeks (or 21 days) before the scheduled test/exam to arrange.
Religious Observance Accommodation
York University is committed to respecting the religious beliefs and practices of all members of the community, and making reasonable and appropriate accommodations to adherents for observances of special significance. Should any of the dates specified in

this syllabus for course examinations, tests, or deadlines conflict with a date of religious significance, please contact the instructor within the first three (3) weeks of class. If the date falls within the formal examination periods, you must complete and submit a [Religious Accommodation for Examination Form](#) at least three (3) weeks before the start of the exam period.

Intellectual Property

Course materials are designed for use as part of this particular course at York University and are the intellectual property of the instructor unless otherwise stated. Third-party copyrighted materials (such as book chapters, journal articles, music, videos, etc.) have either been licensed for use in this course or fall under an exception or limitation in Canadian copyright law. Students may not publish, post on an Internet site, sell, or otherwise distribute any course materials or work without the instructor's express permission. Course materials should only be used by students enrolled in this course.

Copying this material for distribution (e.g., uploading material to a commercial third-party website) may lead to a charge of misconduct according to York's *[Code of Student Rights and Responsibilities](#)*, the *[Senate Policy on Academic Honesty](#)*, and/or legal consequences for copyright violations.

Student Conduct in the Learning Environment

York University is committed to fostering teaching and learning environments that are free of disruptive and/or harassing behaviour, are physically safe, and conducive to effective teaching and learning. Students and instructors are expected to maintain a professional relationship characterized by courtesy, civility, and mutual respect and to refrain from actions disruptive to such a relationship. Individuals who fail to adhere to such standards and who violate University or public law may be subject to disciplinary action by the University.

For more information, see the policies on [Disruptive and/or Harassing Behaviour in Academic Situations](#) and [Student Conduct and Responsibilities](#), as well as the *[Code of Student Rights & Responsibilities](#)*.

Effective Date: September 4, 2024