

CSCI 6920 - Theory and Practice of Information Systems

Fall 2026 Syllabus, Section 01, CRN 42709,

Credit hours: 3

Instructor

Angello Astorga

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Public Instructor Information

Instructor Title: Part-Time Faculty

Instructor Professional Qualifications:

Ph. D., Computer Science, University of Illinois Urbana-Champaign, 2024

Bachelor's, Computer Science and Engineering, The Ohio State University, 2015

Instructor Office Location: Meshel Hall 324

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Course Description

6920. Theory and Practice of Information Systems. A study of the relationship of information systems to individuals, organizations, and society. A detailed study of the principles, methodologies, and issues associated with designing, implementing, and administering information systems as a resource in a networked, data-driven organization. 3 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Introduction to Information Systems, Patricia Wallace 5th Edition		

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Tentative Course Schedule

Week of	Reading(s)	Proposed Topic	Due/To Prepare for Class
8/24	Chapter 1	Introduction: Information Systems and People	
8/31	Chapter 2	Information Systems and Strategy	
9/7	Chapter 3	ICT: Enterprise Architecture (Cloud, 5G, etc.)	
9/14	Chapter 4	Databases and Data Warehouses (SQL, Blockchain)	
9/21	Chapter 5	Enterprise Systems (ERP, CRM, SCM)	
9/28	Chapter 6	Digital Presence: Web, Social Media, Mobile Apps	
10/5	Chapter 7	Business Intelligence & Analytics (AI, ChatGPT)	
10/12		Midterm Exam #1 (Ch. 1–7)	Midterm 1
10/19	Chapter 8	Collaboration Technologies & Metaverse	
10/26	Chapter 9	Knowledge Management & E-Learning	
11/2	Chapter 10	Ethics, Privacy, and Security	

11/9	Chapter 11	Systems Development & Procurement (Agile, Waterfall)	
11/16	Chapter 12	IS Project Management & Strategic Planning	
11/23		Student Group Presentations (Final Project Work)	Work on Final Project
11/30		Midterm Exam #2 (Ch. 8– 12)	Midterm 2
12/7		Final Project Due	Final Project Due

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.