

CSCI 6991 - Data Engineering Capstone

Fall 2026 Syllabus, Section 01, CRN 42624,

Credit hours: 3

Instructor

Feng Yu

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Public Instructor Information

Instructor Title: Professor

Instructor Professional Qualifications: Ph.D., Computer Science, Southern Illinois University, 2013

Instructor Office Location: Meshel Hall 316

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Course Description

6991. Data Engineering Capstone. This capstone project is designed so students in the MCIS program get the chance to apply and demonstrate their skills and knowledge in SQL, NoSQL, RDBMS, Bash, Python, ETL, Data Warehousing, Machine and Deep Learning, BI tools, Big Data, Cloud and Distributed Computing, Networking and Security and Software Engineering. To be taken during the last semester of studies. Prereq.: Nine semester hours of computer science courses numbered above 5000 and graduate standing. 3 s.h.

Course Readings

Group	Title	Author	ISBN
	no readings		

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

Schedule of Topics and Assignments

Week of	Proposed Topic	Due/To Prepare for Class
8/24	Syllabus, project topics	
8/31	Literature survey	Project group sign-up
9/7	Project management	
9/14	Team collaboration	Project proposal
9/21	Project group meeting	
9/28	Project group meeting	
10/5	Project group meeting	
10/12	Mid-term summary meeting	Project mid-term report
10/19	Project group meeting	
10/26	Project group meeting	
11/2	Project group meeting	
11/9	Project group meeting	
11/16	Project group meeting	
11/23	Project group meeting	
11/30	Project group meeting	Project presentation
12/7	Wrap-up	Project final report

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.