

Administrative Master Syllabus

Course Information

Course Title	Information Storage and Management
Course Prefix, Num. and Title	ITNW 1335 - Information Storage and Management
Division	Technology and Business
Department	Information Technology and Management
Course Type	WECM Course
Course Catalog Description	An introduction to data storage-related technologies. Topics include data storage for cloud, Big Data, mobile, social media, and software-defined data centers. Provides a strong understanding of storage technologies and prepares students for advanced concepts, technologies, and processes.
Pre-Requisites	ITNW 1325
Co-Requisites	None

Semester Credit Hours

Total Semester Credit Hours (SCH): Lecture Hours:	3:2:2
Lab/Other Hours	
Equated Pay Hours	3
Lab/Other Hours Breakdown: Lab Hours	2
Lab/Other Hours Breakdown: Clinical Hours	0
Lab/Other Hours Breakdown: Practicum Hours	0
Other Hours Breakdown	0

Approval Signatures

Title	Signature	Date
Department Head:	Muna Saqer, Comp Sci and IT&N Program Director	11-16-2023
Division Chair:	David Kucera, Technology & Business Division	11-16-2023
VPI:		



Additional Course Information

Topical Outline: Each offering of this course must include the following topics (be sure to include information regarding lab, practicum, and clinical or other non-lecture instruction).

Topical Outline – Each offering of this course must include the following topics (be sure to include information regarding lab, practicum, clinical or another non-lecture instruction):

- Information growth and challenges
- Define a storage system and its environment
- Review the evolution of storage technologies
- Introduce intelligent storage systems
- SCSI and Fiber Channel architecture
- Direct-attached storage (DAS)
- Storage area networks (SANs)
- Network-attached storage (NAS)
- Internet Protocol SAN (IP-SAN)
- Content-addressed storage (CAS)
- Storage virtualization
- Introduce business continuity
- Backup and Recovery
- Local Data Replication
- Remote Date Replication
- Storage security
- · Storage infrastructure monitoring and management

Course Learning Outcomes:

Learning Outcomes – Upon successful completion of this course, students will:

- Differentiate storage architectures and key data center elements
- Explain the components of storage infrastructure including subsystems, RAID and intelligent storage systems
- Demonstrate network technologies used in storage systems
- Outline storage the benefits components, management issues and requirements of Storage Area Networks (SANs)
- Create or adapt contingency plans for backup, replication and archiving
- Recommend information security requirements and solutions
- List SAN management issues and requirements

Methods of Assessment: All outcomes will be assessed by one or more of the following:

Individual/Group Assignments Individual/Group Projects Reading Assignments Presentations Lab/Assignments Quizzes/Tests/Exams



Required text(s), optional text(s) and/or materials to be supplied by the student:

Information Storage and Management: Storing, Managing, and Protecting Digital Information; Author: EMC Cooperation; Publisher: Wiley (Latest edition)

Suggested Course Maximum:

18

List any specific or physical requirements beyond a typical classroom required to teach the course.

- Current VMware Workstation for each student and instructor
- Antivirus software for each student and instructor
- Computer (64-bit CPU, 12 GB Ram, graphics cards, monitors, for each student
- Removable hard drive for each student and instructor (1 TB hard drive)
- Laser Printer
- Cat 5 network cable, RJ-45 jacks and crimper for each student and 2 cable testers
- Instructor needs 2 monitors, 2 NICs, & Data projector

Current lab equipment has the capability for 18 students

Course Requirements/Grading System: Describe any course specific requirements such as research papers or reading assignments and the generalized grading format for the course.

Labs:	20-40%
Homework:	20-40%
Tests& Final Exam:	40-60%
Attendance & Participation:	0-20%
Grade System:	
90-100%=A	
80-89%=B	
70-79%=C	
60-69%=D	
Below 60% =F	

Curriculum Chacklists

riculum Cr	necklist:
□Administra	tive General Education Course (from ACGM, but not in WCJC Core) – No additional documents needed.
□Administra	tive WCJC Core Course. Attach the Core Curriculum Review Forms
	Critical Thinking
]Communication
	Empirical & Quantitative Skills
]Teamwork
	Social Responsibility
	Personal Responsibility

⊠WECM Course -If needed, revise the Program SCANS Matrix and Competencies Checklist