

# IS102 Foundations of Informatics II

## Spring 2010 SYLLABUS

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Prof Frank Vanecek, DBA; Prof Danielle Zeedick, MA, CNE**

**TEXT: Evans, A. K. Martin, & M. A. Poatsy (2009). *Technology in Action*, Sixth Edition.  
Prentice Hall / Pearson (ISBN 978-0-13-504624-1). Also used for IS101.**

Wk	Day	Lect #	Prof	Date	DEWEY 309 MW 14:30-15:45	Ch	PP to read before	Sound Bytes (TIA Disk 1)
1	M	1	ALL	18-Jan	Course intro; meet instructors; purpose; structure; expectations; SQ3R		SCAN BOOK	
	W	1	MK	20-Jan	Demonstrate CD-ROMs & option to talk with instructor		EXPLORE CDs & LAB	
2	M	2	MK	25-Jan	Networking and Security (1): Connecting Computers and Keeping Them Safe from Hackers and Viruses -- networks, client/server, P2P, hardware, home networks, Ethernet, wireless, powerline networks, setting up a network, hackers, firewalls, wireless security, viruses, antivirus	7	316-356	Protecting Your Computer; Home Network; Firewall; Wireless Networks
	W	2	MK	27-Jan	Quiz on Lecture 2 material & option to talk with instructor			
3	M	3	MK	1-Feb	Technology in Focus: Protecting Your Computer and Backing Up Your Data	7	364-377	Personal Firewall; Surge Protectors/UPSs
	W	3	MK	3-Feb	Quiz on Lecture 3 material & option to talk with instructor			
4	M	4	PS	8-Feb	Mobile Computing -- advantages, limitations, types, cell phones, media players, PDA/smartphones, synchronizing, tablet PC, notebooks	8	380-412	PDA / Smartphones; Bluetooth; Tablets
	W	4	PS	10-Feb	Quiz on Lecture 4 material & option to talk with instructor			
5	M	5	MK	15-Feb	Technology in Focus: Digital Entertainment	8	420-435	
	W	5	MK	17-Feb	Quiz on Lecture 5 material & option to talk with instructor			
6	M	6	FV	22-Feb	Behind the Scenes: A Closer Look at System Hardware -- switches, binary, CPU components, processing, GPU, cache, RAM types, bus, fast CPUs	9	436-464	Binary numbers; Where does Binary Show Up; Computer Architecture
	W	6	FV	24-Feb	Quiz on Lecture 6 material & option to talk with instructor			
7	M	7	DZ	1-Mar	Technology in Focus: Careers in IT	9	472-485	
	W	7	MK	3-Mar	<b>MID-TERM EXAM (1 HR) -- ALL MATERIAL TO DATE</b>			
8	M	8	DZ	8-Mar	Behind the Scenes: Building Applications -- SDLC, program life cycle, problem statement, algorithms, coding	10	486-506	Programming for End Users
	W	8	DZ	10-Mar	Quiz on Lecture 8 material & option to talk with instructor			
9	M			15-Mar	SPRING BREAK			
	W			17-Mar	SPRING BREAK			
10	M	9	DZ	22-Mar	Behind the Scenes: Building Applications -- compilers & interpreters, testing, documentation, languages	10	506-522	Looping around the IDE
	W	9	DZ	24-Mar	Quiz on Lecture 9 material & option to talk with instructor			
11	M	10	FV	29-Mar	Behind the Scenes: Databases and Information Systems -- defining DBs, benefits, components, data types, DBMSs	11	530-547	Creating an Access 2007 DB
	W	10	FV	31-Mar	Quiz on Lecture 10 material & option to talk with instructor			
12	M	11	FV	5-Apr	Behind the Scenes: Databases and Information Systems -- RDMSSs, data warehouses, information systems and business, data mining	11	547-568	Improving an Access 2007 DB
	W	11	FV	7-Apr	Quiz on Lecture 11 material & option to talk with instructor			
13	M	12	PS	12-Apr	Behind the Scenes: Networking and Security (2) -- business networks, client/server, P2P, classifications, components, servers, topologies	12	576-592	Network Topology and Navigation
	W	12	PS	14-Apr	Quiz on Lecture 12 material & option to talk with instructor			
14	M	13	MK	19-Apr	Behind the Scenes: Networking and Security (2) -- transmission media, network software, adapters, devices, security	12	592-614	What's My IP Address? A Day in the Life of a NW Tech
	W	13	MK	21-Apr	Quiz on Lecture 13 material & option to talk with instructor			
15	M	14	DZ	26-Apr	Behind the Scenes: The Internet: How it Works -- who owns 'Net, Internet mechanisms, data transmission & protocols, IP addresses, DNS, FTP, Telnet	13	622-636	
	W	14	DZ	28-Apr	Quiz on Lecture 14 material & option to talk with instructor			
16	M	15	DZ	3-May	Behind the Scenes: The Internet: How it Works -- HTTP, HTML, DHTML, CGI, SMTP, encryption, IM, VoIP	13	636-652	Creating Web Pages with HTML
	W	15	DZ	5-May	<b>FINAL EXAM (1 HR) -- Weeks 8-16</b>			