



University of Maryland University College Graduate School of Management & Technology

(For students who started their program prior to Fall 2007)

Please fill in the study plan, indicating course as completed.

Student Name _____ Empl id _____ Date _____

Master of Software Engineering ► MS in Information Technology with a specialization in Software Engineering

KEY:

- Courses highlighted in **bold blue** indicate core courses included in the Fall 2007 curriculum for the **Master of Science in Information Technology** (5 core courses needed).
- Courses highlighted in *italicized pink* indicate specialization courses included in the Fall 2007 curriculum for the **Software Engineering specialization** (7 specialization courses needed).

If Following Curriculum Prior to Fall 2007				
Prior to Fall 2007		Fall 2007 Course # and Title		
Required core courses				
Course #	Course Title	Course #	Course Title	Semester Completed
		ITEC 610	Information Technology Foundations	
		ITEC 620	Information Technology Infrastructures	
		ITEC 630	Information Systems Analysis, Modeling, and Design	
		ITEC 640	Information Technology Project Management	
		TMAN 625	Economics and Financial Analysis for	

			Technology Managers	
And seven specialization courses				
MSWE 601	Issues in Software Engineering	NA		
MSWE 603	Systems Engineering	SWEN 603	Systems Engineering	
MSWE 635	Software Systems Development	NA		
MSWE 640	Software Project Management	SWEN 640	Software Project Management	
MSWE 645	System and Software Standards and Requirements	SWEN 645	System and Software Standards and Requirements	
MSWE 646	Software Design and Implementation	SWEN 646	Software Design and Implementation	
MSWE 647	Software Verification and Validation	SWEN 647	Software Verification and Validation	
MSWE 648	Software Maintenance	SWEN 648	Software Maintenance	
Capstone : Must complete 27 hours of graduate coursework before enrolling in Capstone				
MSWE 617	Software Engineering Project	SWEN 670	Software Engineering Project	

Electives : Choose three				
Technical electives				
Old Course		New Course		Semester Completed
CSMN 611	Computer Organization	(ITEC 620)	IT Infrastructure	
CSMN 612	Operating Systems	INFA 610	Computer Security, Software Assurance, Hardware Assurance, and Security Management	

CSMN 614	Data Structures and Algorithms	BIFS 614	Data Structures and Algorithms	
CSMN 616	Parallel and Distributed Systems	(ITEC 620)	IT Infrastructures	
CSMN 617	Principles of Programming Languages	SWEN 645	Systems and Software Standards and Requirements	
CSMN 618	Knowledge-Based Systems	ISAS 640	Decision Support Systems and Expert Systems	
CSMN 655	Information Risk Assessment and Security Management	INFA 610	Computer Security, Software Assurance, Hardware Assurance, and Security Management	
CSMN 661	Relational Database Systems	DBST 651	Relational Database Systems	
CSMN 662	Advanced Relational/Object-Relational Database Systems	DBST 652	Advanced Relational/Object-Relational Database Systems	
CSMN 663	Distributed Database Management Systems	DBST 663	Distributed Database Management Systems	
CSMN 664	Object-oriented Database Systems	NA		
CSMN 665	Data Warehouse Technologies	DBST 665	Data Warehouse Technologies	
CSMN 667	Data Mining	DBST 667	Data Mining	
CSMN 681	Cryptology and Data Protection	INFA 640	Cryptology and Data Protection	
MSWE 697	Independent Research	NA		

MSWE 698	Advanced Topics in Systems and Software Engineering	NA		
MSWE 699	Advanced Topics in Software Engineering	NA		
TLMN 620	Local Area Networking Systems	ITEC 620	IT Infrastructure	
TLMN 625	Wide Area Network Systems	TLMN 623	Telecommunications Networks	
TLMN 636	Internet Technologies	ITEC 610	IT Foundations	
TLMN 641	Network Management and Design	TLMN 641	Network Management and Design	
TLMN 645	Wireless Telecommunications Systems	TLMN 641	Network Management and Design	
TLMN 672	Network and Internet Security	INFA 620	Network and Internet Security	
Managerial Electives				
COMM 600	Academic Writing for Graduate Students	COMM 600	Academic Writing for Graduate Students	
ECOM 610	Introduction to E-Commerce	EBUS 610	Introduction to E-Business	
ITSM 637	IT Acquisitions Management	IMAT 637	IT Acquisitions	
TMAN 610	Economics and Financial Analysis	TMAN 625	Economics and Financial Analysis for Technology Managers	
TMAN 614	Strategic Management of Technology and Innovation	TMAN 614	Strategic Management of Technology and Innovation	
TMAN 633	Managing People in Technology-Related Organizations	TMAN 633	Managing People in Technology Based Organizations	

