



University of Maryland University College Graduate School of Management & Technology

Master of Science in Information Technology

Information Assurance specialization

(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 _____

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 Information Assurance specialization (7 specialization courses needed).
- Additional courses may be needed to complete the fall 2007 curriculum. See catalog for additional program information.

| 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 |
| MSIT 610 | Foundations of Information Technology | ITEC 610 | IT Foundations | |
| MSIT 620 | Computer Concepts | ITEC 620 | IT Infrastructure | |
| MSIT 630 | Concepts in Software-Intensive Systems | SWEN 645 | Systems and Software Standards and Requirements | |
| MSIT 640 | Data Communications and Networks | TLMN 623 | Telecommunications Networks | |
| MSIT 650 | Systems Engineering | ITEC 630 | Analysis, Modeling, and Design | |

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|----------------------------------|--|------------|--|--|
| MSIT 660 | Internet Technologies | INFA 620 | Network and Internet Security | |
| Electives : Choose five | | | | |
| Computer Systems Group | | | | |
| 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 | |
| Database Group | | | | |
| 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 | Eliminated | | |
| CSMN 665 | Data Warehouse Technologies | DBST 665 | Data Warehouse Technologies | |
| CSMN 666 | Database Systems Administration | DBST 670 | Database Systems Administration | |
| CSMN 667 | Data Mining | DBST 667 | Data Mining | |
| CSMN 668 | Database Security | DBST 668 | Database Security | |
| Electronic Commerce Group | | | | |

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| ECOM 610 | Introduction to E-Commerce | EBUS 610 | Introduction to E-Business | |
| ECOM 620 | E-Marketing | EBUS 620 | E-Marketing | |
| ECOM 670 | Social ,Legal, and Regulatory Issues | EBUS 630 | Social, Legal, and Regulatory Issues | |
| Homeland Security Group | | | | |
| ITSM 620 | Concepts in Homeland Security | HSMN 610 | Concepts in Homeland Security | |
| ITSM 622 | Seminar in Homeland Security Management | HSMN 670 | Seminar in Homeland Security Management | |
| And three of the following: | | | | |
| CSMN 655 | Information Risk Assessment and Security Management | INFA 610 | Computer Security, Software Assistance, Hardware Assistance, and Security Management | |
| BIOT 681 | Bioterrorism and Biosecurity | BSBD 641 | Biosecurity and Bioterrorism | |
| ENER 603 | Energy Infrastructure | ENER 603 | Energy Infrastructure | |
| ITSM 624 | Physical Security | HSMN 620 | Physical Security | |
| ITSM 626 | Business Continuity: Disaster Recovery Planning and Response | HSMN 630 | Business Continuity: Disaster Recovery Planning and Response | |
| Information Assurance Group | | | | |
| CSMN 655 | Information Risk Assessment and Security Management | <i>INFA 610</i> | Computer Security, Software Assurance, Hardware Assurance, and Security Management | |

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|--|--|-----------------|--|--|
| CSMN 681 | Cryptology and Data Protection | <i>INFA 640</i> | Cryptology and Data Protection | |
| CSMN 683 | Intrusion Detection, Incident Response, and Computer Forensics | <i>INFA 630</i> | Intrusion Detection and Intrusion Prevention | |
| TLMN 672 | Network and Internet Security | <i>INFA 620</i> | Network and Internet Security | |
| CSMN 685 | Security Policy, Ethics, and the Legal Environment | <i>INFA 660</i> | Security Policy, Ethics, and the Legal Environment | |
| ITSM 620 | Concepts in Homeland Security | HSMN 610 | Concepts in Homeland Security | |
| Information Technology Management Group | | | | |
| 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 632 | Organizational Performance Management | TMAN 632 | Organizational Performance Management | |
| TMAN 633 | Managing People in Technology-Based Organizations | TMAN 633 | Managing People in Technology-Based Organizations | |
| Project Management Group | | | | |
| PMAN 634 | Program and Project Management | ITEC 640 | Information Technology Project Management | |
| PMAN 635 | Techniques of Scheduling and Resource Allocation | PMAN 670 | Advanced Project Methods | |

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| PMAN 636 | Legal Aspects of Contracting | PCMS 627 | Legal Aspects of Contracting | |
| PMAN 637 | Risk Management: Tools and Techniques | PMAN 637 | Risk Management: Tools and Techniques | |
| PMAN 638 | Communication, Negotiation, and Conflict Resolution | PMAN 638 | Communication, Negotiation, and Conflict Resolution | |
| Software Systems Group | | | | |
| MSWE 645 | Systems and Software Standards and Requirements | SWEN 645 | Systems 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 | |
| Special Topics Group | | | | |
| ITSM 637 | IT Acquisitions Management | IMAT 637 | IT Acquisitions | |
| CSMN 639 | Multimedia and the Internet | IMAT 639 | Internet Multimedia Applications | |
| COMM 600 | Academic Writing for Graduate Students | COMM 600 | Academic Writing for Graduate Students | |
| Telecommunications Group | | | | |
| TLMN 620 | Local Area Networking Systems | ITEC 620 | IT Infrastructure | |
| TLMN 625 | Wide Area Network Systems | TLMN 623 | Telecommunications Networks | |
| TLMN 630 | Satellite Communications Systems | TLMN 630 | Satellite Communications Systems | |
| TLMN 641 | Network Management and Design | TLMN 641 | Network Management | |

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|---|---|----------|------------------------------------|--|
| | | | and Design | |
| TLMN 645 | Wireless Telecommunications Systems | TLMN 641 | Network Management and Design | |
| TLMN 665 | Wireless Security | TLMN 670 | Telecommunications Capstone | |
| Capstone: You must complete 27 hours of graduate coursework before enrolling in the capstone course. | | | | |
| ITSM 670 | Information Technology Integration and Applications | IMAT 670 | Contemporary Topics in Informatics | |

NOTE: If following the **MS in Information Technology – Information Assurance specialization** fall 2007 curriculum, the following core and specialization courses are needed in addition to those highlighted above.

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| | | <i>INFA 650</i> | Computer Forensics | |
| | | <i>INFA 670</i> | Information Assurance Capstone | |