VirginiaTech
Invent the Future®

Online Master of Information Technology
Plan of Study Worksheet

Name: _____ Date Submitted: _____

ID# (Last 4 digits): _____ Date Reviewed: _____

Reviewed with: _____

Anticipated Term of Graduation: _____

Areas of Concentration (Please mark with a "X"):

- ○ Networking Protocols
- ○ Telecommunications
- ○ Security
- ○ Software Development
- ○ Big Data
- ○ Business Information Technology
- ○ Health Information Technology
- ○ Analytics and Business Intelligence
- ○ Decision Support

Sequence of Courses:
Completion of the VT-MIT degree consists of taking 11 courses* total (33 credit-hours). You must take a minimum of four foundation courses, however you can take all six. You will then choose from 16 elective courses, to complete 11 courses in total. The VT-MIT program offers concentration areas (modules), as shown above. Courses may be taken in any order if there is not a prerequisite. You will see there is great flexibility, and it is possible to complete up to three modules. Your plan of study should be discussed with the VT-MIT Program Office no later than your third semester in the program. New modules and courses may be added.

	Courses Taken/ To Be Taken	Semester	Year
Foundation Courses	**ACIS 5504** – Information Systems Design and Database Concepts (Fall, Spring)		
	BIT 5594 – Web-based Applications and E-Commerce (Fall, Spring)		
	CS 5044 – Object-Oriented Analysis & Design (Fall, Spring, Summer) Requires experience programming in a modern language such as C, C#, C++ or Java		
	CS 5704 – Software Engineering (Fall, Spring) Prerequisite: CS 5044		
	ECE 5484 – Computer System Architecture (Fall, Spring, Summer) Requires experience programming in a modern language such as C, C#, C++ or Java		
	MGT 5804 – Leadership in Technology-Based Organizations (Fall, Spring, Summer I)		
Electives	**ACIS 5524** – Advanced Data Management Systems I (Fall, Spring) Prerequisite: ACIS 5504		
	ACIS 5534 – Systems Development (Fall, Spring) Prerequisites: ACIS 5504		
	ACIS 5574 – Healthcare Data Management (Summer II)		
	BIT 5474 – Computer-Based Decision Support Systems (Fall)		
	BIT 5495 – Decision Support Systems; Design & Implementation (Last Offering Spring 2016)		
	BIT 5484 – Cognitive Computing with Smart Service Systems (Spring) Prerequisites: BIT 5474		
	BIT 5524 – Introduction to Business Intelligence & Business Analytics (Fall)		
	BIT 5534 – Applied Business Intelligence & Business Analytics (Spring) Prerequisites: BIT 5524		
	BIT 5564 – Healthcare Information Technology (Summer I)		

*If you enrolled in the program before Fall 2015, then your VT-MIT degree will consist of 10 courses. You are automatically "grandfathered" into the new degree set-up; you may choose whether or not to take an 11th course.

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Courses Taken/ To Be Taken	Semester	Year
Electives		
CS 5244 – Internet Software (Fall, Spring) Prerequisites: CS 5044 and CS 5704		
CS 5744 – Software Design & Quality (Fall, Spring) Prerequisites: CS 5044 and CS 5704		
CS 5644 - Machine Learning with Big Data (Fall) **Prerequisites: CS 5044**		
CS 5664 – Social Media Analytics (Spring) **Prerequisites: CS 5044**		
ECE 5485 – Network Architecture & Protocols I (Fall 2015, Fall 2017, Fall 2019) Prerequisite: ECE 5484		
ECE 5486 – Network Architecture & Protocols II (Spring 2016, Spring 2018, Spring 2020) Prerequisites: ECE 5484 and ECE 5485		
ECE 5585 – Information Technology Security & Trust I (Fall) Prerequisite: ECE 5484		
ECE 5586 – Information Technology Security & Trust II (Spring) Prerequisites: ECE 5484 and ECE 5585		
ECE 5665 – Telecommunications I (Last Offering Fall 2016) Prerequisite: ECE 5484		
ECE 5666 – Telecommunications II (Last Offering Spring 2017) Prerequisites: ECE 5484 and ECE 5565		

Area of concentration (modules) may be taken utilizing the majority of electives in the VT-MIT program curriculum. Courses to be taken for each concentration are listed below. Note that the modules and selected courses may change over time, with **Networking** being offered to students *every other year and* the 2016-2017 school year being the *last offering of the* **Telecommunications** module.

Networking Protocols**
- **ECE 5484** – Computer System Architecture
- **ECE 5565/5984** – Networking Architecture & Protocols I
- **ECE 5566** – Networking Architecture & Protocols II

Telecommunications**
- **ECE 5484** – Computer System Architecture
- **ECE 5665** – Telecommunications I
- **ECE 5666** – Telecommunications II

Security
- **ECE 5484** – Computer System Architecture
- **ECE 5585** – Security & Trust I
- **ECE 5586** – Security & Trust II

Software Development
- **CS 5044** – Object-Oriented Analysis & Design
- **CS 5704** – Software Engineering
- **CS 5244** – Internet Software
- **CS 5744** – Software Design & Quality

Big Data
- **CS 5044 –** Object Oriented Analysis & Design
- **CS 5644 –** Machine Learning with Big Data
- **CS 5665 –** Social Media Analytics

Business Information Technology
- **ACIS 5504** – Info Systems Design & Database Concepts
- **ACIS 5524** – Advanced Data Management Systems I
- **ACIS 5534** – Systems Development

Health Information Technology
- **ACIS 5504** – Info Systems Design & Database Concepts
- **BIT 5564** – Healthcare Information Technology
- **ACIS 5574** – Healthcare Data Management

Analytics and Business Intelligence
- **BIT 5594** – Web-based Applications & E-Commerce
- **BIT 5524** – Intro to Business Intel & Business Analytics
- **BIT 5534** – Applied Business Intel & Business Analytics

Decision Support
- **BIT 5594** – Web-based Applications & E-Commerce
- **BIT 5474** – Computer-Based Decision Support Systems
- **BIT 5495*** – Decision Support Design & Implementation

(or)
- **BIT 5484*** – Cognitive Computing with Smart Service Systems

** Networking is offered during the 2017-2018 and 2019-2020 academic years and the final offering of the Telecommunications module will be offered during the 2016-2017 academic year.