

Sample Schedule for BS in Applied Information Technology

(for students without an Associate Degree)

First Semester	Credits	Second Semester	Credits
ENGL 101 - Composition	3	Nonlab Natural Science	3
HIST 100 - History of Western Civilization	3	Literature	3
IT 101 - Introduction to Information Technology	3	COMM 100 - Public Speaking	3
IT 103 - Introduction to Computing	3	IT 106 - Introduction to IT Problem Solving Using Computer Programming	3
MATH 108 - Introductory Calculus with Business Applications	3	STAT 250 - Introductory Statistics I	3
Total Hours	15	Total Hours	15
Third Semester		Fourth Semester	
Natural Science with Lab	4	Arts	3
Social/Behavioral Science	3	MATH 112 - Discrete Mathematics for IT	3
IT 206 - Object Oriented Techniques for IT Problem Solving	3	IT 207 - Applied IT Programming	3
IT 212 - Computer Hardware Fundamentals	3	IT 214 - Database Fundamentals	3
IT 213 - Multimedia and Web Design	3	IT 223 - Information Security Fundamentals	3
Total Hours	16	IT 293 - Applied IT: Junior Transition	1
		Total Hours	16
Fifth Semester		Sixth Semester	
Elective	3	IT Concentration Course	3
ENGL 302 - Advanced Composition (Bus/Nat Sci/Tech)	3	IT 300 - Modern Telecommunications	3
IT 341 - Data Communications and Network Principles	3	IT 304 - IT in the Global Economy	3
MSOM 300 - Managing Financial Resources	3	IT 343 - IT Resources Planning	3
SYST 469 - Human Computer Interaction	3	MSOM 301 - Managing People and Organizations	3
Total Hours	15	Total Hours	15
Seventh Semester		Eighth Semester	
IT Concentration Course	3	IT Concentration Course	3
IT Concentration Course	3	IT Concentration Course	3
Global understanding	3	Elective	3
Elective	3	IT 493 - Senior Design Project II	4
IT 492 - Senior Design Project I	3	Total Hours	13
Total Hours	15		

We invite requests for additional information
 Advising questions: aitadv@gmu.edu
 Advising appointments: ait.gmu.edu/advising_office_hours
 BS in AIT questions: bsait@gmu.edu
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Department of Applied Information Technology
 Volgenau School of Engineering

Bachelor of Science in Applied Information Technology (2012-2013)

The world now depends on information technology – all facets of life are impacted by the use of IT by governments, corporations and organizations. Established disciplines including computer science, engineering and telecommunications continue to provide technological advances. It is the role of the Applied IT specialist to analyze needs and design solutions using these advances that are innovative and effective. Every solution has attendant risks, costs and limitations the AIT specialist must be equally skilled at understanding and justifying. The Volgenau School's BS in AIT program is designed to provide exactly this multifaceted education in *applied* information technology, to produce graduates able to lead, analyze, design, implement, and sustain IT-enabled processes.

Admission Requirements

Students who meet Mason's general eligibility requirements may apply for admission to the Applied Information Technology major. Preference in admission is given to students who have four years of high school mathematics, including pre-calculus.

Degree Requirements

The AIT program can be successfully completed in eight full-time semesters with an average of 15 credits each semester; an example schedule is shown on page 4. It is also possible for students to complete this degree on a part-time basis. The 120-credit degree consists of Mason general education requirements, AIT foundation and core courses, and courses required for the chosen AIT concentration area. Students must complete requirements for at least one of the currently offered concentrations: Information Security, Networking and Telecommunications, Web Development and Multimedia, Database Technology and Programming, and Healthcare IT. Upper division courses (300-level and higher) in this program are offered at the Prince William campus.

At least 45 credits of the degree must be at the 300 level or higher, and at least 30 credits must be earned at George Mason University. Students must earn a grade of C or better in any course that satisfies a prerequisite requirement for a course in the major. No student can take a course more than three times and remain in the major. To graduate with the BS degree in AIT, students must have a GPA of 2.50 or better across the major's foundation, core, concentration and capstone courses.

IT Foundation, Core, Capstone, and Concentration Requirements

In addition to Mason general education requirements (includes humanities, social sciences, mathematics and basic science) the BS in AIT also requires foundation, core, concentration and a small set of other required courses. It also requires a seven-credit Applied Senior Capstone project to be completed over a period of two consecutive semesters. A more complete description of these requirements appear on page 2.

This document provides general information about the BS in AIT program for information purposes only. The definitive statement of policy and requirements is the University catalog (<http://catalog.gmu.edu>). In the event of any differences between this sheet and the catalog, the latter prevails.

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