

GEORGE MASON UNIVERSITY
VOLGENAU SCHOOL OF ENGINEERING
B.S. DEGREE IN APPLIED INFORMATION TECHNOLOGY
(5400 Nguyen Engineering Building, 703-993-8461)
<http://ait.gmu.edu>
2014-2015 CATALOG

	<u>Department(s) & Course #(s)</u>	<u>Completed/ Grade(s)</u>	<u>Needed</u>
GENERAL EDUCATION REQUIREMENTS (21)			
a. Written Communication: ENGH 101 (100), ENGH 302 (C or better) (3,3)		___ ___	___ ___
b. Oral Communication (satisfied by completion of major requirements)			
c. Quantitative Reasoning (satisfied by completion of major requirements)			
d. Literature (3)			
e. Arts (3)			
f. Western Civilization (3)			
g. Social & Behavioral Science (3)			
h. Natural Science (satisfied by completion of major requirements)			
i. Global Understanding (3)			
j. Information Technology (satisfied by completion of major requirements)			
k. Synthesis (satisfied by completion of major requirements)			

Go to: <http://provost.gmu.edu/gened/general-education-requirements/> to link to information on general education requirements.

MAJOR REQUIREMENTS (90-91 hours required)

a. Foundation Courses (18)			
1. IT 101, IT 103 (3, 3)		1. ___ ___	___ ___
2. IT 106, (3)		2. ___ ___	___ ___
3. IT 206, IT 212 (3, 3)		3. ___ ___	___ ___
4. STAT 250 (3)		4. ___ ___	___ ___
b. Core Courses (33-34)			
1. IT 207, IT 213 (3, 3)		1. ___ ___	___ ___
2. IT 214, IT 223, IT 300 (3, 3, 3)		2. ___ ___	___ ___
3. IT 304 or CS 105 and CS 306 (circle choice) (3 or 1,3)		3. ___ ___	___ ___
4. IT 341, IT 343 (writing intensive course) (3, 3)		4. ___ ___	___ ___
5. MSOM 300, MSOM 301 (3, 3)		5. ___ ___	___ ___
6. SYST 469 (3)		6. ___ ___	___ ___

Students must have a C or better in any course that satisfies a prerequisite for an AIT course. To graduate with the BS in Applied Information Technology, students must have a GPA of 2.50 or better across the IT foundation, core, capstone, and concentration courses. Additionally, students must have a C or better in their five concentration courses as well as their capstone courses.

c. Capstone Design Courses (7)			
1. IT 492, IT 493 (3, 4)		1. ___ ___	___ ___
d. An Information Technology Concentration (15) (choose one of five concentrations from the list below. To fulfill the requirements for a concentration, students need 15 credits made up of four courses from their chosen concentration and a fifth course chosen from any of the five concentrations.)			
1. Data Base Technology & Programming: IT 306 (3), 308 (3), 314 (3), 315 (3), 322 (3), 344 (3), 390 (3), 410 (3) 414 (3), 490 (3)			
2. Healthcare IT: IT 322 (3), 324 (3), 328 (3); HAP301 (3)			
3. Information Security: IT 353 (3), 357 (3), 366 (3), 462 (3), 466 (3), 467 (3)			
4. Network and Telecommunications: ECE 301 (3); IT 342 (3), 344 (3), 366 (3), 441 (3), 445 (3), 455 (3), 484 (3), 488 (3)			
5. Web Development and Multimedia: IT 315 (3), 331 (3), 332 (3), 335 (3), 390 (3), 413 (3), 415 (3), 431 (3), 435 (3)			
e. Other Requirements (17)			
1. COMM 100, IT 293 (3, 1)		1. ___ ___	___ ___
2. MATH 108, MATH 112 (3, 3)		2. ___ ___	___ ___
3. Natural Science (4, 3) (list courses) _____, _____		3. ___ ___	___ ___

A GPA of 2.5 or better is required IT foundation, core, capstone, and concentration courses.

ELECTIVES (8-9 hours required) (List Courses)

MINIMUM HOURS TO GRADUATE: 120

UPPER DIVISION HOURS (minimum 45):

This planning form is intended to be used in consultation with your academic advisor and reflects the requirements for the 2014-2015 Catalog; the University Catalog is the official reference for program requirements.

COURSE LISTS (INFORMATION TECHNOLOGY)

Mason Core Requirements

Written Communication: ENGH 101 (or 100) and ENGH 302

Oral Communication: COMM 100

Quantitative Reasoning: MATH 108, MATH 112, STAT 250. (The Math Placement Test is required to take a MATH course. See this web site for more information: http://math.gmu.edu/placement_test.htm)

Literature: ARAB 325; CHIN 310, 311, 325, 328; CLAS 250, 260, 340, 350, 360, 380; ENGH 201, 202, 203, 204; FREN 325, 329; FRLN 330; GERM 325; ITAL 320, 325; JAPA 340; PHIL 253; RELI 235; RUSS 325, 326, 327; SPAN 325

Arts: ARTH 101, 102, 103, 200, 201, 203, 204, 321, 322, 324, 333, 334, 335, 340, 341, 342, 344, 345, 360, 362, 370, 372, 373, 376; AVT 103, 104, 215, 222, 232, 243, 252, 253, 262, 272; DANC 101, 119, 125, 131, 145, 161, 225, 231, 245, 301, 354, 445, 390, 391; ENGH 370, 372, 396; FAVS 225; GAME 101; MUSI 100, 101, 102, 107, 280, 301, 302, 380, 381, 382, 383, 384, 385, 387, 389, 485; PHIL 156; THR 101, 150, 151, 210, 230, 395, 411, 412.

Western Civilization: HIST 100 or 125; transfer students may substitute: the following courses for HIST 100: HIST 101, 102, 301, 302, 304, 305, 306, 308, 309, 312, 314, 322, 388, 435, 436, 480; and the following courses for HIST 125: HIST 202, 387.

Social and Behavioral Sciences: AFAM 200; ANTH 114, 120, 135, 396; CONF 101; CONS 410; CRIM 100; ECON 100, 103, 104, 105, 110, 111 (110 and 111 must be taken together); EDUC 372; GGS 103; GOVT 101, 103, 367; HEAL 230; HIST 121, 122; LING 306; PSYC 100, 211, 231; SOCI 101, 352, 355; SOM 100; TOUR 311; WMST 200

Natural Sciences: ASTR 111/112, 113/114, 115; BIOL 103, 104; BIOL 213; CDS 101/102; CHEM 103,104,155,156; CHEM 211, 212, 251; CLIM 102, 111/112; EVPP 110,111; GEOL 101,102; GGS 121; PHYS 103,104; PHYS 111/112; PHYS 243/244, 245/246; PHYS 160/161, 260/261; 262/263

Non-lab: ASTR 103, 302; CHEM 101, 102, 201, 202; CLIM 101; EVPP 201; GEOL 134; GGS 102; NUTR 295; PHYS 106; UNIV 301

Global Understanding: ANTH 302, 304, 306, 307, 308, 309, 311, 312, 313, 316, 331, 332, 385; ARTH 319, 320, 380, 382, 383, 384, 385, 386; CEIE 100; COMM 305, 456; CRIM 405; DANC 118, 318, 418; ECON 360, 361, 362, 380, 390; ENGH 362, 366; GCH 205; GGS 101; GLOA 101; GOVT 132, 133; HIST 130, 251, 252, 261, 262, 271, 272, 281, 282, 328, 329, 356, 358, 360, 364, 365, 387, 460, 462; JAPA 310; MSOM 305; MUSI 103, 431; PHIL 243; PSYC 379; RELI 100, 211, 212, 313, 315, 341, 374; RUSS 354; SOCI 120, 320, 332; SPAN 322; SYST 202; THR 359, TOUR 210; WMST 100

Information Technology: IT 103

Synthesis: IT 492