

**GEORGE MASON UNIVERSITY
VOLGENAU SCHOOL OF ENGINEERING
B.S. DEGREE IN APPLIED INFORMATION TECHNOLOGY
(5400 The Engineering Building, 703-993-4531)**

<http://ait.gmu.edu>

2012-2013 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://chss.gmu.edu/general-education/all-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 (3, 3)		2. _____	_____
3. IT 300 and IT 304 or CS 105 and CS 306 (circle choice) (3 and 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. _____	_____

A grade of C or higher is required in each of the Foundation and Core courses. Students will not be permitted to make more than three attempts to achieve a C or higher in these courses. Those who do not successfully complete these core courses within three attempts will be terminated from the INFT major and will not be eligible to receive a BS in IT degree.

c. Capstone Design Courses (7)			
1. IT 492, IT 493 (3, 4)		1. _____	_____
d. An Information Technology Concentration (15) (choose one of four 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 four concentrations.)			
1. Data Base Technology and Programming: IT 306 (3), 308 (3), 314 (3), 344 (3), 414 (3)			
2. Healthcare IT: IT 322 (3); HAP301 (3), 360 (3), 461 (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), 348 (3), 366 (3), 441 (3), 445 (3), 455 (3), 471 (3), 481 (3), 484 (3), 488 (3)			
5. Web Development and Multimedia: IT 315 (3), 331 (3), 332 (3), 335 (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 2012-2013 Catalog; the University Catalog is the official reference for program requirements.

COURSE LISTS (INFORMATION TECHNOLOGY)

University General Education 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://cos.gmu.edu/academics/undergraduate/math_placement_testing)

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 325; 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, 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, 390, 391; ENGH 370, 372, 396; FAVS 225; GAME 101; MUSI 100, 101, 102, 107, 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 or 125: HIST 101, 102, 202, 301, 302, 304, 305, 306, 308, 309, 314, 322, 387, 388, 435, 436, 480.

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; SOM 100; TOUR 311; WMST 200

Natural Sciences: ASTR 111/112, 113/114; BIOL 103, 104; BIOL 213; CHEM 103,104,155,156; CHEM 211, 212, 251; CLIM 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; CDS 101; CHEM 101, 102, 201, 202; CLIM 101; EVPP 201; GEOL 134; GGS 102; 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 100; THR 359, TOUR 210; WMST 100

Information Technology: IT 103

Synthesis: IT 492

