

GEORGE MASON UNIVERSITY
VOLGENAU SCHOOL OF ENGINEERING
B.S. DEGREE IN INFORMATION TECHNOLOGY
(5400 Nguyen Engineering Building, 703-993-3565)

<http://ait.gmu.edu>

2016-2017 CATALOG

	<u>Department(s) & Course #(s)</u>	<u>Completed/ Grade(s)</u>	<u>Needed</u>
<u>MASON CORE REQUIREMENTS (21)</u>			
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://masoncore.gmu.edu/> to link to information on Mason Core requirements.

MAJOR REQUIREMENTS (90-91 hours required)

a. Foundation Courses (21)			
1. IT 104, IT 105 (3, 3)		1. _____	_____
2. IT 102 or MATH 125 (circle choice) (3)		2. _____	_____
3. IT 106, (3)		3. _____	_____
4. IT 206, IT 216 (3, 3)		4. _____	_____
5. STAT 250 (3)		_____	_____
b. Core Courses (33)			
1. IT 207, IT 213 (3, 3)		1. _____	_____
2. IT 214, IT 223, IT 300 (3, 3, 3)		2. _____	_____
3. IT 304 (3)		3. _____	_____
4. IT 341, IT 342, IT 343 (writing intensive course) (3, 3, 3)		4. _____	_____
5. MBUS 300 (3)		5. _____	_____
6. SYST 469 (3)		6. _____	_____
c. Capstone Design Courses (7)			
1. IT 492, IT 493 (3, 4)		1. _____	_____
d. Information Technology Concentrations (15) (choose one of six 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 six concentrations.)			
1. Data Base Technology & Programming: IT 306 (3), IT 308 (3), IT 314 (3), IT 315 (3), IT 322 (3), IT 344 (3), IT 369 (3), IT 390 (3), IT 410 (3) IT 414 (3), IT 490 (3)		_____	_____
2. Healthcare IT: IT 322 (3), IT 324 (3), IT 390 (3), HAP 360 (3), STAT 362		_____	_____
3. Information Security: IT 353 (3), 357 (3), 366 (3), 429 (3), 462 (3), 466 (3), 467 (3)		_____	_____
4. Information Technology Entrepreneurship: IT 315 (3), IT 390 (3), IT 490 (3), IT 495 (3), IT 496 (3); MBUS 304 (3)		_____	_____
5. Network and Telecommunications: ECE 301 (3); IT 366 (3), IT 441 (3), IT 445 (3), IT 455 (3), IT 465 (3), IT484 (3), IT 488 (3)		_____	_____
6. Web Development and Multimedia: IT 315 (3), IT 331 (3), IT 332 (3), IT 335 (3), IT 390 (3), IT 415 (3), IT 431 (3), IT 436 (3)		_____	_____
e. Other Requirements (17)			
1. COMM 100 or 101 (circle choice), IT 293 (3, 1)		1. _____	_____
2. MATH 108 or MATH 113 (circle choice) (3 or 4)		2. _____	_____
3. Natural Science (4, 3) (list courses) _____, _____		3. _____	_____

Students must have a C or better in any course that satisfies a prerequisite for an IT course. To graduate with the BS in Applied Information Technology, students must have a GPA of 2.75 or better across the IT foundation, core, capstone, and concentration courses. Additionally, students must have a C or better in their five 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 2016-2017 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 or COMM 101

Quantitative Reasoning: MATH 108, MATH 113, STAT 250. (The Math Placement Test is required to take MATH 108 and MATH 113. See this web site for more information: http://math.gmu.edu/placement_test.php)

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; KORE 311; 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, 385; DANC 101, 119, 125, 131, 145, 161, 225, 231, 245, 301, 325, 331, 345, 425, 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, 436, 480; and the following courses for HIST 125: HIST 202, 387.

Social and Behavioral Sciences: AFAM 200; ANTH 114, 120, 135, 363, 372, 396; BUS 100; CONF 101; CONS 410; CRIM 100; ECON 100, 103, 104, 105, 367; EDUC 203, 372; GGS 103; GOVT 101, 103, 367; HEAL 230; HIST 121, 122; LING 306; PSYC 100, 211, 231; SOCI 101, 352, 355; 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 211/213, 212/214, 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: ANTH 135; ASTR 103, 302; BIOL 140; CHEM 101, 102, 201, 202; CLIM 101; EVPP 201; GEOL 134; GGS 102; NUTR 295; PHYS 106; PROV 301

Global Understanding: ANTH 302, 306, 307, 308, 309, 311, 312, 313, 316, 331, 332; ARTH 319, 320, 380, 382, 383, 384, 385, 386; BUS 200; CEIE 100; COMM 305, 456; CRIM 405; DANC 118, 318, 418; ECON 360, 361, 362, 380, 390; ENGH 362, 366; FAVS 300; FRLN 331; GCH 205; GGS 101; GLOA 101; GOVT 132, 133; HIST 251, 252, 261, 262, 271, 272, 281, 282, 328, 329, 356, 357, 358, 360, 364, 365, 387, 460, 462; JAPA 310; MBUS 305; MUSI 103, 431; PHIL 243; PSYC 379; RELI 100, 211, 212, 313, 315, 320, 322, 341, 374; RUSS 354; SOCI 120, 320, 332; SPAN 322, 466; SYST 202; THR 359, TOUR 210; WMST 100

Information Technology: IT 104

Synthesis: IT 492