

GEORGE MASON UNIVERSITY
THE VOLGENAU SCHOOL OF ENGINEERING
B.S. DEGREE IN STATISTICS (1705 Nguyen Engineering Building, 703-993-3645)
<http://statistics.gmu.edu/>
2017-2018 CATALOG

	<u>Department(s) & Course #(s)</u>	<u>Completed/ Grade(s)</u>	<u>Needed</u>
MASON CORE REQUIREMENTS (31 credits)			
a. Written Communication: ENGH 101 (100), ENGH 302 Natural Science Section only (C or better) (3,3)			
b. Oral Communication (3)		_____	_____
c. Quantitative Reasoning (satisfied by completion of major requirements)		_____	_____
d. Literature (3)	_____	_____	_____
e. Arts (3)	_____	_____	_____
f. Western Civilization (HIST 100, 125, or acceptable transfer course)(3)	_____	_____	_____
g. Social & Behavioral Science (3)	_____	_____	_____
h. Natural Science (4,3)	_____	_____	_____
i. Global Understanding (3)	_____	_____	_____
j. Information Technology (satisfied by completion of major requirements)		_____	_____
k. Synthesis (satisfied by STAT 490)		_____	_____

Go to: <http://catalog.gmu.edu/mason-core/> to link to information on Mason Core requirements.

MAJOR REQUIREMENTS (73 – 82 credits)

Statistics Core (24 credits)

a. STAT 260 (3)		a. _____	_____
b. STAT 334 or STAT346 (3)		b. _____	_____
c. STAT 354 (3)		c. _____	_____
d. STAT 362 (3)		d. _____	_____
e. STAT 456 (3)		e. _____	_____
f. STAT 463 (3)		f. _____	_____
g. STAT 489 (3)		g. _____	_____
h. STAT 490 (3)		h. _____	_____

Mathematics Core (11)

1. MATH 113, 114 (4,4)		1. _____	_____
2. MATH 203 (3)		2. _____	_____

Computational Skills Core (5 credits)

1. *CS 105 or CDS 151 (1) (*Statistical Analytics concentration must take CS 105)		1. _____	_____
2. CS 112 (4)		2. _____	_____

Restricted Electives (18 credits)

1. Statistics electives – STAT courses numbered 440-499 *not used to fulfill other degree requirements (9 credits)
2. Technical electives – MATH, CDS, and/or CS courses numbered above 200; OR courses numbered above 300; BENG 322; CYSE 325; ENGH 388; IT 214; SYST 473; SYST 488

		j. _____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Students must earn a C or better in Major Core Requirement courses as well as in courses required to satisfy prerequisites.

Concentrations (select one and complete requirements) (15 – 24 credits)

Applied Statistics (ASTA) (15-21 credits): Students must complete 15 - 21 credits in a pre-approved minor, selected in consultation with the undergraduate coordinator.

Mathematical Statistics (MTHS) (15 credits): STAT 356; CDS 130; MATH 213; MATH 290; MATH 315

Statistical Analytics (STLA) (24 credits): STAT 472; CS 211; CS 310; CS 330; CS 450 or CDS 302; CS 484 or CDS 303; MATH 125; OR 481

GENERAL ELECTIVES (7 - 16) (List courses) At most 3 credits of 100-level RECR coursework may be taken to satisfy the degree requirements of those VSE programs that allow general electives.

		_____	_____
_____	_____	_____	_____

MINIMUM 120 HOURS (including Minimum 45 UPPER DIVISION HOURS) to GRADUATE

This planning form is intended to be used in consultation with your academic advisor and reflects the requirements for the 2017-2018 Catalog; the University Catalog is the official reference for program requirements.

COURSE LISTS (STATISTICS)

Mason Core Requirements

Written Communication: ENGH 101 (or 100) and ENGH 302 (Natural Science Section)

Oral Communication: COMM 100 or COMM 101

Quantitative Reasoning: MATH 113. The Math Placement Test is required to take 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, 333; 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, 371, 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; GCH 325; 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, 106/107, 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, 312, 313, 316, 331, 332, 382; ARTH 319, 320, 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; PROV 105; 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: CS 112 and CS 105

Synthesis: STAT 490