

**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) &amp; Course #(s)</u>	<u>Completed/ Grade(s)</u>	<u>Needed</u>
<b>MASON CORE REQUIREMENTS (31 credits)</b>			
<b>a. Written Communication: ENGH 101 (100), ENGH 302 Natural Science Section only (C or better) (3,3)</b>			
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 <b>STAT 490</b> )		_____	_____

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 Analysis (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](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, 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, 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**