

**GEORGE MASON UNIVERSITY
VOLGENAU SCHOOL OF ENGINEERING
B.S. DEGREE IN MECHANICAL ENGINEERING
(3243 Nguyen Engineering Building, 703-993-1712)
<http://volgenau.gmu.edu/web/volgenau/bachelor-degrees>
2014-2015 CATALOG**

<u>MASON CORE REQUIREMENTS (24)</u>	<u>Department(s) & Course #(s)</u>	<u>Completed/ Grade(s)</u>	<u>Needed</u>
a. Written Communication: ENGH 101 (100), ENGH 302 (C or better) (3,3)		_____	_____
b. Oral Communication: COMM 100 (3)		_____	_____
c. Quantitative Reasoning (satisfied by completion of mathematics and basic sciences requirements)		_____	_____
d. Literature (3)	_____	_____	_____
e. Arts (3)	_____	_____	_____
f. Western Civilization (HIST 100, 125, or acceptable transfer course)(3)	_____	_____	_____
g. ECON 103 (3)	_____	_____	_____
h. Natural Science (satisfied by completion of mathematics and basic sciences 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 Mason Core requirements.

MATHEMATICS, BASIC SCIENCES, and COMPUTER SCIENCE (36 hours required)

a. MATH 113, 114 (4,4)	a. _____	_____
b. MATH 213, 214 (3,3)	b. _____	_____
c. CHEM 251 (4)	c. _____	_____
d. PHYS 160, 161 (3,1)	d. _____	_____
e. PHYS 260, 261 (3,1)	e. _____	_____
f. STAT 344 (3)	f. _____	_____
g. ME 351 (3)	g. _____	_____
h. CS 112 (4)	g. _____	_____

ENGINEERING CREDITS (64 hours required)

a. ENGR 107 (2)	a. _____	_____
b. ECE 285, ECE 286 (3,3)	b. _____	_____
c. ME 211, ME 212 (3,4)	c. _____	_____
d. ME 221, ME 231 (3,3)	d. _____	_____
e. ME 313, ME 322 (4,4)	e. _____	_____
f. ME 323, ME 352 (4,3)	f. _____	_____
g. ME 430, ME 431 (1,3)	g. _____	_____
h. ME 432 (4)	h. _____	_____
i. ME 441 or ME 442 (3)	i. _____	_____
j. ME 443, ME 444 (3,3)	j. _____	_____
k. ME 453 (2) (writing intensive course)	k. _____	_____
l. ME technical electives (from the department' list of pre-approved courses) (9)		
1. _____	1. _____	_____
2. _____	2. _____	_____
3. _____	3. _____	_____

A grade of C or better is required in all MATH, science, and Volgenau School of Engineering courses.

MINIMUM HOURS TO GRADUATE: 124

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 (MECHANICAL ENGINEERING)

Mason Core Requirements

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

Oral Communication: COMM 100

Quantitative Reasoning: MATH 113. 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: ECON 103

Natural Sciences: PHYS 160/161 & 260/261

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: CS112; ENGR 107

Synthesis: ME 443, ME 444

