

**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>  
2015-2016 CATALOG**

<b><u>MASON CORE REQUIREMENTS (24)</u></b>	<u>Department(s) &amp; 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://masoncore.gmu.edu/> 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. ME 351 (3)	f. ___	___
g. CS 112 (4)	g. ___	___
h. Mathematics/Science Elective (3) (from department's pre-approved list; list course)	h. ___	___

**ENGINEERING CREDITS (61 hours required)**

a. ECE 285, ECE 286 (3,3)	a. ___ ___	___ ___
b. ME 151, ME 211 (2,3)	b. ___ ___	___ ___
c. ME 212, ME 221 (3,3)	c. ___ ___	___ ___
d. ME 231, ME 311 (3,1)	d. ___ ___	___ ___
e. ME 313, ME 321 (3,1)	e. ___ ___	___ ___
f. ME 323, ME 341 (3,3)	f. ___ ___	___ ___
g. ME 352, ME 431 (3,3)	g. ___ ___	___ ___
h. ME 432, ME 443 (4,3)	h. ___ ___	___ ___
i. ME 444, ME 453 (writing intensive course) (3,2)	i. ___ ___	___ ___
j. ME 453 (2) (writing intensive course)	j. ___	___
k. ME technical electives (from the department' list of pre-approved courses) (9)		
1. _____ 2. _____	1. ___ ___	___ ___
3. _____	3. ___	___

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

**MINIMUM HOURS TO GRADUATE: 121**

**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 2015-2016 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 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; 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, 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, 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, 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; 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

Synthesis: ME 443, ME 444