

GEORGE MASON UNIVERSITY
VOLGENAU SCHOOL OF ENGINEERING
B.S. DEGREE IN BIOENGINEERING (BIOENGINEERING PREHEALTH CONCENTRATION)
(3800 Nguyen Engineering Building, 703-993-4190)
<http://bioengineering.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: COMM 100 or 101 (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)	___	___
g.	Social & Behavioral Science: (satisfied by completion of major requirements)	___	___
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.

BIOENGINEERING, MATHEMATICS, COMPUTER SCIENCES, AND BASIC SCIENCES (70)

a.	BENG 101, BENG 220 (3,3)	a. ___ ___	___ ___
b.	BENG 301, BENG 302 (3,1)	b. ___ ___	___ ___
c.	BENG 304, BENG 320 (3,3)	c. ___ ___	___ ___
d.	BENG 380, BENG 381 (3,1)	d. ___ ___	___ ___
e.	BENG 420 (3)	e. ___ ___	___ ___
f.	BENG 491, BENG 492 (1,2)	f. ___ ___	___ ___
g.	BENG 493, BENG 495 (2,1)	g. ___ ___	___ ___
h.	BIOL 213 & BENG 313 (4,3)	h. ___ ___	___ ___
i.	CS 112, ENGR 107 (4,2)	i. ___ ___	___ ___
j.	MATH 113, MATH 114 (4,4)	j. ___ ___	___ ___
k.	MATH 213, MATH 214 (3,3)	k. ___ ___	___ ___
l.	MATH 203 (3)	l. ___ ___	___ ___
m.	PHYS 160, PHYS 161 (3,1)	m. ___ ___	___ ___
n.	PHYS 260, PHYS 261 (3,1)	n. ___ ___	___ ___
o.	STAT 344 (3)	o. ___ ___	___ ___

Bioengineering Prehealth Concentration (43-44)

a.	BIOL 483 (4) and one of the following: BIOL BIOL 305/306 (3/1), BIOL 311 (4), BIOL 322/323 (3/1), BIOL 326 (3), BIOL 382 (3), BIOL 430 (4) (circle choice)	a. ___ ___	___ ___
b.	CHEM 211/213, CHEM 212/214 (3/1,3/1)	b. ___ ___	___ ___
c.	CHEM 313/315, CHEM 314/318 (3/2, 3/2)	c. ___ ___	___ ___
d.	CS 211 or CS 222 (circle choice) (3)	d. ___ ___	___ ___
e.	ECE 301 (3)	e. ___ ___	___ ___
f.	PSYC 100, SOCI 101 (3,3)	f. ___ ___	___ ___
g.	Six credits of Technical Electives chosen from the following (circle choices): BENG 341, 390, 392, 395, 406, 441, 451, 499, 525, 538; ECE 305, 410, 421, 450; ME 313	___	___

Students must complete each BENG, BIOL, ECE and ENGR course presented as part of the required credits for the degree with a grade of C or better.

MINIMUM HOURS TO GRADUATE: 134-135

UPPER DIVISION HOURS (minimum 45): Satisfied by required courses.

TRANSFER COURSES WITH "L" IN "EQUIVALENCIES" DO NOT CONTRIBUTE TO THE REQUIRED 45 HOURS.

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 (Bioengineering, Prehealth)

Mason Core Requirements

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

Oral Communication: COMM 100 or 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; 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: PSYC 100, SOCI 101

Natural Sciences: PHYS 160/161 & 260/261; BIOL 213; CHEM 211/213, CHEM 212/214

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: CS 112 and ENGR 107

Synthesis: BENG 492 and 493