

**GEORGE MASON UNIVERSITY**  
**The Volgenau School of Engineering**  
**B.S. DEGREE IN APPLIED COMPUTER SCIENCE**  
*Bioinformatics Concentration*  
**(4300 Nguyen Engineering, 703-993-1530)**  
<http://cs.gmu.edu/programs/undergraduate/>  
**2012-2013 CATALOG**

<b>GENERAL EDUCATION REQUIREMENTS (24)</b>	<u>Department(s) &amp; Course #(s)</u>	<u>Completed/ Grade(s)</u>	<u>Needed</u>
a. Composition: English 101 (100), 302 (C or better) (3,3)		_____	_____
b. Communication 100 (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 (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://catalog.gmu.edu> to link to information on Gen. Ed. requirements.

**MAJOR REQUIREMENTS (91 hours required)**

a. CS 101, 105 (2,1)	a.	_____	_____
b. CS 112, 211 (4,3)	b.	_____	_____
c. CS 262, 310 (1,3)	c.	_____	_____
d. CS 330, 367 (3,3)	d.	_____	_____
e. CS 321, 465 (3,3)	e.	_____	_____
f. CS 483, ECE 301 (3,3)	f.	_____	_____
g. One CS course numbered above 400 (3) CS _____	g.	_____	_____
h. Fourteen hours of Mathematics course work (14)			
1. MATH 113, 114 (4,4)	1.	_____	_____
2. MATH 203, 125 (3,3)	2.	_____	_____

**BIOINFORMATICS CONCENTRATION**

a. PHYS 160/161 (3,1)	a.	_____	_____
b. CHEM 201, BIOL 213 (3,4)	b.	_____	_____
c. CS 306, STAT 344 (3,3)	c.	_____	_____
d. BINF 450 (4)	d.	_____	_____
e. BIOL 482, 580 (3,3)	e.	_____	_____
f. CS 450 (3)	f.	_____	_____
g. One of the following: BINF 401, CS 444 (3) List course _____	g.	_____	_____
h. One of the following: BINF 402, CS 445 (3) List course _____	h.	_____	_____
i. Two approved electives related to bioinformatics (6) (List courses) _____	i.	_____	_____

**GENERAL ELECTIVES** (List courses)

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**MINIMUM HOURS TO GRADUATE: 120**

**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 2012-2013 Catalog; the University Catalog is the official reference for program requirements.