

# Joint Advanced Major Program (Science A: Mathematics; Science B: Biology)

The program outlined below may be varied with the approval of the chairs.

Science A Mathematics	42 credits:					
	MATH 111(3) <input type="checkbox"/>	MATH 112(3) <input type="checkbox"/>	MATH 253(3) <input type="checkbox"/>	MATH 254(3) <input type="checkbox"/>	MATH 267(3) <input type="checkbox"/>	MATH 277(3) <input type="checkbox"/>
	MATH 491(0) <input type="checkbox"/>	STAT 231(3) <input type="checkbox"/>	CSCI 161(3) <input type="checkbox"/>	_____ (3) <input type="checkbox"/>	_____ (3) <input type="checkbox"/>	_____ (3) <input type="checkbox"/>
	_____ (3) <input type="checkbox"/>	_____ (3) <input type="checkbox"/>	_____ (3) <input type="checkbox"/>			
Additional courses must be 9 credits of MATH or STAT at the 300 or 400 level, plus an additional 9 credits at any level which may be chosen from MATH, STAT or CSCI. MATH 493 is optional.						
Science B Biology	36 credits:					
	BIOL 111(3) <input type="checkbox"/>	BIOL 112(3) <input type="checkbox"/>	BIOL 201(3) <input type="checkbox"/> or BIOL 202(3) <input type="checkbox"/>	BIOL 203(3) <input type="checkbox"/>	BIOL 204(3) <input type="checkbox"/>	_____ (3) <input type="checkbox"/>
	_____ (3) <input type="checkbox"/>	_____ (3) <input type="checkbox"/>	_____ (3) <input type="checkbox"/>	_____ (3) <input type="checkbox"/>	_____ (3) <input type="checkbox"/>	_____ (3) <input type="checkbox"/>
Additional courses must be 18 credits of BIOL at the 300 or 400 level with a minimum 3 credits at the 400 level, plus an additional 3 credits from BIOL. It is recommended that the 18 credits be from the following courses: BIOL 301, 302, 304, 315, 317, 331, 384, 401, 402, 452.						
Science C	6 credits:					
	CHEM 100(6) <input type="checkbox"/> or CHEM 120(6) <input type="checkbox"/>					
Arts X	12 credits in a single Humanities or Social Science discipline:					
	_____ (3) <input type="checkbox"/>	_____ (3) <input type="checkbox"/>	_____ (3) <input type="checkbox"/>	_____ (3) <input type="checkbox"/>		
Arts Y	6 credits in a single Humanities or Social Science discipline:					
	_____ (3) <input type="checkbox"/>	_____ (3) <input type="checkbox"/>				
Approved Electives	12 credits as approved by the Department of Mathematics, Statistics and Computer Science:					
	CHEM 225(3) <input type="checkbox"/> or CHEM 220(6) <input type="checkbox"/>	CHEM 255(3) <input type="checkbox"/>	_____ (3) <input type="checkbox"/>	_____ (3) <input type="checkbox"/>	CSCI 162(3) is recommended.	
Open Electives	6 credits Open Electives:					
	_____ (3) <input type="checkbox"/>	_____ (3) <input type="checkbox"/>	PHYS 100(6) or PHYS 120(6) is recommended but may not count as Science A.			
Notes	<i>Grade Requirements:</i>					
	<ul style="list-style-type: none"> <li>• Overall average of 65% or better in each of the first two years.</li> <li>• Grades of 65 or better in each Advanced Major (Science A and B) course in each of the first two years.</li> <li>• Overall average of 70% or better in each of the final two years.</li> <li>• Average of 70% or better in each Advanced Major subject (Science A and B) in each of the final two years.</li> </ul>					