

Spring Hill College Mathematics: Computer Analysis Checklist

Consult advisor regarding course selection and proper sequencing

Lower Division Core Requirements		
	MTH121 Calculus I	4
	MTH122 Calculus II	4
	CIS221 Intro to Object-Oriented Programming	3

Requirements outside the Major		
	CIS322 Advanced Object-Oriented Programming	3
Choose two (2) lower division laboratory sciences		
		4
		4
Program Electives ⁴		
Choose two (2) upper-division courses in CIS		
		6

Upper Division Core Requirements		
	MTH301 Introduction to Abstract Mathematics	3
	MTH311 Numerical Methods	3
	MTH321 Linear Algebra	3
	MTH323 Calculus III	4
	MTH361 Differential Equations	3
	MTH 3xx-4xx Mathematics Elective	3
	MTH491 Seminar	1
Choose two (2) of the following:		
	MTH451 Basic Real Analysis	6
	MTH464 Complex Variables	
	MTH482 Algebraic Theory	

⁴To be chosen from upper-division courses in CIS.

Additional requirements

- A grade of C- or better must be earned in all major requirements
- Bachelor of Science CORE Curriculum
- All candidates for graduation must:
 - Pass a comprehensive undergraduate mathematics examination
 - Successfully complete a senior seminar (MTH491) in which a comprehensive expository paper on some selected mathematical topic is required
 - Students may prove oral competency by satisfying the speech component in MTH491