

Computer Science – Health and Life Sciences September Entry

Department of Computer Science and Software Engineering

Year	Term	Course	Title	Credit	Prerequisite	Co-requisite
Year 1	Fall	COMP 232	Mathematics for Computer Science	3.00	MATH 203, 204	
		COMP 248	Object-Oriented Programming I	3.50		MATH 204
		COMP 233	Probability and Statistics for Computer Science	3.00	MATH 205	
		BIOL 261	Molecular and General Genetics	3.00	BIOL 201; CHEM 205, CHEM 206	
		BIOL 266	Cell Biology	3.00	BIOL 201; CHEM 205, CHEM 206	
	Winter	COMP 228	System Hardware	3.00	COMP 248	MATH 203, 204
		COMP 249	Object-Oriented Programming II	3.50	COMP 248; MATH 203	MATH 205
		CHEM 212	Analytical Chemistry for Biologists	3.00	CHEM 205, CHEM 206; PHYS 204, PHYS 224, PHYS 206, PHYS 226; MATH 205	
		CHEM 221	Introductory Organic Chemistry I	3.00	CHEM 205, CHEM 206	
			Elective*			
Year 2	Fall	ENCS 282	Technical Writing and Communication	3.00	Students must pass the Engineering	
					Writing Test (EWT), or pass ENCS 272 with a grade of C- or higher	
		CHEM 271	Bi och emistry I	3.00	CHEM 221	
		COMP 348	Principles of Programming Languages	3.00		COMP 249
		COMP 352	Data Structures and Algorithms	3.00	COMP 249	COMP 232
			Elective*			
	Winter	BIOL 367	Molecular Biology	3.00	BIOL 261; CHEM 271	
	winter	COMP 346	Operating Systems	4.00	COMP 228 or SOEN 228; COMP 352	
		COIVIP 540	Elective*	4.00	CONIP 228 01 SOEIN 228, CONIP 552	
Year 3	Fall	COMP 335	Introduction to Theoretical Computer Science	3.00	COMP 232 or COEN 231; COMP 249 or COEN 244	
		BIOL 481	Genome Structure	3.00	BIOL 367 and permission of the Department	
		ENCS 333	Research Methods, Ethics, Law and Regulation for	3.00	ENCS 282; minimum of 27 credits taken	
			Computational Biology		as part of the BCompSc in Health and Life Sciences	
			Elective*			
	Winter	COMP 354	Introduction to Software Engineering	4.00	COMP 352; ENCS 282	
				3.00		
		BIOL 479	Computational Biology Elective*	3.00	BIOL 261; COMP 352	

*Please note, only core courses are listed above and not all electives are assigned a row in the above sequence.

For the list of electives which students must complete, please consult section 71.75.1 of the Undergraduate Calendar. Students in the Bachelor of Computer Science should follow the academic calendar for the year to which they have been admitted/readmitted. To be considered full-time, students must register for a minimum of 12 credits per term.



GINA CODY SCHOOL OF ENGINEERING AND COMPUTER SCIENCE

Computer Science – Health and Life Sciences

Department of Computer Science and Software Engineering

January Entry

Year	Term	Course	Title	Credit	Prerequisite	Co-requisite
Year 1	Winter	CHEM 212	Analytical Chemistry for Biologists	3.00	CHEM 205, CHEM 206; PHYS 204, PHYS	
					224, PHYS 206, PHYS 226; MATH 205	
		CHEM 221	Introductory Organic Chemistry I	3.00	CHEM 205, CHEM 206	
		COMP 232	Mathematics for Computer Science	3.00	MATH 203, 204	
		COMP 248	Object-Oriented Programming I	3.50		MATH 204
			Elective*			
	Summer	ENCS 282	Technical Writing and Communication	3.00	Students must pass the Engineering	
					WritingTest (EWT), or pass ENCS 272 with a grade of C- or higher	
		COMP 228	System Hardware	3.00	COMP 248	MATH 203, 204
		COMP 233	Probability and Statistics for Computer Science	3.00	MATH 205	,
		COMP 249	Object-Oriented Programming II	3.50	COMP 248; MATH 203	MATH 205
			Elective*			
Year 2	Fall	BIOL 261	Molecular and General Genetics	3.00	BIOL 201; CHEM 205, CHEM 206	
		BIOL 266	Cell Biology	3.00	BIOL 201; CHEM 205, CHEM 206	
		CHEM 271	Biochemistry I	3.00	CHEM 221	
		COMP 335	Introduction to Theoretical Computer Science	3.00	COMP 232 or COEN 231; COMP 249 or COEN 244	
		COMP 352	Data Structures and Algorithms	3.00	COMP 249	COMP 232
	Winter	BIOL 367	Molecular Biology	3.00	BIOL 261; CHEM 271	
		COMP 346	Operating Systems Elective*	4.00	COMP 228 or SOEN 228; COMP 352	
Year 3	Fall	BIOL 479	Computational Biology	3.00	BIOL 261; COMP 352	
Tear 5	Tan	BIOL 481	Genome Structure	3.00	BIOL 367 and permission of the	
					Department	
		ENCS 333	Research Methods, Ethics, Law and Regulation for	3.00	ENCS 282; minimum of 27 credits taken	
			Computational Biology		as part of the BCompSc in Health and Life Sciences	
			Elective*			
	Winter	COMP 348	Principles of Programming Languages	3.00		COMP 249
		COMP 354	Introduction to Software Engineering	4.00	COMP 352; ENCS 282	
			Elective*			

*Please note, only core courses are listed above and not all electives are assigned a row in the above sequence.

For the list of electives which students must complete, please consult section 71.75.1 of the Undergraduate Calendar. Students in the Bachelor of Computer Science should follow the academic calendar for the year to which they have been admitted/readmitted. To be considered full-time, students must register for a minimum of 12 credits per term.

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		BIOL 266	Cell Biology	3.00	BIOL 201; CHEM 205, CHEM 206		only core
		CHEM 221	Introductory Organic Chemistry I	3.00	CHEM 205, CHEM 206		are listed a
			, , ,				all electiv
	Winter	COMP 228	System Hardware	3.00	COMP 248	MATH 203, 204	assigned a
		COMP 249	Object-Oriented Programming II	3.50	COMP 248, MATH 203	MATH 205	the seque
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				0.00	224, PHYS 206, PHYS 226; MATH 205		electives
		CHEM 271	Biochemistry I	3.00	CHEM 221		students
		CITER 271	Elective*	5.00	GITEWI ZZI		complete,
			Elective				consult
	C	COM (D 222	Due he hiliture and Chestistics for Comparison Coion as	2.00			71.75.1 0
	Summer	COMP 233 COMP 348	Probability and Statistics for Computer Science	3.00	MATH 205	COMP 249	Undergrad
			Principles of Programming Languages	3.00	COMID 340		Calendar.
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		ENCS 282	Technical Writing and Communication	3.00	Students must pass the Engineering		Students
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					with a grade of C- or higher		
			Elective*				academic
2	Fall	Work Term 1					calendar
							year to they have
	Winter	BIOL 367	Molecular Biology	3.00	BIOL 261; CHEM 271		admitted/
		COMP 346	Operating Systems	4.00	COMP 228 or SOEN 228; COMP 352		ted.
			Elective*				
							To be cor
	Summer	Work Term 2					full-time, students
3	Fall	BIOL 479	Computational Biology	3.00	BIOL 261; COMP 352		register
		BIOL 481	Genome Structure	3.00	BIOL 367 and permission of the		minimum
					Department		credits pe
		ENCS 333	Research Methods, Ethics, Law and Regulation for	3.00	ENCS 282; minimum of 27 credits taken		
			Computational Biology		as part of the BCompSc in Health and Life		
					Sciences		
			Elective*				
	Winter	Work Term 3					
	Summer	COMP 335	Introduction to Theoretical Computer Science	3.00	COMP 232 or COEN 231; COMP 249 or		
	Junner		indeduction to medicated computer science	5.00	COEN 244		
		COMP 354	Introduction to Software Engineering	4.00	COMP 352; ENCS 282		