Physics – Area of Concentration
Track I: Computational Physics

FIRST YEAR COURSE SCHEDULE							
?	Fall Semester	Code	Credits	?	Spring Semester	Code	Credits
	CHEM 111/111L Principles of Chemistry I & Lab	R	4		CHEM 112/112L Principles of Chemistry II & Lab	R	4
	MATH 175 Calculus I	G	4		ENG 100 Writing I	G	3
	CS 170 Introduction to Computer Science	R	4		COMS 108 Fundamentals of Speech	G	3
	FYS 101 First Year Seminar	G	3		PHYS 270 Introduction to Scientific Computing	R	3
					MATH 275 Calculus II	R	4
Total Credit Hours			15	Total Credit Hours			17

SECOND YEAR COURSE SCHEDULE							
?	Fall Semester	Code	Credits	?	Spring Semester	Code	Credits
	MATH 276 Calculus III	R	4		HUM I	G	3
	PHYS 231/231A Engineering Physics I & Lab	R	5		PHYS 232/232A Elementary Physics II & Lab	R	5
	ENG 200 Writing II	G	3		MATH 363 Differential Equations	R/U	3
	CS 303 Data Structures	R/U	3		SBS I	G	3
Total Credit Hours			15	Total Credit Hours			14

THIRD YEAR COURSE SCHEDULE							
?	Fall Semester	Code	Credits	?	Spring Semester	Code	Credits
	PHYS 353 Concepts of Modern Physics I	R/U	4		HUM II	G	3
	PHYS 340 Experimental Physics	R/U	3		PHYS 411 Thermodynamics	R/U	3
	PHYS 381 Computer Solutions	R/U	3		PHYS 354 Concepts of Modern Physics II	R/U	3
	NCS I	G	3		SBS II	G	3
	MATH 312 Numerical Methods	R/U	3		NCS II	G	3
Total Credit Hours			16	Total Credit Hours			15

FOURTH YEAR COURSE SCHEDULE							
?	Fall Semester	Code	Credits	?	Spring Semester	Code	Credits
	PHYS 391 Dynamics	R/U	3		Major elective	R/U	6
	PHYS 481 Mathematics for Scientists & Eng	R/U	3		PHYS 499D Senior Thesis II	G/U	1
	PHYS 499C Senior Thesis I	G/U	2		Elective	*/U	3
	Major course	R/U	3		CS 420 Data Mining Concepts	R/U	3
	Elective	*/U	4				
Total Credit Hours			15	Total Credit Hours			13

<u>Codes</u>
(U) Upper Division Course 300-400 level (you must have 42 hours)
(R) Required Course
(G) General Education Course