

CURRICULUM MAP–B.S. in Physics - ASTROPHYSICS 2019-20

FIRST YEAR COURSE SCHEDULE							
✓	Fall Semester	Code	Credits	✓	Spring Semester	Code Credits	
	CHEM 111 Principles of Chemistry I	S	4		CHEM 112 Principles of Chemistry II	S 4	
	FYS 101 First Year Seminar	G	3		ASTR 130 Stars, Galaxies, & Cosmol	3	
	MATH 175 – CORE – Calculus I	G	4		ENG 100 Writing I	G 3	
	NSC 2 – ASTR 125 (Exchange)	G	3		COMS 108 Fundamentals of Speech	G 3	
					MATH 275 Calculus II	4	
Total Credit Hours			14	Total Credit Hours			17

SECOND YEAR COURSES SCHEDULE							
✓	Fall Semester	Code	Credits	✓	Spring Semester	Code Credits	
	MATH 276 Calculus III		4		PHYS 232 Engineering Physics II	4	
	PHYS 231 Engineering Physics I		4		PHYS 232A Engineering Physics II Lab	1	
	PHYS 231A Engineering Physics I Lab		1		NSC 1 – Natural Sciences Elective	G 3	
	SBS 1 – Social/Behavioral Sci Elective	G	3		HUM 1 – Humanities Elective	G 3	
	ENG 200 Writing II	G	3		SBS 2 – Social/Behavioral Sci Elective	G 3	
Total Credit Hours			15	Total Credit Hours			14

THIRD YEAR COURSE SCHEDULE							
✓	Fall Semester	Code	Credits	✓	Spring Semester	Code Credits	
	ASTR 311 Astrophysics I	U, R	3		ASTR 312 Astrophysics II	U, R 3	
	MATH 363 Differential Equations	U	3		ASTR 324 Radio Astronomy	U, R 3	
	PHYS 270 Intro to Scientific Computing		3		ESS 303 Planetary Geology	U, R 3	
	PHYS 353 Concepts Modern Physics I	U	4		PHYS 354 Concepts Modern Physics II	U 3	
	PHYS 391 Dynamics	U, S	3		PHYS 493 Quantum Mechanics	U, S 3	
Total Credit Hours			16	Total Credit Hours			15

FOURTH YEAR COURSE SCHEDULE							
✓	Fall Semester	Code	Credits	✓	Spring Semester	Code Credits	
	ASTR 431 Space Plasma Physics	U, R	3		ASTR 460 High Energy Astrophysics	U, R 3	
	PHYS 340 Experimental Physics	U, S	3		PHYS 332 Electricity & Magnetism	U, S 4	
	PHYS 481 Math for Eng & Sci	U	3		PHYS 381 Computer Solutions to Engineering & Science Problems	U, S 3	
	ASTR 498 Senior Research	U, R	1		Technical Elective	U 3	
	ASTR 499C Senior Thesis I	U, G	2		ASTR 499D Senior Thesis II	U, G 1	
	HUM 2 – Humanities Elective	G	3				
Total Credit Hours			15	Total Credit Hours			14

Total Credit Hours = 120

Total General Education Credit Hours = 37

Total Upper Division Credit Hours = 44-50

(*Note: if the student needs MATH 174, then MATH 174 replaces the elective course

(U) Upper Division course

(G) General Education course