CURRICULUM MAP - B.S. in Physics AREA OF CONCENTRATION IN ASTROPHYSICS

If you are required to complete any developmental courses, you may not be able to complete the degree in four years. This curriculum map assumes that you have not transferred in any previously completed college level courses.

FIRST YEAR COURSE SCHEDULE							
✓	**Fall Semester**	Code	Credits	✓	**Spring Semester**	Code	Credits
	CHEM 111 Principles of Chemistry I		4		CHEM 112 Principles of Chemistry II		4
	NSC 2 - ASTR 125 (Exchange)	G	3		ENG 100 - Writing I	G	3
					NSC 1 - Natural Sciences - Elective	G	3
	FYS 101 First Year Seminar	G	3		ASTR 130—Stars, Galaxies, and Cosmology		3
	MATH 175 – CORE - Calculus I	G	4		COMS 108 – Fundamentals of Speech Comm.	G	3
Total Credit Hours			14	Total Credit Hours			16

SECOND YEAR COURSE SCHEDULE							
✓	**Fall Semester**	Code	Credits	✓	**Spring Semester**	Code	Credits
	MATH 275 - Calculus II		4		MATH 276 - Calculus III		4
	PHYS 231 - Engineering Physics I		4		PHYS 232 - Engineering Physics II		4
	PHYS 231A - Engineering Physics I Lab		1		PHYS 232A - Engineering Physics II Lab		1
	ESS 303- Planetary Geology	U, O	3		HUM 1 – Humanities Elective	G	3
	SBS 1 – Social/Behavioral Sciences - Elective	G	3		ENG 200 - Writing II	G	3
Total Credit Hours			15	Total Credit Hours			15

THIRD YEAR COURSE SCHEDULE							
✓	**Fall Semester**	Code	Credits	✓	**Spring Semester**	Code	Credits
	ASTR 311- Astrophysics I	U, O	3		ASTR 312 - Astrophysics II	U,O	3
	PHYS 353 – Concepts of Modern Physics I	U	4		MATH 363 - Differential Equations	U	3
	Technical Elective	U, O	3		PHYS 270 – Introduction to Scientific Computing		3
	PHYS 481 – Math for Eng. And Sci.	U	3		ASTR 324 Radio Astronomy	U,O	3
	SBS 2 –Social/Behavioral Sciences - Elective	G	3		PHYS 354 – Concepts of Modern Physics II	U	3
Total Credit Hours			16	Total Credit Hours			15

FOURTH YEAR COURSE SCHEDULE							
✓	**Fall Semester**	Code	Credits	✓	**Spring Semester**	Code	Credits
	PHYS 391 Dynamics	U, O	3		PHYS 332 – Electricity and Magnetism	U,O	4
	PHYS 381 Computer Solutions to Engineering and Science Problems	U	3		ASTR 460 High Energy Astrophysics	U,O	3
	ASTR 498 – Senior Research	U, O	1				
	ASTR 499C – Senior Thesis I	U,G	2		ASTR 499D–Senior Thesis II	U	1
	PHYS 340 Experimental Physics	U	3		ASTR 431 Space Plasma Physics	U,O	3
	HUM 2 – Humanities - Elective	G	3		PHYS 493 Quantum Mechanics	U,O	3
Total Credit Hours			15	Total Credit Hours			14

Total Credit Hours = 120
Total General Education Credit Hours = 37
Total Upper Division Credit Hours = 51-54

Codes
(U) Upper Division Course
(O) Option Course
(G) General Education Course