

CURRICULUM MAP–Area of Concentration SPACE SCIENCE 2018-19

FIRST YEAR COURSE SCHEDULE

✓	Fall Semester	Code	Credits		✓	Spring Semester	Code	Credits
	SSE 105 – Intro to Electronic Processes	R	3			SSE 120 - Satellites & Space Systems I	R	3
	ENG 100 - Writing I	G	3			MATH 175 - CORE - Calculus I	G	4
	FYS 101 – First Year Seminar	G	3			ENG 200 - Writing II	G	3
	NSC 2 - ASTR 125 (Exchange)	G	3			HUM 2 – Humanities Elective	G	3
	CHEM 111/L – Princ of Chemistry I	R	4			COMS108 – Fundamentals of Speech Comm.	G	3
Total Credit Hours			16		Total Credit Hours			16

SECOND YEAR COURSE SCHEDULE

✓	Fall Semester	Code	Credits		✓	Spring Semester	Code	Credits
	SSE 122 - Satellites & Space Systems II	R	3			PHYS 232 - Engineering Physics II	S	4
	MATH 275 - Calculus II	S	4			PHYS 232A - Engineering Physics II Lab	S	1
	PHYS 231- Engineering Physics I	S	4			SSE 210 – Spacecraft Mec Systems	R	3
	PHYS 231A - Engineering Physics I Lab.	S	1			SBS 1 - Social/Behavioral Sci	G	3
	NSC - 1	G	3			SBS – 2 – Social/Behavioral Sci Elect	G	3
	HUM 1 – Humanities Elective	G	3					
Total Credit Hours			18		Total Credit Hours			14

THIRD YEAR COURSE SCHEDULE

✓	Fall Semester	Code	Credits		✓	Spring Semester	Code	Credits
	SSE 380 – Materials Science for Space Applications	R,U	3			SSE 320 Spacecraft Electronics Systems	R,U	3
	SSE 301 – Linear Circuits	R	4			SSE 360 - Advanced Space Systems	R,U	3
	MATH 276 - Calculus III	S	4			SSE 341 – Solid State Devices & Appl.	R, U	3
	PHYS 270- Introduction to Sci. Computing	S	3			PHYS 381 – Computer Solutions to Eng. & Sci. Problems	R,U	3
	SSE 340 – Digital Control Sys for Space	R,U	4					
Total Credit Hours			18		Total Credit Hours			12

FOURTH YEAR COURSE SCHEDULE

✓	Fall Semester	Code	Credits		✓	Spring Semester	Code	Credits
	SSE 442 - RF/Microwave Systems and Antennas	R,U	3			SSE 431 – Space Plasma Physics	R,U	3
	EEC 400 – Digital Signal Processing	R, U	3			SSE 444 – Satellite Communications	R,U	3
	SSE 498 - Senior Design Project I	R,U	2			SSE 445 – Space Systems Communications Lab	R,U	1
	SSE 324 – Radio Astronomy	R,U	3			Technical Elective	U	3
	Technical Elective		2			SSE 499C – Senior Design Project II	U, G	3
Total Credit Hours			13		Total Credit Hours			13

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

