

CURRICULUM MAP– SPACE SYSTEMS ENGINEERING Area 2020-21

FIRST YEAR COURSE SCHEDULE

✓	Fall Semester	Code	Credits	✓	Spring Semester	Code	Credits
	SSE 105/L – Intro to Electronic Processes	R	3		SSE 120/L - Satellites & Space Systems	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/L - 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/L – Spacecraft Mec Systems	R	3
	PHYS 231L - 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 340L – Digital Control Sys for Space	R,U	4		SSE 320/L Spacecraft Electronics Systems	R,U	3
	PHYS 211/L - Circuits	R	4		SSE 360 - Advanced Space Systems	R,U	3
	MATH 276 - Calculus III	S	4		SSE 370 – Core Flight Software	R,U	3
	MATH 312 - Numerical Methods	S	3		ETM 307/L Materials Science	R,U	3
Total Credit Hours			15	Total Credit Hours			12

FOURTH YEAR COURSE SCHEDULE

✓	Fall Semester	Code	Credits	✓	Spring Semester	Code	Credits
	SSE 442/L - RF/Microwave Systems and Antennas	R,U	3		SSE 324 – Radio Astronomy	R,U	3
	EEC 400/L – Digital Signal Processing	R, U	3		SSE 444/L – Satellite Communications	R,U	3
	SSE 498 - Senior Design Project I	R,U	2		SSE 445 – Space Systems Communications Lab	R,U	1
	SSE 431 – Space Plasma Physics	R,U	3		SSE 475 – Rocket Propulsion	U	3
	SSE 464 - Astrodynamics	R, U	3		SSE 499C – Senior Design Project II	U, G	3
	Technical Elective		2				
Total Credit Hours			16	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 cours

