

# CURRICULUM MAP– Space Systems Engineering Area, BS

**2021 +**

## 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 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
	Level 2 NSC - ASTR 125 recommended	G	3			Level 2 HUM – Humanities Elective	G	3
	Level 2 NSC CHEM 111/111L – Princ of Chemistry I	R,G	4			COMS 108 – Fundamentals of Speech Comm.	G	3
<b>Total Credit Hours</b>			<b>16</b>		<b>Total Credit Hours</b>			<b>16</b>

## SECOND YEAR COURSE SCHEDULE

✓	Fall Semester	Code	Credits		✓	Spring Semester	Code	Credits
	SSE 122/L - Satellites & Space Systems II	R	3			SSE 210/L – Spacecraft Mec Systems	R	3
	MATH 275 - Calculus II	S	4			PHYS 232/L - Engineering Physics II	S	5
	PHYS 231/L - Engineering Physics I	S	5			Level 2 SBS - Social/Behavioral Sci	G	3
	Level 3 HUM – Humanities Elective	G	3			Level 3 SBS – Social/Behavioral Sci	G	3
<b>Total Credit Hours</b>			<b>15</b>		<b>Total Credit Hours</b>			<b>14</b>

## 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
						Free Elective		2
<b>Total Credit Hours</b>			<b>15</b>		<b>Total Credit Hours</b>			<b>14</b>

## 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	3
	Technical Elective	R,U	3					
<b>Total Credit Hours</b>			<b>17</b>		<b>Total Credit Hours</b>			<b>13</b>

Total Credit Hours = 120

Total General Education Credit Hours = 35

Total Upper Division Credit Hours = 44-50

(R) Required (E) Elective

(G) General Education course

(U) Upper Division course