(591) Astronautical Engineering Matrix - URL Matrix w/ Integrated JPME and Refresher (updated 5/21/2024)

Qtr	Course	Course	Course	Course	Seminar	Course
0 Su	MA1995 (5-1)	MA1996 (5-1)	PH1121 (4-2)	PH1322 (4-2)	SS4000 (0-1)	
	Engineering Math I	Engineering Math II	Mechanics	Electromagnetism	Seminar	
1 F	MA2097 (4-0)	AF2440	AE3840 (3-2)	ME2801 (3-2)	SS4000 (0-1)	
	` ,	AE2440 Introduction to	Introduction to	, ,	Seminar	
	Engineering Math III	Scientific Programming	Spacecraft Structures	Control Systems	Seminar	
		Scientific Programming	Spaceciali Siluciules			
2 W	SS3500 (4-2)	PH3052 (4-0)	EO3510 (4-1)	AE3804 (3-0)	SS4000 (0-1)	JPME - NW3230 (4-0)
	Orbital Mechanics	Remote Sensing	S/C Communications	Thermal Control	Seminar	Strategy & War
	& Launch Systems		Engineering	of Spacecraft		
3 Sp	PH2514 (4-0)	MN3331(5-1)	AE3818 (3-2)	AE3830 (3-2)	SS4000 (0-1)	JPME - NW3285 (4-0)
	Space Environment	Principles of Acquisition	Spacecraft Attitude	Spacecraft	Seminar	Theater Security
		& Pgm Management	Determination & Control	Guidance & Control		Decision Making
4 Su	SS3861 (2-4)	EC3230 (3-1)	AE3851 (3-2)	AE3811 (2-4)	SS4000 (0-1)	MA3232 (4-0)
4 3u	Spacecraft	Space Power	Spacecraft Propulsion	Space Systems	Seminar	Numerical Analysis
	Payload Design	Space Fower	Spaceciall Propulsion	Laboratory	Seninai	Numerical Analysis
	r dylodd Boolgii			Laboratory		
5 F	AE4870 (2-4)	AE0810 (0-8)	Degree/Track Elective	Degree/Track Elective	SS4000 (0-1)	JPME - NW3275 (4-0)
	Spacecraft Design	Thesis Research			Seminar	Joint Maritime
	& Integration I					Operations - Part 1
0.14/	AE 4070 (0.4)	000004 (4.4)	AF0040 (0.0)	D /T F /	CC4000 (0.1)	IDME NIM/2076 (2.2)
6 W	AE4872 (2-4)	SS3001 (4-1)	AE0810 (0-8)	Degree/Track Elective	SS4000 (0-1)	JPME - NW3276 (2-2)
	Spacecraft Design	Military Applications	Thesis Research		Seminar	Joint Maritime
	& Integration II	of Nat. Space TS/SCI				Operations - Part 2
7 Sp	SS3051 (4-0)	AE0810 (0-8)	AE0810 (0-8)	Degree/Track Elective		Legend
	Mil. DoD &	Thesis Research	Thesis Research	J		Preparatory Courses
	Comm Space					591 Core
	(S) [']					Electives*
						JPME

^{*} Consult with your thesis advisor