Preliminary Astronautics Class Schedule (as of Mar 2022)

(subject to change – always check with ASTE Student Adviser)

		_			2022	2023	2023	2024	2024	2025	2026	2026		
Required Courses					Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring		
ASTE 520	Spacecraft Design	1	D	R	▼		•		•		•			
ASTE 535	Space Environment and Spacecraft Interactions	2	D	R	•	•	•	•	•	•	•	▼		
ASTE 580	Orbital Mechanics I	2	D	R	▼	▼	▼	▼	•	▼	▼	▼		
	Orbital Mechanics I		D	R		also	offered i	n summe	ers se	ee next p	age			
ASTE 470*	Spacecraft Propulsion	1	D	R	▼	▼ see				next page				
ASTE 575*	Rocket and SC Propulsion	1	D	R		▼		▼		V		V		
Elective Co	·													
ASTE 501ab	Physical Gas Dynamics I, II	lr	N	С			a-?		a-?		a-?			
ASTE 505ab	Plasma Dynamics I, II	1#	N	С	а		а		а		а			
ASTE 523	Design Low Cost Sp Missions	#	D	С		▼				▼				
ASTE 524	Human Spaceflight	1	D	С	▼		▼		▼		▼			
ASTE 527	Space Studio Architecting	1	D	С	▼		▼		▼		▼			
ASTE 528	Reliability of Space Systems	#	D	С			▼				▼			
ASTE 529	Safety Space Sys. & Missions	#	D	С		▼				▼				
ASTE 546	Comp. Plasma Dynamics	#	N	Ε		▼				▼				
ASTE 552	Spacecraft Thermal Control	#	D	С			▼				▼			
ASTE 553	Sys Remote Sensing Space	#	D	С	▼				▼					
ASTE 554	Spacecraft Sensors	#	D	С			▼				▼			
ASTE 555	Space Cryogenic Sys & Applic	#	D	С		see next page								
ASTE 556	SC Structural Dynamics	#	D	С	▼				▼					
ASTE 557	SC Structural Materials	#	D	С			•							
ASTE 561	Human Factors Spacecraft Ops	1	D	С	▼		•		•		•			
ASTE 562	Spacecraft Life Support Sys	1	D	С		•		•		•		▼		
ASTE 566	Ground Comm Satellite Ops	1	Ν	С	▼	•	•	•	•	•	•	▼		
ASTE 570	Liquid Rocket Propulsion	1	D	С		▼		▼		▼		▼		
ASTE 571	Solid Rocket Propulsion	#	D	С	▼				▼					
ASTE 572	Advanced SC Propulsion	1	D	С		▼		▼		▼		▼		
ASTE 574	Space Launch Vehicle Design	1	D	С		▼		▼		▼		▼		
ASTE 577	Entry & Landing Planet. Sys.	1	D	С	▼		▼		▼		▼			
ASTE 581	Orbital Mechanics II	1	D	С		▼		▼		▼		▼		
ASTE 583	Space Navigation	#	D	С			▼				▼			
ASTE 584	SC Power Systems	1	D	С		▼		▼		▼		▼		
ASTE 585	SC Attitude Control	1	D	С			offered	-	ners	see next	page			
ASTE 586	SC Attitude Dynamics	#	D	С				▼				▼		
ASTE 589	Solar System Navigation	#	D	С	▼				▼					
ASTE 599	Safety of Space Operations	#	D	Е				▼				▼		
ASTE 599	to be announced	_		E										
ASTE 683	Adv. Spacecraft Navigation	lr	D	Е		▼				•				

^{*}ASTE 575 and ASTE 575 --- see the next page

Required course in spacecraft propulsion

The required ASTE-470 is not available for graduate credit anymore.

It has been replaced by ASTE-575 which is required for MS ASTE and is identical to ASTE-470. (ASTE-575 duplicates the credit for ASTE-470).

Graduate students pursuing MS ASTE are required from now on to take ASTE-575.

In Fall 2022, ASTE-470 will be open to undergraduate students only. For Master's students, special permission is needed to take ASTE-470 in Fall 2022 when it is offered for the last time.

Courses in summer

Required Courses					2022 summer	2023 summer	2024 summer	2025 summer	
ASTE 580	Orbital Mechanics I	2	D	R	▼	▼	▼ ▼		
Elective Courses									
ASTE 585	Spacecraft Attitude Control	1	D	С	•	▼	•	•	

Courses listed but not offered (due to availability of instructors)

Elective Courses												
ASTE 501b	Physical Gas Dynamics II	lr	N	С								
ASTE 555	Space Cryogenic Sys & Applic	#	D	С								
ASTE 584	SC Power Systems	1	D	С	We plan to offer ASTE-584 annually from spring 2023							

Table notation

SC = spacecraft

2 = course offered in both fall and spring each year

1 = course offered each year

= course offered every second year

Ir = course offered irregularly

▼ = planned (subject to School approval)

R = required MS ASTE

C = core elective MS ASTE

E = technical elective

D = webcast through DEN

N = on campus; not available through DEN

? = uncertain, check with ASTE Student Adviser

The course schedule is subject to change. Please check with ASTE Student Advisor.