

Preliminary Astronautics Class Schedule (as of Nov 2023)

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

					2023	2024	2024	2025	2025	2026	2026	2027
					Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
Required Courses												
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 in summers -- see next page						
ASTE 575	Rocket and SC Propulsion	1	D	R		▼		▼		▼		▼
Elective Courses												
ASTE 501a	Physical Gas Dynamics I	1r	D	C	▼				▼			
ASTE 505ab	Plasma Dynamics I, II	1#		C	a		a	b-cwi	a	b-cwi	a	b-cwi
ASTE 523	Design Low Cost Sp Missions	#	D	C				▼				▼
ASTE 524	Human Spaceflight	1	D	C	▼		▼		▼		▼	
ASTE 527	Space Studio Architecting	1	D	C	▼	▼	▼	▼	▼	tbc	▼	tbc
ASTE 528	Reliability of Space Systems	#	D	C	▼				▼			
ASTE 529	Safety Space Sys. & Missions	#	D	C				▼				▼
ASTE 546	Comp. Plasma Dynamics	#	N	E		▼		cwi		cwi		cwi
ASTE 552	Spacecraft Thermal Control	#	D	C	▼				▼			
ASTE 553	Sys Remote Sensing Space	#	D	C			▼				▼	
ASTE 554	Spacecraft Sensors	#	D	C					▼			
ASTE 555	Space Cryogenic Sys & Applic	#	D	C		see next page						
ASTE 556	SC Structural Dynamics	#	D	C			▼				▼	
ASTE 557	SC Structural Materials	#	D	C	▼				▼			
ASTE 561	Human Factors Spacecraft Ops	1	D	C	▼		▼		▼		▼	
ASTE 562	Spacecraft Life Support Sys	1	D	C		▼		▼		▼		▼
ASTE 566	Ground Comm Satellite Ops	1	D	C		▼		▼		▼		▼
ASTE 570	Liquid Rocket Propulsion	1	D	C		▼		▼		▼		▼
ASTE 571	Solid Rocket Propulsion	#	D	C			▼				▼	
ASTE 572	Advanced SC Propulsion	1	D	C		▼		▼		▼		▼
ASTE 574	Space Launch Vehicle Design	1	D	C		▼		▼		▼		▼
ASTE 577	Entry & Landing Planet. Sys.	1	D	C	▼		▼		▼		▼	
ASTE 581	Orbital Mechanics II	1	D	C		▼		▼		▼		▼
ASTE 583	Space Navigation	#	D	C	▼				▼			
ASTE 584	SC Power Systems	1	D	C		▼		▼		▼		▼
ASTE 585	SC Attitude Control	1	D	C		offered in summers -- see next page						
ASTE 586	SC Attitude Dynamics	#	D	C				▼				▼
ASTE 589	Solar System Navigation	#	D	C			▼				▼	
ASTE 599	Safety of Space Operations	#	D	E		▼				▼		
ASTE 599	to be announced			E								
ASTE 683	Adv. Spacecraft Navigation	1r	D	E				▼				▼

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Required course in spacecraft propulsion

ASTE-575 has replaced ASTE-470 as a required course for MS ASTE.

If you have taken ASTE-470, then there is no need for ASTE-575.

(ASTE-470 duplicates the credit for ASTE-575).

Courses in summer

					2024 summer	2025 summer	2026 summer	2027 summer
Required Courses								
ASTE 580	Orbital Mechanics I	2	D	R	▼	▼	▼	▼
Elective Courses								
ASTE 585	Spacecraft Attitude Control	1	D	C	▼	tbc	tbc	tbc

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

Elective Courses												
ASTE 555	Space Cryogenic Sys & Applic	#	D	C								

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)

tbc = to be confirmed

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 the ASTE Student Adviser

cwi = check with the instructor directly

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