

UBC ATSC Topic Coverage  
Fall 2022

version 4

Number of 50-minute class periods or equiv. (a full term = 36 periods)

Topic	Sum of Lecture days	Course:	GEOS 200	ATSC 201	ATSC 212	GEOS 300	ATSC 301	CHEM 302	ATSC 303	ATSC 313	EOSC 340	GEOS 401	ATSC 404	ATSC 405	ATSC 409	ENVR 410	ATSC 413 (proposed)	ATSC 4xx (proposed)	EOSC 471	MECH 410U (temp.#)
		Atmos. Environ.	Storms	Computer program.	Microscale Weather	Rad. & Remote Sensing	Atmos. Environ. Chemistry	Weather Instrum.	Renewable Energy	Global Climate Change	Urban Meteor.	Dynamic Meteor.	Cloud Physics & Chem.	Numerical Tech.	Energy, Environ. & Society	Forest Fire	Weather	Physical Climate	Physical Made Ling	Physical Ocean.
Dynamics	56.0	2	3		1				1.1	1.0	1.6	32				5.3	6.0	2	1	1
Thermo	48.1	3	10		2			3	0.8		1.6	2	14			0.7	10.0			1
Synoptics	34.5	1	6						2.5						24.0					1
Mesoscale & Severe Weather	9.0		4.5						0.8				3		0.7					
Radiation	43.2	7	1		7	12			1.4	4.0	4.8						6.0			
Remote Sensing (Radar & Satellite)	18.7		2.5		1	9			0.6	2.0					0.7		3.0			
General Circulation	19.1	1	2					2	1.1	1.0		2					10.0			
Tropical Meteorology	4.3		3						0.3								1.0			
Cloud & Precip. Physics	27.4		3						2.8	1.0	1.6		12				6.0			
Climate / Clim.Change	63.6	1			1			3	1.4	24.0	3.2		3		2	2.0	20.0	3		
Boundary Layer	32.4	8			8				1.4		6.4		3			0.7		5		
Instruments/Measurement Methods	49.0	1			2			42	0.8		3.2									
Tropo.Atm.Chemistry / Air Quality	30.7				1			16	0.8		2.2				1	0.7				9
Upper Atmos./ Stratosphere Chem.	10.0							10												
Numerical Weather Pred.	40.0								1.4				36			0.7	2.0			
Mountain Meteorology	4.2	1			1				2.2											
Hydrometeorology	11.4	4			3				2.2		2.2									
Big data & Statistics	3.6				1				0.6								2.0			
GIS	9.0					9														
Computer Programming	46.0			36	2	6					2									
Hydro Energy	4.4								1.4						3					
Wind Energy	4.0								2.5						1.5					
Solar Energy	5.9								2.8		1.6				1.5					
Societal Issues	43.0				2			2	4.4		1.6				13	2.0				18
Forest Fires	6.7														6.7					
Agriculture Meteor.	2.0	2																		
Engineering	6.0																			6
Exams & other meetings		4	1		4			2	3	3	4		1						26	
Sum =		36	36	36	36	36	36	44	36	36	36	36	36	36	22	44	66	36	36	
Offered every ___ years:		1	1	2 or 3	1	2	1	2	1	0.5	1	1 or 2	2	2	1	1	2	1	1	
Course is offered in person, unless indicated:									hybrid								hybrid			