

Monday August 12, 2019		
09:00-09:30	Lecture 1: SAR Teaser Purpose: to get students excited about SAR Content: various examples of SAR applications	Mehdi
09:30-11:30	Lecture 2: SAR Basics Purpose: to teach students fundamentals of SAR	Heather
	Break – will take a 15 minute break at one point during Lecture 2	
12:00-1:00	Lunch	
13:00-13:30	Lecture 3: Matrix Algebra for Geographers	Mehdi
13:30-16:30	Lecture 4: SAR Polarimetry Purpose: to introduce the concept of polarimetry	Mehdi
	Break – will take a 15 minute break at one point during Lecture 4	
Tuesday August 13, 2019		
9:00-11:30	Lecture 5: SAR System Characteristics Related to Target Purpose: get students thinking of how SAR configuration impacts response Content: discussion of frequency, polarization, angle impacts on SAR response	Heather
	Break – will take a 15 minute break at one point during Lecture 5	
12:00-1:00	Lunch	
13:00-13:30	Lab 1: Where's the data? Purpose: to introduce students to various SAR sensors and how to access data	Mehdi
13:30-14:30	Lab 2: What's SNAP? Purpose: to get students familiar with the SNAP environment	Moein & Mehdi
14:30-16:30	Lab 3: pre-processing SAR data in SNAP Purpose: teach end-to-end processing of data Content: accessing data, reading data, data conversion, filtering, ortho correction etc.; order of operation THIS INCLUDES INTER-WOVEN HANDS ON LABS	Moein & Mehdi
	Break – will take a 15 minute break at one point during Lab 3	
Wednesday August 14, 2019		
9:00-11:30	Lecture 6: The Target Purpose: to discuss how water and structure impact SAR response Content: dielectric, roughness, structure; discussion of environmental impacts	Heather
	Break – will take a 15 minute break at one point during Lecture 6	
12:00-13:00	Lunch	
13:00-14:30	Lecture 7: InSAR Theory	Mehdi
14:30-15:00	Break	
15:00-16:30	Lab 4: InSAR Data Processing	Mehdi
Thursday August 15, 2019		
08:30-09:30	Guest Lecture 1: Dr. Brian Brisco – Water applications	Brian
09:30-10:30	Guest Lecture 2: Dr Vern Singhroy – InSAR applications	Vern
10:30-11:00	Break	
11:00-12:00	The SAR Trivia Game, RCM Assembly	Heather
12:00-13:00		
13:00-16:00	Guest Lecture 3: Random Forest Classification - Lab	Sarah-Koreen-Amir
	Break sometime during Guest Lecture	
Friday August 16, 2019		
9:00-10:00	Lab 5: Soil Moisture – Lab	Scott
10:00-12:00	Guest Lecture 4: One slick operation – the AAFC Operational Crop Inventory	Thierry
	Break sometime during Guest Lecture	

12:00-13:00	Lunch	
13:00-14:30	Guest Lecture 5: Object Based Classification	Gabriel
14:30-15:00	Break	
15:00-16:00	Lecture 8: Agriculture Applications	Heather