

## H.G. Heinrich Parachute Systems Short Course – 2016 Edition – FINAL

	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b> (Design problem due today)	<b>Friday</b>
<b>8-9</b>	Welcome; Para-literature; Definitions <b>Potvin</b>	Flight Mechanics <b>Cruz</b>	Materials & Stress/load analysis <b>Wolf</b>	Supersonic Parachutes <b>Underwood</b>	Case Study - LRALT <b>Wolf</b>
<b>9-10</b>	Design Considerations <b>Wolf</b>	Aerodynamics I <b>Underwood</b>	Gliding parachute design  <b>Underwood</b>	Aerodynamic Models for Parachute Dynamics <b>Wolf</b>	Design problem wrap up & debrief <b>Cruz</b>
<b>10-11</b>	Break +  Deployment <b>Wolf</b>	Break +  Impact & Shock Attenuation <b>Wolf</b>	Break+  Gliding Chute Applications  <b>Underwood</b>	Break+  Parachutes for space exploration <b>Underwood</b>	Break+  Introduction to FSI <b>Underwood</b>
<b>11-12</b>	Inflation I: Phenomenology & reefing <b>Potvin</b>	Aerodynamics II <b>Underwood</b>	Testing Measurements & Analysis 2 <b>Watkins</b>	Testing Measurements & Analysis 3  <b>Watkins</b>	<b>Course</b> Evaluation, Intro to ADS TC & Farewell
<b>12-13:30</b>	<b>lunch</b>	<b>lunch</b>	<b>lunch</b>	<b>lunch</b>	<b>lunch</b>
<b>13:30-14:30</b>	Testing overview  <b>Wolf</b>	Inflation II: Estimators; Scaling; Modeling <b>Potvin</b>	Parachute Opening Shock <b>Wolf</b>	Inflatable Aerodynamic Decelerators  <b>Cruz</b>	
<b>14:30-15:30</b>	Break+  Presentation of design problem <b>Cruz</b> How to approach design <b>Cruz and TBD</b>	Break +  Design Problem Lab (Q&A with Instructors; small group discussions)	Break +  Design Problem Lab (Q&A with Instructors; small group discussions)	Break+  Case Study – ARES Parachutes <b>Wolf</b>	
<b>15:30-16:30</b>	Deployment & packing demo  <b>Watkins</b> <b>Potvin</b>	Testing Measurements & Analysis 1 <b>Watkins</b>	Wind tunnel testing <b>Cruz</b>	Testing Measurements & Analysis 4  <b>Watkins</b>	
<b>18:00</b>	<b>Ice-breaker</b> <b>dinner @ Abbey</b> <b>restaurant</b>				