**SECOND SEMESTER**

**Jan 10-13**

**Unit 6: Introduction to Drones and UAS Operations**

**Pre-Course Exam**

**Section A** – Drones and their Components

Lesson 1 Introduction to UAS-1

Lesson 1 Introduction to UAS-2

Lesson 2 How Drones Fly-1

**Jan 17-20**

Lesson 2 How Drones Fly-2

Lesson 2 How Drones Fly-3

**Section B** - Part 107 and Beyond

Lesson 1 Part 107: An Introduction-1

Lesson 1 Part 107: An Introduction-2

**Jan 24-27**

Lesson 2 Part 107: Operating Rules and Waivers-1

Lesson 2 Part 107: Operating Rules and Waivers-2

Lesson 2 Part 107: Operating Rules and Waivers-3

Lesson 3 Beyond 107: Best Practices and Being a Good Neighbor-1

**Jan 31 - Feb 3**

Lesson 3 Beyond 107: Best Practices and Being a Good Neighbor-1

**Unit 6 Exam**

**Unit 7: Operational Decision Making**

**Section A** – Weather and Performance

Lesson 1 Practical Weather for UAS Pilots-1

Lesson 1 Practical Weather for UAS Pilots-2

**Feb 7-10**

Lesson 1 Practical Weather for UAS Pilots-3

Lesson 2 Small UAS Loading-1

Lesson 2 Small UAS Loading-2

Lesson 3 UAS Aerodynamics and Performance-1

**Feb 14-17 ---Grades Go In**

Lesson 3 UAS Aerodynamics and Performance-2

Lesson 3 UAS Aerodynamics and Performance-3

**Section B** – UAS Crew Management

Lesson 1 Preflight and Maintenance-1

Lesson 1 Preflight and Maintenance-2

**\*\*\*No School Feb 20-24\*\*\***

**Feb 28-Mar 3**

Lesson 1 Preflight and Maintenance-3

Lesson 2 UAS Crew Resource Management and Communications-1

Lesson 2 UAS Crew Resource Management and Communications-2

Lesson 2 UAS Crew Resource Management and Communications-3

**Mar 7-10**

Lesson 3 Handling Emergencies-1

Lesson 3 Handling Emergencies-2

Lesson 3 Handling Emergencies-3

Lesson 4 Human Factors and ADM-1

**Mar 14-17**

Lesson 4 Human Factors and ADM-2

Lesson 4 Human Factors and ADM-3

Lesson 4 Human Factors and ADM-4

**Unit 7 Exam**

**Mar 21-24**

**Unit 8: Becoming a Commercial sUAS Pilot**

Section A – Part 107 Exam Preparation

Lesson 1 Group Project: -1-4

Your Turn to Teach 10 46 Regulations Airspace and Requirements Weather Loading and Performance

Operations

**Mar 28-31**

Lesson 1 Group Project: Days 4-8

**April 4-6 no school on 7th**

Lesson 1 Group Project: 9-10

Unit 8 Practice Exam

**April 18-21**

**Unit 9: From Theory to Practice: Planning and Executing a Mission**

**Section A** – Flight School

Lesson 1 The Right Drone for the Job-1

Lesson 1 The Right Drone for the Job-2

Lesson 2 Expert Mode-1

Lesson 2 Expert Mode-2

\*\*\*NO School  **April 11 -14 Easter\*\*\***

**April 25-28**

Lesson 2 Expert Mode-3

Lesson 2 Expert Mode-4

Lesson 3 Learning to Fly: Fundamentals of Control-1

Lesson 3 Learning to Fly: Fundamentals of Control-2

**May 2-5**

Lesson 3 Learning to Fly: Fundamentals of Control-3

Lesson 3 Learning to Fly: Fundamentals of Control-4

**Section B** – Drones in Action

Lesson 1 Real-World Experience: UAS Team Operations-1

Lesson 1 Real-World Experience: UAS Team Operations-2

**May 9-12**

Lesson 1 Real-World Experience: UAS Team Operations-3

Lesson 1 Real-World Experience: UAS Team Operations-4

Lesson 1 Real-World Experience: UAS Team Operations-5

Lesson 1 Real-World Experience: UAS Team Operations-6

**May 16-19**

Lesson 1 Real-World Experience: UAS Team Operations-7

Lesson 1 Real-World Experience: UAS Team Operations-8

Lesson 1 Real-World Experience: UAS Team Operations-9

Lesson 1 Real-World Experience: UAS Team Operations-10

**May 23-26**

**Post-Course Exam**

May 30 - June 2

**Maps**