

**ASEN 5519 UAS in the NAS
Spring 2006
Tentative Schedule and Assignments**

Week	TUESDAY Discussion/Lecture 9:30-10:45 am	THURSDAY Discussion/Lecture 9:30-1045 am
1	17 Jan <ul style="list-style-type: none"> • Syllabus discussion, intro • Reading Assignment: 1. “UAV worldwide roundup—2005,” Aerospace America 	19 Jan <ul style="list-style-type: none"> • Argrow AGU presentation • Reading Assignment: 1. “Assessment of the impact of low-cost robotic aircraft to national security”
2	24 Jan <ul style="list-style-type: none"> • Discussion • Reading Assignment: 1. “Unmanned Aircraft Systems Roadmap 2005-2030”, Sects. 1.0-4.0 	26 Jan <ul style="list-style-type: none"> • Quiz 1 • J-UCAS video • Reading Assignment “Unmanned Aircraft Systems Roadmap 2005-2030”, Appendices C, D
3	30 Jan <ul style="list-style-type: none"> • J-UCAS video • Reading Assignment “Unmanned Aircraft Systems Roadmap 2005-2030”, Appendices F, H 	2 Feb NO CLASS, ARGROW TRAVEL
4	7 Feb <ul style="list-style-type: none"> • Quiz 2 • Reading Assignment “Unmanned Aircraft Systems Roadmap 2005-2030”, Appendices F, H 	9 Feb <ul style="list-style-type: none"> • Reading Assignment 1. “Unmanned Aircraft Systems Roadmap 2005-2030”, Appendices F, H 2. “Airspace for Everyone,” http://www.aopa.org/asf/publications/sa02.pdf
5	14 Feb <ul style="list-style-type: none"> • Hwk #2 Due • Reading Assignment: “Safety Considerations for Operation of Different Classes of UAVs in the NAS” 	16 Feb <ul style="list-style-type: none"> • Unit Quiz and Discussion: “Safety Considerations for Operation of Different Classes of UAVs in the NAS” •
6	21 Feb <ul style="list-style-type: none"> • Due: Summary of “Safety Considerations for Operation of Different Classes of UAVs in the NAS” • Discussion: “Authorizing Operations in the National Airspace System (NAS)” • Reading Assignment: “Safety Considerations for Operation of Different Classes of Unmanned Aerial Vehicles in the National Airspace System,” Chap. 3 	23 Feb <ul style="list-style-type: none"> • Unit Quiz and Discussion: “Safety Considerations for Operation of Different Classes of Unmanned Aerial Vehicles in the National Airspace System,” Chap. 3 • Reading Assignment: “Test and Integration of a See and Avoid System”
7	28 Feb <ul style="list-style-type: none"> • Due: Summary of “Test and Integration of a See and Avoid System” • Unit Quiz and Discussion: “Test and Integration of a See and Avoid System” • 	2 Mar Argrow Travel: No Class <ul style="list-style-type: none"> • Reading Assignment: Summary of “Development of a Sense and Avoid System” • Reading Assignment: Summary of “Nighttime UAV Vineyard Mission: Challenges of See-and-Avoid in the NAS” • Assigned Hwk #3: Collision Avoidance

8	<p>7 Mar</p> <ul style="list-style-type: none"> • Due: Summary of “Development of a Sense and Avoid System” • Due: Summary of “Nighttime UAV Vineyard Mission: Challenges of See-and-Avoid in the NAS” • Reading Assignment: “Unmanned Aviation: A Brief History of Unmanned Aerial Vehicles” 	<p>9 Mar</p> <ul style="list-style-type: none"> • Due Hwk #3: Collision Avoidance • Unit Quiz and Discussion: “Unmanned Aviation: A Brief History of Unmanned Aerial Vehicles” • Reading Assignment: “Flight Path Deconfliction of Autonomous UAVs”
9	<p>14 Mar</p> <ul style="list-style-type: none"> • Discussion: “Flight Path Deconfliction of Autonomous UAVs” • Project 1 Discussion 	<p>16 Mar</p> <ul style="list-style-type: none"> • Project 1 Assigned • Reading Assignment: “NASA ERAST Non-Cooperative DSA Flight Test”
10	<p>21 Mar</p> <ul style="list-style-type: none"> • Exam 1 distributed • Project 1 comments 	<p>23 Mar</p> <p>Exam 1 due</p>
11	<p>28 Mar</p> <p>Spring Break</p>	<p>30 Mar</p> <p>Spring Break</p>
12	<p>4 Apr</p> <p>Unit Quiz an Discussion: “NASA ERAST Non-Cooperative DSA Flight Test”</p>	<p>6 Apr</p> <p>Project 1 Due</p>
13	<p>11 Apr</p>	<p>13 Apr</p>
14	<p>18 Apr</p>	<p>20 Apr</p>
15	<p>25 Apr</p>	<p>27 Apr</p> <ul style="list-style-type: none"> • Debate 1
16	<p>2 May</p> <ul style="list-style-type: none"> • Draft of Position Paper Due • Debate 1 discussion, Debate 2 prep 	<p>5 May</p> <ul style="list-style-type: none"> • Debate 2 • Exam 2 Distributed
17	<p>9 May</p> <ul style="list-style-type: none"> • Final draft of position paper due • Exam 2 due 	