

**BIG BEND  
UNMANNED SYSTEMS**



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**New Opportunities in  
Aviation (NOA) Program**

**A Title V UAS Grant**

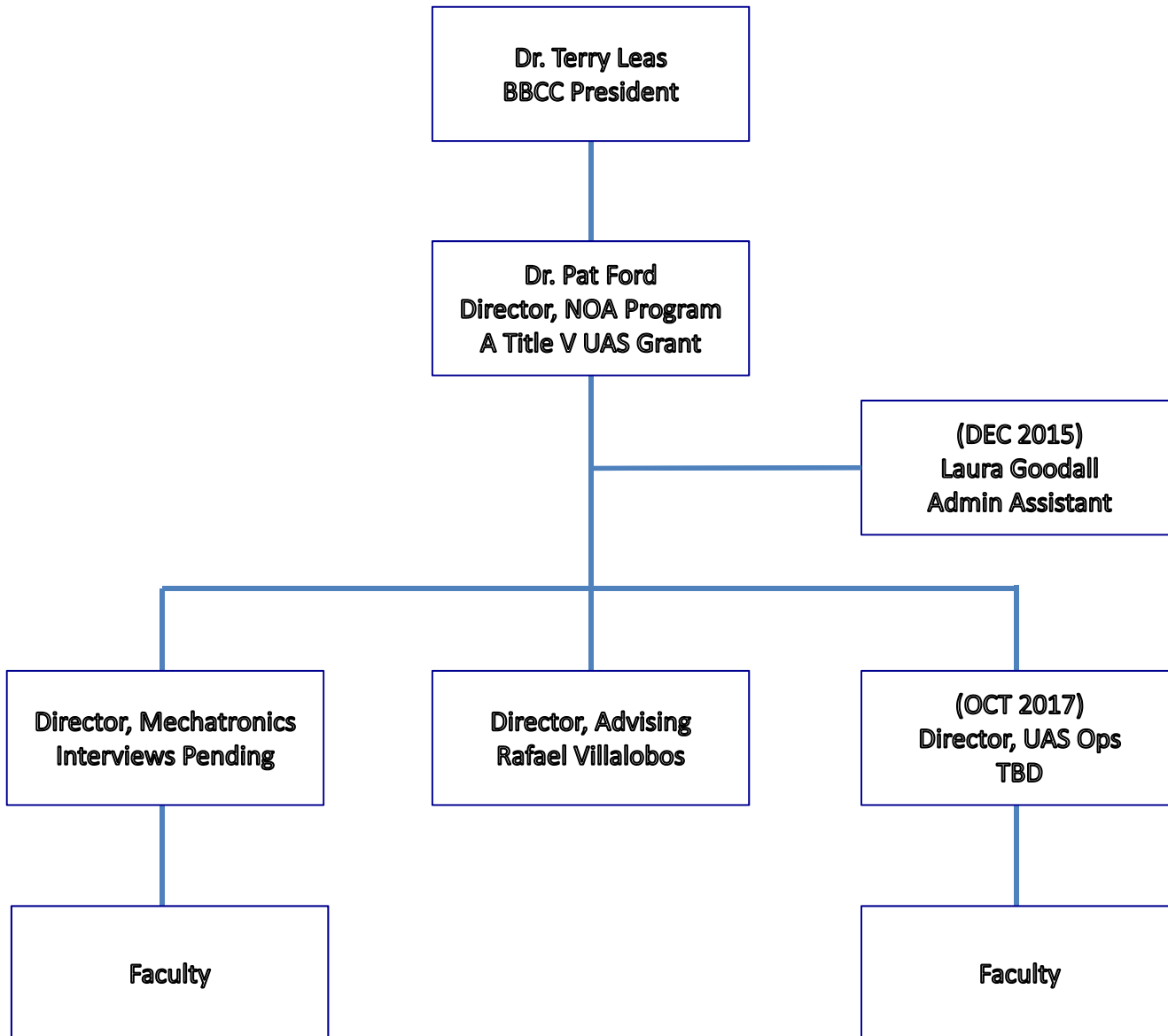
**Update Briefing  
8 June 2016**



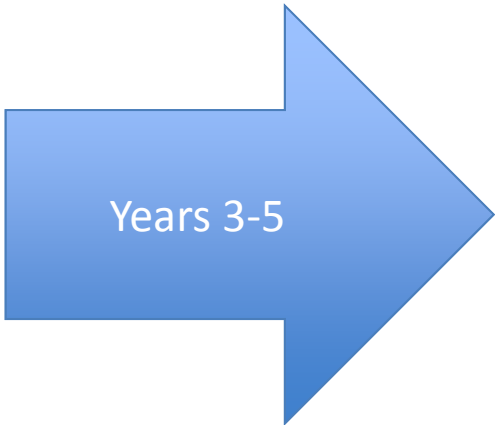
**The first choice for aviation training in the Northwest**



**Manned and Unmanned Aircraft Systems  
Pilot / Technician / Maintenance / Sensor Operator**



<b>ROBOTICS (UNMANNED AIRCRAFT TECH. MGMT.)</b>	
<b>Core Certificate Requirements</b>	
<b>(NEW courses: 13 credit hours – Develop Y1, Pilot Y2)</b>	
134	Robotics Software Languages 1 (5 cr. hrs.)
101	Intro to Geographic Information System (3 cr. hrs.)
136	Programming for GIS (1 cr. hr.)
232	Data Collection & Application (3 cr. hrs.)
237	Advanced Programming for GIS (1 cr. hr.)
<b>Core AAS Requirements</b>	
<b>(NEW courses: 18 credit hours – Develop Y2, Pilot Y3)</b>	
234	Adv. Robotics Software Lang. 2 (5 cr. hrs.)
255	Intro to ArcGIS 1 (1 cr. hr.)
281	ArcGIS I (3 cr. hrs.)
282	ArcGIS II (3 cr. hrs.)
286	Remote Sensing (3 cr. hrs.)
287	Long-Range Navigation (3 cr. hrs.)



<b>UNMANNED AERIAL SYSTEMS OPERATIONS</b>	
<b>Core Certificate Requirements</b>	
<b>(NEW courses: 17 credit hours – Develop Y3, Pilot Y4)</b>	
UAS 111	Intro to Unmanned Aircraft Systems (UAS) (1 cr. hr.)
UAS 112	UAS Ground School 1 (5 cr. hrs.)
UAS 115	UAS Ground School 2 (5 cr. hrs.)
UAS 141	Flight Lab Stage 1 (3 cr. hrs.)
UAS 142	Flight Lab Stage 2 (3 cr. hrs.)
<b>Core AAS Requirements</b>	
<b>(NEW courses: 25 credit hours – Develop Y4, Pilot Y5)</b>	
UAS 221	UAS Operations (5 cr. hrs.)
UAS 222	UAS Command, Control & Comm. Systems (5 cr. hrs.)
UAS 226	UAS Remote Sensing Systems (5 cr. hrs.)
UAS 208	UAS Mission Planning (5 cr. hrs.)
UAS 210	UAS IAD (5 cr. hrs.)



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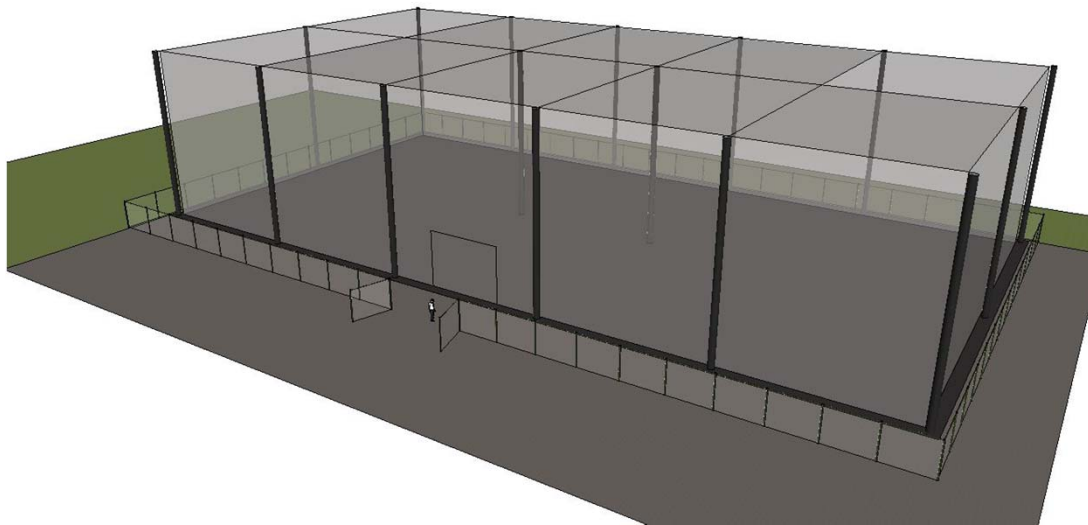


# BBCC Enclosed UAS Flight Lab

Target Goal: August 2016

Permitted/Enclosed UAS Flight Lab Area  
120' W x 210' L x 50' H

Outer Chain Link Security Fence  
12' Buffer/Student/Guest Observation Area



- Gates to move sample crops in/out of facility (remote sensor training)
- Simulated power line infrastructure (for inspection training)
- Mist/wind generators (fans) to simulate inclement weather conditions
- Building relationships with other colleges and universities (WSU, ERAU, etc.)
- Professional training seminars

## BBCC UAS Fleet



12

Deek Q500 Typhoon  
Quadrotors



1

Precision Hawk DJI  
Quadrotor  
(contract pending)



4

Precision Hawk Lancaster  
Fixed Wing  
(contract pending)

- Q500 for basic flight training within the Enclosed UAS Flight Lab
- Precision Hawk DGI for advanced flight training within the Enclosed UAS Flight Lab and for real world sensor/flight training
- Precision Hawk Lancaster for advanced real world sensor/flight training

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**Conclusions...**