2015 Helicopter/and UAS Program

www.ctspacegrant.org

Date: June 14-19, 2015
Location: Central Connecticut State University
New Britain, CT
http://www.facebook.com/pages/Space-Grant-Helicopter-Workshop
for pictures from 2010-14

Sunday/ Arrive
RC Aircraft Flight (Students will fly RC aircraft, indoors/outdoors)

Monday
Principles of Helicopter Flight I, Helicopter Aerodynamics
Principles of Unmanned Aircraft I
VTOL Aircraft Design Construction Techniques
(Student teams will be instructed on the design and building of RC VTOL aircraft)
Helicopter Flight over Connecticut (Students will fly in a S300 helicopter)

Tuesday
Wind Tunnel Testing Methods, RC Aircraft, UAV Technology Over View
Principles of Helicopter Flight II
Principles of Unmanned Aircraft II
(Students will build a VTOL Remote Control Aircraft)

Wednesday
Multicopter UAV Programming
Vertical Take Off and Landing, RC VTOL Design and Construction
Sikorsky Aircraft Tour (Blackhawk Mfg)

Thursday
Multicopter UAV Instruction and Demonstration
(Students program and fly multicopters)
Helicopter Hover Testing (Quad Rotor and conventional scale helicopters will be tested)
(Students will run tests using a hover test fixture for scale helicopters)
KAMAN Aerospace Tour (K-MAX and SH-2G Mfg)

Friday
Aerospace Careers (Students will receive an overview of NASA related careers)
RC Aircraft Flight VTOL Competition (Students will fly their VTOL aircraft and UAV’s)

Selected Students Will Receive
• Helicopter experience T-Shirt
• Helicopter flight
• Tour of KAMAN Aerospace, Sikorsky Aircraft, and New England Air Museum
• Practical knowledge of fixed and rotary wing engineering and design, UAS Technology
• Room & board, transportation, and tuition
• Classroom instruction on aerodynamics, rotorcraft principles, wind tunnel testing, control theory, VTOL RC aircraft, etc.

Application Requirements
• Must be age 18 or over
• Must have completed freshman year
• Must be interested in aerospace
• Must be a US Citizen
• CT Affiliate Students apply here: www.ctspacegrant.org

Non-CT Affiliate students must apply for a travel grant with your state space grant to cover transportation and registration fee:
• Program fee for Non-CT Affiliate students is $1300 (includes room/board)
• Please also complete CT application/ forms