Undergraduate Student Instrumentation Project

This course is an outcome for the 2015 NASA Science Mission Directorate (SMD) Undergraduate Student Instrument Project (USIP) Student Flight Research Opportunity competition that encouraged U.S. universities to offer undergraduates courses or clubs that build an Earth or space science payload that could fly on a suborbital vehicle, such as a sounding rocket, balloon, aircraft, or commercial suborbital reusable launch vehicles. The student team will be multidisciplinary and include undergraduate students from all disciplines including engineering, science, humanities, business, art, and other fields. The chosen experiments are planned to be flown starting March 2025.

The College of Natural Sciences and Mathematics, the Cullen College of Engineering, the School of Technology, and the Honors College at UH will be offering a two year program for credit to design and build balloon borne spacecraft to study the aurora borealis and the upper atmosphere using multiple payloads and hand launched balloons. A select number of students will be able to travel to Alaska to launch the experiments. In 2023 and 2024, experiments will also be conducted in Texas to study the solar eclipses that will traverse Texas on 14 October 2023 and 8 April 2024. The ground tracks of these two eclipses cross in Vanderpool, Texas. These experiments will be part of the Nationwide Eclipse Balloon Program (NEBP) which begins in January 2023. Additional information or answers to questions can be obtained by sending email to one of the contacts below:

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PERSONAL INFORMATION

LAST NAME: FIRST NAME:

STREET ADDRESS:

CITY:

STATE: ZIP CODE:

EMAIL ADDRESS: PHONE NUMBER:

DATE OF BIRTH:

EDUCATION

Tell us your major and your current academic standing

NAME OF COLLEGE:

MAJOR:

HOURS COMPLETED:

GRADUATION DATE: PSID:

G.P.A.:

AREA OF INTEREST:

BRIEF DESCRIPTION OF YOUR DESIRED ROLE:

Please return completed form to : eabering@uh.edu