

**OFFICE OF ACADEMIC AFFAIRS**  
**COURSE APPROVAL FORM**  
**NEW COURSE**



College: Science Prefix/Subject Code: SCI Course Number: 199

Banner Title: Intro to Phys. Science Res. Credit Hours: 3.0 First Offered: Fall 2017  
 (32 Characters)

Full Course Name: Introduction to Physical Science and Research Methods

Instructional Method: Online  Hybrid  Classroom

Cross-listed: \_\_\_\_\_

*Cross-listed courses must provide both graduate and undergraduate syllabi.*

Prerequisites: \_\_\_\_\_

Min. Grade: \_\_\_\_\_

Catalog Description: (300 Characters)

Co-requisites: \_\_\_\_\_

Understand the segmentation of research through concepts such as heat transfer, Newtonian mechanics, chemical propulsion, computer modeling and simulation, biology in space, research ethics, technical writing, and data analysis. Students will be equipped with a skills critical to contributing to scientific research projects.

Prerequisites with Concurrency: \_\_\_\_\_

Restrictions: Students who have completed Space Camp.  
*Class, Level, Department, Program, College, etc.*

Grading System: A-F  S-U

Does this course involve multiple academic units in the originating college? Yes  No   
*If so, the chair of each academic unit must sign this form.*

Is this course to be added to Charger Foundations? Yes  No   
*If so, the Charger Foundations committee must review this form.*

Does this course involve academic units external to the originating college? Yes  No   
*If so, deans of all colleges involved must sign this form.*

Is this a Laboratory course (stand alone or combined)? Yes  No   
*If yes, indicate the number of credit hours for the lab and the number of contact hours.*

Lab Hours: \_\_\_\_\_ Contact Hours: \_\_\_\_\_ Total Credit Hours: \_\_\_\_\_

Indicate type and hours for studio, clinical, internship, and study abroad courses.

- Studio Course    Studio Hours: \_\_\_\_\_    Contact Hours: \_\_\_\_\_    Total Credit Hours: \_\_\_\_\_
- Clinical Course    Clinical Hours: \_\_\_\_\_    Contact Hours: \_\_\_\_\_    Total Credit Hours: \_\_\_\_\_
- Internship    Internship Hours: \_\_\_\_\_    Contact Hours: \_\_\_\_\_    Total Credit Hours: \_\_\_\_\_
- Study Abroad    Abroad Hours: \_\_\_\_\_    Contact Hours: \_\_\_\_\_    Total Credit Hours: \_\_\_\_\_

**Compare with existing catalog offerings, with justification if apparent overlap:**

This course is designed to introduce students to different disciplines in the College of Science. The course provides a broad overview of science and will not overlap with Introduction Courses offered by different departments. Course enrollment will be restricted to students who have completed Space Academy II at the Space and Rocket Center.

**Discuss demonstrated value of course. Please justify why this new course is needed.**

The new course allows students who are interested in the College of Science to gain an introduction to the disciplines of Atmospheric Science, Biology, Chemistry, Computer Science, Mathematics, and Physics. The course will establish a relationship between the various disciplines by utilizing the theme of aviation and aerospace. The course will introduce students to the disciplines, research ethics and basic research principles. I have been developing the course with distance education. The course is a mechanism to allow space camp students to take a course at UAH and receive a broad introduction to the college of science. It is not designed to fit into a particular program of study. It targets high school students and international students who want to take a course and receive university credit. Course enrollment will be restricted to students who have completed Space Academy II at the Space and Rocket Center.

**Will this course be required? Explain.**

No.

**Is this course part of a program core? Explain.**

No.

**Is this course part of a new major or minor? Explain.**

No.


**Textbooks:** None. Open Educational Resources will be used.

**Intended Instructors:** Emanuel Waddell


**Implications for faculty workload:** \_\_\_\_\_

**Implications for facilities:** On-line.

**A detailed syllabus must be attached giving an overview of topics covered, course goals and structure, grading system, and policies.**

**Department Chair:**   
Digitally signed by Emanuel Waddell  
DN: cn=Emanuel Waddell, ou=University of  
Alabama in Huntsville, ou=College of  
Science, email=adeanocs@uah.edu, c=US  
Date: 2016.10.26 17:18:22 -0500

**Grad. Council:** \_\_\_\_\_

**College Dean:**   
Digitally signed by Emanuel Waddell  
DN: cn=Emanuel Waddell, ou=University of  
Alabama in Huntsville, ou=College of  
Science, email=adeanocs@uah.edu, c=US  
Date: 2016.10.26 17:18:22 -0500

**Graduate Dean:** \_\_\_\_\_

**College Curriculum Committee:**   
Digitally signed by Emanuel Waddell  
DN: cn=Emanuel Waddell, ou=University of  
Alabama in Huntsville, ou=College of  
Science, email=adeanocs@uah.edu, c=US  
Date: 2016.10.26 17:18:46 -0500

**Undergrad Curriculum Cmte:** Christine Sears  
Digitally signed by Christine  
Sears  
DN: cn=Christine Sears,  
ou=CAAS, ou=UAH,  
email=cs003@uah.edu, c=US  
Date: 2017.01.12 09:11:15  
-0500

**Charger Foundations:** \_\_\_\_\_

**Provost:** \_\_\_\_\_

**Acknowledgements from other units:**

**Department Chair:** \_\_\_\_\_

**College Dean:** \_\_\_\_\_