REU: Remote Sensing of Land-Atmosphere Systems

UAH Atmospheric & Earth Sciences

PROGRAM HANDBOOK

Summer 2019

Support provided under NSF-AGS grant #1757892.
Table of Contents

CONTACTS ................................................................. 2
SCHEDULE (PRELIMINARY) ........................................ 4
EXPECTATIONS ............................................................ 6
BEFORE ARRIVAL ........................................................ 7
HOUSING ................................................................. 8
WHAT TO BRING ........................................................ 9
PARKING & TRANSPORTATION .................................... 10
HUNTSVILLE THINGS TO DO ...................................... 11
Contacts

Emergency: On-campus: 256.824.6911 | Off-campus: 911
Campus police (non-emergency): 256.722.7100
UAH Escort: 256.824.6596
Student Health Clinic: 256.824.6775, Wilson Hall 323
Local Hospitals:
  - Huntsville Hospital-Huntsville: 256.265.1000
  - Crestwood Medical Center: 256.882.3100

Robert Griffin, REU Co-director
Email: robert.griffin@uah.edu | Phone: 256.961.7783 | Office: NSSTC 3049

Ryan Wade, REU Co-director
Email: ryan.wade@uah.edu | Phone: 256.824.4026 | Office: SWIRLL 120

Lori Wheeler, Program Coordinator
Email: lori.wheeler@uah.edu | Phone: 256.961.7792 | Office: NSSTC 3089

Peggy Kauffman, Coordinator
Email: peggy.kauffman@uah.edu | Phone: 256.824.4025 | Office: SWIRLL 121

Vivian Brasfield, Program Assistant
Email: vlb0010@uah.edu | Office: NSSTC 3088

David Cook, Director of Undergraduate Research (Summer Community of Scholars)
Email: david.cook@uah.edu | Phone: 256.824.5705 | Office: SSB 303B

Ryan Driver, IT
Email: it@nsstc.uah.edu | Phone: 256.961.7538 | Office: NSSTC 3079

Student Resources at UAH:
Resources for sexual discrimination/assault: https://www.uah.edu/health-and-wellness/sexual-harassment-sexual-violence-resources
Counseling services: https://www.uah.edu/health-and-wellness/counseling-center

UAlert Emergency Notification System: UAlert is The University of Alabama in Huntsville (UAH) emergency notification system. UAlert is a comprehensive communications solution that allows UAH to quickly disseminate an urgent message through multiple communication methods including: Voice messages to cell, home and office phones, Text messages to cell phones, Email messages (ualert.uah.edu)

All UAH building occupants are encouraged to familiarize themselves with the University’s procedures for Fire and Building Evacuation. These procedures are
available in the multi-colored Emergency Procedures Handbook, which should be available in each campus office. Additional copies may be requested from the UAH Police Department or the Office of Environmental Health and Safety. You may also view the handbook online at: http://emergency.uah.edu, or download the Emergency Procedures Handbook.
# Schedule (preliminary)

<table>
<thead>
<tr>
<th>Week</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
<th>Sat/Sun</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 1</td>
<td>May 27</td>
<td>28</td>
<td>29</td>
<td>30</td>
<td>31</td>
<td>June 1 / 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lunch: REU Students and Project Directors, Mentors @ NSSTC</td>
<td>Afternoon: NSSTC, SWRLL, &amp; UAH campus tours</td>
<td>Afternoon: Meetings with Project Mentors</td>
<td>Afternoon: REU Group Activity</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Memorial Day Holiday (Closes:дрит May 27-27)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Week 2</td>
<td>June 3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8 / 9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9 am - noon: Training Series (Geographic Information Systems (NSSTC 4065 - Ahita Flores))</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Eclipse - 7:30pm: Group Dinner</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>5:30pm - 7:45pm: Huntsville AMRSWA Chapter Meeting - Guest Speaker Ryan Wade - UAH Observations during the 21 August 2017 Solar Eclipse</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Week 3</td>
<td>June 10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15 / 16</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12</td>
<td>2 pm - 3 pm: Weekly Meeting / Check-In</td>
<td>2 pm - 4:30pm: Professional Development GIS Tour</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>12</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Week 4</td>
<td>June 17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
<td>22 / 23</td>
</tr>
<tr>
<td></td>
<td></td>
<td>18</td>
<td>2 pm - 3 pm: Weekly Meeting / Check-In</td>
<td>10:00am - 11:00am: Tour the NASA Huntsville Operations Support Center for International Space Station Launch</td>
<td>Afternoon: REU Group Activity</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Week 5</td>
<td>June 24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
<td>29 / 30</td>
</tr>
<tr>
<td></td>
<td></td>
<td>26</td>
<td>2 pm - 3 pm: Weekly Meeting / Check-In</td>
<td>2 pm - 4:30pm: Professional Development Session (Black Book)</td>
<td>Afternoon: Mathematics Check-in and Group Activity</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Week</td>
<td>Mon</td>
<td>Tue</td>
<td>Wed</td>
<td>Thu</td>
<td>Fri</td>
<td>Sat/Sun</td>
</tr>
<tr>
<td>------</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>---------</td>
</tr>
<tr>
<td>Week 6</td>
<td>July 1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6 / 7</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2pm - 3pm: Weekly Meeting / Check-in</td>
<td></td>
<td>July 4th Holiday (no planned activities)</td>
<td>Holiday (no planned activities)</td>
</tr>
<tr>
<td>Week 7</td>
<td>July 8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>12 / 14</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2pm - 3pm: Weekly Meeting / Check-in</td>
<td></td>
<td>9-10am: Professional Development Session, Graduate Program &amp; Scholarships (Dr. Robert Lindsay, Dr. Drew Buchanan, Dr. William Wilkinson), SST #159</td>
<td>Afternoon: Seminar Speaker (Lorraine - Stephanie Wiggins, NASA Post Doctoral Program)</td>
</tr>
<tr>
<td>Week 8</td>
<td>July 15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20 / 21</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2pm - 3pm: Weekly Meeting / Check-in</td>
<td></td>
<td>9-10am: KU Professional Development Session, Professional Paper (Robert Griffin, June Week)</td>
<td>Afternoon: Seminar Speaker (Tentative - John Hopkins - NOAA UC Program)</td>
</tr>
<tr>
<td>Week 9</td>
<td>July 22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27 / 28</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2pm - 3pm: Weekly Meeting / Check-in</td>
<td></td>
<td>9-10am: Professional Development Session, Information Literacy (Selena Brother, Research &amp; Instructional Services Librarian, UAB Library), Location TBD</td>
<td></td>
</tr>
<tr>
<td>Week 10</td>
<td>July 29</td>
<td>30</td>
<td>31</td>
<td>August 1</td>
<td>2</td>
<td>3 / 4</td>
</tr>
<tr>
<td></td>
<td>Afternoon: Practice talk</td>
<td>All Day: Final Project Poster Presentations</td>
<td>9-10am: KU Professional Development/Clinic Final</td>
<td>Morning: Post-SMU Survey with Courtney Stokes</td>
<td>Afternoon: KU Group Activity - End of Term Dinner</td>
<td>Students Depart</td>
</tr>
</tbody>
</table>
Expectations

• Arrive prior to May 28, 2019 and check into dorms.
• Be present for work 40 hrs/wk minimum for the duration of the program (discuss with us prior to missing work for any health or other reasons during the summer)
• Bring a positive, flexible, and inquisitive attitude to the program.
• Check your email routinely! That will be our primary means of communication in sending you documents, forms, or other official notices.
• Keep open communication with and be responsive to REU directors, mentors, and mentor teams (as appropriate).
• Make the REU directors (Rob and Ryan) aware of any issues as they arise, don’t wait until the end of the summer.
• Wear appropriate casual business attire in a university environment.
• Treat all other interns with respect.
• Participate in all Summer Community of Scholars weekly events/lectures and all required events as part of the REU program.
• Participate in other events as desired, with a flexible attitude (things don’t always go 100% as planned)
• Complete pre- and post- program surveys online and meet with the program evaluator mid-summer.
• Prepare a 1-page project summary by project mid-term: Fri, June 28th
• Present a research poster at the closeout session on Wed, July 31st.
• Follow all dormitory check out procedures correctly.
• Work with mentor to attend and/or present at a professional conference in the year following the summer REU program.
• Note that payments (3 checks over the course of the summer) are contingent upon your active participation and meeting all REU program requirements and UAH regulations.
Before Arrival

Prior to arrival we ask you to complete a number of forms:

1) Register as a non-degree seeking student at UAH. This process is free to you but necessary to get you an “A number” (student ID number), which is necessary for you to access our building, the library, and the fitness center.

2) Sign and initial the REU Commitment letter acknowledging your acceptance of our offer for the summer program.

3) Dorm application (if you would like to take advantage of the free housing in the dorms).

4) Send in your personal information (for us to set up tours on NASA Marshall Space Flight Center).

5) Complete the background check initiation form, such that UAH can complete a background check prior to your acceptance into the program.

6) Sign and initial the Release From Liability / Waiver form, including a witness to your signature.
Housing

Complementary housing is provided in the dormitories on the UAH campus (this year it will be Frank Franz Hall). This is about a 20 minute walk from the NSSTC/SWIRLL, or a 4 minute car drive. See map below. (Your parking pass will work at both the dorm parking lots and the NSSTC/SWIRLL parking lots).

We will be grouping all interns located together in the same dorms and in the same rooms. This includes REU interns for this program, REU interns from other programs at UAH, NASA interns, and others. We hope you see this as a big cohort and take the opportunity reach out and interact with interns from other programs.

The dormitories where you will be staying is Frank Franz Hall, which consists of four-person suites in which each student will have individual bedroom furnished with a bed, desk, and chest. Each suite has a shared common area and two bathrooms (one bathroom per two students). Common areas have a microwave, refrigerator, sink, a sofa, two arm chairs, a table and four chairs.

If you want to take advantage of the free summer housing you are required to sign up prior to arrival in Huntsville (see previous section on pre-arrival things to do). And you will sign a contract with UAH Housing directly, outlining the expectations and rules they have while you are a resident in the dorms. It is a requirement of this REU program that you follow these rules.

If you have any questions about what’s required or expected of you in UAH housing, please reach out to them directly (https://www.uah.edu/housing).
What to Bring

In terms of what to wear, we recommend a mixture of business casual and summertime casual attire. Keep in mind that you will be alternating between a more casual college setting and a professional environment at times with group meetings and professional development activities. We do strongly recommend at least one business professional outfit for the close-out presentations, and when we have NSF / NASA center directors visit.

Some of you will be working in labs so it’s recommended you wear close-toed shoes in that environment.

Also note that we will be going out as a group for at least one “field deployment” and probably exploring up on Monte Sano mountain (easy hike/walk) during the summer. So bring appropriate clothing for that.

Additionally, we are asking each student to try to bring a t-shirt of your home institution for a group photo. We’d love for everyone to be wearing the colors / name of your home college in a group photo for the REU program.

Otherwise, you would want to bring pretty much the standard stuff (including any medicine you require, etc) for your stay in the dorms.

A laptop is not required but you may find it helpful. We are providing workstations to all participants, but if you have a personal laptop (mac or pc) and want to bring it, you may find it useful.

Transportation: A car is not necessary but you may find it useful. Same with a bicycle (there are bike racks all over campus).
Parking & Transportation

Complimentary parking is provided at both the dormitories and at the NSSTC/SWIRLL buildings. Please feel free to bring a vehicle if you see fit, though note that it is not necessary. See parking maps below for both buildings (parking in red dashed-outlined areas).

If you intend to explore the area around Huntsville, we suggest you bring your own vehicle. Though there are services available – for example, if you want to go kayaking, canoeing, tubing, etc.

The City of Huntsville operates a bus service and handi-ride, which are good, but sporadic, 7 days a week. See: https://www.huntsvilleal.gov/residents/streets/public-transportation/.

Ride services (Lyft and Uber) are also available throughout Huntsville. The Huntsville airport is also easily accessible from UAH through these services, or taxis.
Huntsville things to do

https://www.huntsville.org/things-to-do/


http://ihearthsv.com/

http://www.artshuntsville.org/

https://www.landtrustnal.org/

http://www.artshuntsville.org/concerts-in-the-park/

https://www.uah.edu/about