

## Teaching Workshop Schedule

### Monday (6/16)

Main activities:

- 1) Sizes and distances in Astronomy
- 2) Light, spectra, chemical composition

*9:30 – 10:00 (PS 135)*

Introductions and pre-quiz

*10:00 – 11:00 (PS 135)*

Introduction to light, emission line activity (Leader: Andria)

(Note: from 10:10 – 11:00, some teachers will go see emission line activity or distances activity in action with Astrocamp)

*11:00 – 11:20 (PS 135)*

Size scales (Leaders: Mike, Shannon)

*11:30 - 12:20 (Washakie)*

Lunch

*12:30 – 1:30 (PS 133)*

Mixing light (Leader: Debbie)

*1:30 – 3:15 (PS 135, roof)*

Parallax activity (Leaders: Mike, Shannon)

*3:15 - 3:45 (PS 135)*

Post quiz, consent forms

*3:45- 4:30 (PS 135)*

Professor Adam Myers — his path to becoming a scientist, his role as a scientist, and what teachers can do to help prepare students for college science classes

*5:00 - 6:00 (Washakie)*

Dinner

*9:30 – 10:30 (Courtyard, roof)*

Observing with Astrocamp

Homework: How would you modify the activities for your classroom? What local science standards do they cover? **Create a Galaxy Zoo account for Tuesday; give Mike the email you use.**

## Tuesday (6/17)

Main activities

- 1) Galaxy Zoo
- 2) Zooniverse

*9:30 – 10:00 (PS 133)*

HW discussion, pre-quiz.

*10:00 – 11:20 (PS 133)*

Quasars and big datasets, introduction to Zooniverse (Leader: Andria)

*11:30 – 12:20 (Washakie)*

Lunch

*12:30 – 1:30 (PS 133)*

Galaxy Zoo (Leader: Mike)

*1:30 – 3:00 (PS 133)*

Creating activities with various Zooniverse topics (Leaders: all)

*3:00 – 3:45 (PS 133)*

Presentation of lesson plans developed, post-quiz

*3:45 – 4:30 (PS 133)*

Debbie French — ways to bring real research into the classroom

*5:00 – 6:00 (Washakie)*

Dinner

*7:00-8:00 (Downtown)*

An informal time for discussion at Altitude Brewery.

Homework: How would you modify the activities for your classroom? What local science standards do they cover? **Debbie's (online) survey questions**

## Wednesday (6/18)

Main activities:

- 1) Traveling planetarium
- 2) Thermal energy, planetary geology and Exoplanets

*9:30 - 10:00 (PS 135)*

HW discussion, pre-quiz

*10:00 - 11:20 (PS 135)*

Introduction to the sky, traveling planetarium show (Leader: Shannon)

*11:30 - 12:20 (Washakie)*

Lunch

*12:30 - 1:00 (PS 135)*

Thermoelectric activity (Leader: Mike)

*1:00 - 2:00 (PS 135)*

Planetary Geology (Leader: Mike)

*2:00 - 3:30 (PS 135)*

Exoplanets (Leader: Shannon)

*3:30 - 3:45 (PS 135)*

Post quiz, questions/discussion

*3:45 - 4:30 (PS 135)*

Panel discussion with current UW astronomy REU students

*5:00 - 6:00 (Washakie)*

Dinner

Homework: How would you modify the activities for your classroom? What local science standards do they cover?