



# Astronomy Camp

**Sunday, July 12**

|               |   |
|---------------|---|
| 2:00-4:00 pm  | Campers Arrive and Check-in<br><i>Neihardt Residence Hall</i>   |
| 4:00-5:00 pm  | Camp Orientation – Introduction, Schedule, Regulations<br><i>Brace 201</i>                              |
| 5:30 pm       | Dining hall open for dinner<br><i>Cather-Pound-Neihardt Dining Hall</i>                                 |
| 7:00-11:00 pm | Constellations Planetarium show and Student Observatory (if clear)<br><i>Morill Hall/Parking Garage</i> |

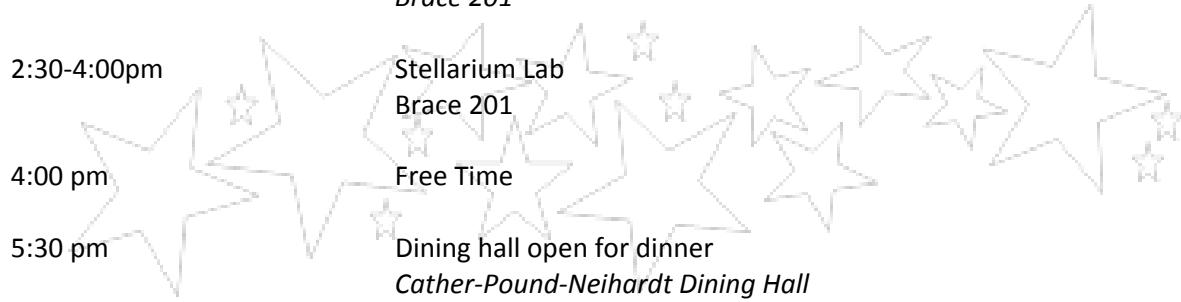
**Monday, July 13**

|                    |  |
|--------------------|--|
| 7:30 am            | Dining hall open for breakfast<br><i>Cather-Pound-Neihardt Dining Hall</i> |
| 9:00-11:00 am      | Lecture #1: Scale<br><i>Brace 201</i>                                      |
| 11:00 am -12:00 pm | Lab #1: Building a Celestial Sphere<br><i>Brace 201</i>                    |
| 12:00 -1:00 pm     | Lunch<br><i>Cather-Pound-Neihardt Dining Hall</i>                          |
| 1:00-4:00 pm       | Lecture #2: Celestial Sphere<br><i>Brace 201</i>                           |
| 4:00 pm            | Free Time  |
| 5:30 pm            | Dining hall open for dinner<br><i>Cather-Pound-Neihardt Dining Hall</i>    |
| 7:30-8:15 pm       | Meet the Scientist: Christian Binek<br><i>Brace 201</i>                    |

8:30 pm Observing Groups/Full Dome Show  
*Brace 201/Morrill Hall*

**Tuesday, July 14**

|                   |  |
|-------------------|--|
| 7:30 am           | Dining hall open for breakfast<br><i>Cather-Pound-Neihardt Dining Hall</i> |
| 9:00-11:00 am     | Lecture #3: Horizon Coordinate System<br><i>Brace 201</i>                  |
| 11:00 am-12:00 pm | Lab #2: Building an Altitude Marker<br><i>Brace 201</i>                    |
| 12:00-1:00 pm     | Lunch<br><i>Cather-Pound-Neihardt Dining Hall</i>                          |
| 1:00-2:15pm       | Lecture #4: Paths of the Sun<br><i>Brace 201</i>                           |
| 2:30-4:00pm       | Stellarium Lab<br><i>Brace 201</i>   |
| 4:00 pm           | Free Time  |
| 5:30 pm           | Dining hall open for dinner<br><i>Cather-Pound-Neihardt Dining Hall</i>    |
| 7:30-8:15 pm      | Meet the Scientist: Dan Claes<br><i>Brace 201</i>                          |
| 8:30 pm           | Observing Groups/Lab Activity (Bending<br><i>Brace 201</i>                 |



**Wednesday, July 15**

|                   |  |
|-------------------|--|
| 7:30 am           | Dining hall open for breakfast<br><i>Cather-Pound-Neihardt Dining Hall</i> |
| 9:00-10:30 am     | Lecture #5: Copernicus, Kepler, Tycho Brahe Film<br><i>Brace 201</i>       |
| 10:30 am-12:00 pm | Lab #3: NAAP - Solar System Models<br><i>Brace 201</i>                     |

|               |   |
|---------------|---|
| 12:00-1:00 pm | Lunch<br><i>Cather-Pound-Neihardt Dining Hall</i>                       |
| 1:00-2:00 pm  | Planetarium – Coordinates and Motion<br><i>Morrill Hall</i>             |
| 2:00-3:30 pm  | Computer Lab #1: SS Models<br><i>Brace 201</i>                          |
| 3:30 pm       | Free time   |
| 5:30 pm       | Dining hall open for dinner<br><i>Cather-Pound-Neihardt Dining Hall</i> |
| 7:30-8:15 pm  | Meet the Scientist<br><i>Brace 201</i>                                  |
| 8:30 pm       | Observing Groups/Lab Activity (Geometrical Optics)                      |

## **Thursday, July 16**

|                   |  |
|-------------------|--|
| 7:30 am           | Dining hall open for breakfast<br><i>Cather-Pound-Neihardt Dining Hall</i> |
| 9:00-10:30 am     | Lecture #6: Light and Telescopes<br><i>Brace 201</i>                       |
| 10:30 am-12:00 pm | Lab #4: Build your own telescope<br><i>Brace 201</i>                       |
| 12:00-1:00 pm     | Lunch<br><i>Cather-Pound-Neihardt Dining Hall</i>                          |
| 1:00-2:30 pm      | Lecture #7: Modern Telescopes<br><i>Brace 201</i>                          |
| 2:30-4:00 pm      | Physics Lab Tours<br><i>Brace 201</i>                                      |
| 4:00 pm           | Free Time  |
| 5:30 pm           | Dining hall open for dinner<br><i>Cather-Pound-Neihardt Dining Hall</i>    |
| 7:30-8:15 pm      | Meet the Scientist: Ed Schmidt<br><i>Brace 201</i>                         |

8:30 pm Observing Groups/Lab Activity: What else does light do?

## **Friday, July 17**

7:30 am Dining hall open for breakfast  
*Cather-Pound-Neihardt Dining Hall*

9:00-10:30 am Lecture #8: Atomic Orbitals and Types of Spectra  
*Brace 201*

10:30 am-12:00 pm Lab #5: Building a Spectrometer  
*Brace 201*

12:00-1:00 pm Lunch  
*Cather-Pound-Neihardt Dining Hall*

1:00-2:30 pm Lecture #9: Light and Matter, Spectral Lines, Types of Spectra, Minnich Telescope  
*Brace 201*

2:30-4:00 pm Computer Lab #2: NAAP – Hydrogen Atom  
*Brace 201*

4:00 pm Free Time

6:00 pm Pizza Party  
*Brace 201*

7:30-8:15 pm Meet the Scientist: Kevin Lee, Astronomy Education  
*Brace 201*

8:30 pm Observing Groups/Project Preparation/Movie Night  
*Brace 201/Ferg 217*

## **Saturday, July 18**

9:00-10:30 am Continental Breakfast/Camp Culmination, Evaluation Surveys  
*Ferguson 217*

10:30 am-12:00 pm Family Tours: Student Observatory, Solar Telescope  
*Ferguson 217*