

2019 Exploration Experience Application

“A Taste of Food Science”

The mission for an Exploration Experience is to provide students and youth interested in dairy the opportunity to utilize formal education skills in hands-on experimental learning experiences. This year’s Exploration Experience is designed to cultivate interest in Food Science and the potential career of food engineers. Through both a sensory evaluation and a food processing activity, students will be able to taste, smell, and feel all spectrums of food science with a focus on dairy products.

“A Taste of Food Science”

Tuesday, May 28, 2019

9:00 AM to 3:00 PM

Location: Food Science Labs at Penn State University, State College

Cost: FREE (participants will provide their own transportation)

At the conclusion of the day, participants will be able to:

1. Identify 2-3 ways in which dairy manufacturers evaluate cheese to ensure quality and control is maintained on a consistent basis.
2. Explain the process of how cheese is professionally manufactured.
3. Practice and discuss how new products are tested for flavor, texture, color, nutritional content, and adherence to government and industry standards.
4. Recognize 2 ways in which food safety and sanitation regulations broadly affect the field of food science.
5. Analyze the role that product development plays in relation to the supply and demand of dairy products.

What to Expect:

- Interactive Tour of the Creamery & Food Science Department at Penn State with Dr. Davis, Dr. Sigler, and Dr. Coupland
 - Cheddar Cheese Sensory Evaluation with Dr. Kaylegian
 - Lunch at the Penn State Creamery
 - Cheese/Ice Cream hands on lab with Dr. Harte and Dr. Furumoto

Applicant Expectations:

- Students must be in grades 10th, 11th, or 12th
- Students should understand chemistry and have an interest in food science/dairy
 - Students/groups must have a chaperone/advisor travel with them
 - Only 20 students will be accepted to participate
 - **Applications must be submitted by Monday, May 6th, 2019**

**2019 Exploration Experience Application
"A Taste of Food Science"**

Please complete the entire application and email to Brittany Haag by **Monday, May 6th, 2019** at
bhaag@centerfordairyexcellence.org.

Student Name: _____

Grade: _____ **Male:** _____ **Female:** _____ **Current GPA:** _____

Teacher/Advisor Name: _____ **Course:** _____

Teacher Email: _____ **Phone:** _____

School: _____ **County:** _____

School Address: _____

Related Course Work (examples: chemistry, biology, microbiology, engineering, food science, etc.):


~~~~~**Student to Complete This Section**~~~~~

**Desired Career:** \_\_\_\_\_

**How will attending "A Taste of Food Science" help you attain your future career goals?**

**Student Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Teacher Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_