ICaRE Summer Science Program

WHO IS THIS PROGRAM DESIGNED FOR?

This program is for students in grades 9-12 -as of January 2020- who would like to gain experience working in a research lab.

HOW TO APPLY:

Submit the following application materials to icare@oldwestbury.edu

- Completed Application form
- Copy of school transcript
- Resume/CV
- Essay (500 words or less) explaining your interest in science and laboratory research
- A recommendation letter from a science teacher who can speak of the student’s knowledge and interest in doing science

ADDITIONAL FORMS:

- Emergency Contact Form
- Photo Release Form
- Responsible Conduct Form

The Summer Science Program offered by the ICaRE (Institute of Cancer Research and Education) at SUNY Old Westbury provides High School students with an opportunity to learn biotechnology, molecular biology of cancer, cell biology, cancer immunology, biochemistry, cell signaling, or neuroscience under the mentorship of Faculty and current Undergraduate students. Students will gain basic science knowledge and get a hands-on research experience in various laboratory experimentation processes. Our program gives students the opportunity to:

1. Apply your knowledge to a real world problem and gain research skills.
2. Enhance your laboratory skills.
3. Have fun doing science! Immersion in a scientific environment of discovery.
ICaRE Summer Science Program

Program Timeline:
• January 15th: Application period begins
• April 1st: Selected applicants will be notified of their acceptance
• April 15th: Complete payment remitted

| SESSION 1 | 7/6 – 7/10 |
| SESSION 2 | 7/13 – 7/17 |
| SESSION 3 | 7/20 – 7/24 |
| SESSION 4 | 7/27 – 7/31 |
| SESSION 5 | 8/3 – 8/7 |
| SESSION 6 | 8/10 – 8/14 |

PROGRAM DETAILS:
• Each one-week module will give research experience in the assigned research topic
• The tuition for a one-week module is $700
• Tuition is due within two weeks after receipt of notification of acceptance and Invoice.
• Tuition is Non-Refundable.

Research Lab Description:

**Mascareno Lab:** Dr. Mascareno’s lab focuses on genetic and cellular alterations in prostate and lung cancer.

**Bednarczyk Lab:** Dr. Bednarczyk’s research examines the role of cellular and genetic factors that modulates prostate cancer metastasis.

**Cabail Lab:** Dr. Cabail’s lab focuses on the field of immunometabolism and obesity. Her lab is investigating the interplay among molecular pathways in the regulation of the obesity-induced chronic inflammatory state.

**Nissen Lab:** Dr. Nissen's research focuses on how gender affects the functionality of the brain's immune cells in their response to cancer.

**Poon Lab:** Dr. Poon’s research focuses on factors that affect the function and development of neurons using a cell culture model.

**Kim Lab:** Dr. Youngjoo Kim’s lab is interested in studying enzymes that are important therapeutic targets. We focus on understanding how enzymes work at a molecular level using a variety of biochemical techniques.