Who is this Program Designed For?

Students in grades 9-12 in 2019, who would like 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 letter of recommendation from a science teacher who can speak of the student’s knowledge and interest in doing science

FORMS TO FILL OUT

- Emergency Contact
- Photo Release
- Responsible Conduct

The Summer Science Program

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, and neuroscience under the mentorship of faculty. 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.
The Summer Science Program

Research Labs Description:

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

Gao Lab: The research in Dr. Ruomei Gao’s lab focuses on light-induced chemical reactions that produce reactive oxygen species (ROS). Those cytotoxic ROS can induce cell death in photodynamic therapy (PDT).

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 is interested in the interphase between Immunometabolism and Cancer. Her lab is studying the molecular and cellular mechanisms that regulate cancer progression and invasion in a hyper-caloric microenvironment.

Nissen Lab: Dr. Jillian 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.

Program Timeline:

• February 11th, 2019: Application period begin
• April 1st, 2019: Selected applicants will be notified of their acceptance

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Program Details:

• Each one-week module will give research experiences in molecular biology, cell biology, immunology
• The tuition of a one-week module is $600.
• Tuition is due within two weeks after receipt of notification of acceptance and invoice
• Tuition is non-refundable.