

**Winthrop University SEA-PHAGES (BIOL 270 & 271) & SEA-GENES
(BIOL 526) Research Courses
Application**

Name:

Address:

City:

State:

Zip:

Email Address:

Telephone:

GPA:

SAT Score:

and/or ACT Score:

Did you take AP or IB Biology?

Do you have the most recent score or grade?

The SEA-PHAGE + SEA-GENES project is a cohesive unit of three semesters of genuine research, which amounts to a total of 8 hours credit towards your undergraduate degree. Applicants are applying for a space in an internationally sponsored research experience. As such, accepted students are expected to take all three components of the project during their freshman and sophomore years at Winthrop University.

The BIOL 270 Discovery component of SEA-PHAGES is a lab taken in your first semester as a freshman and will be a co-requisite with BIOL 220 (cell and molecular biology) lecture. This SEA-PHAGE lab is an alternative to the regular Introductory Biology lab course (222) but counts as **2 hours** credit rather than 1 hour. You will then take the second half of the PHAGES course in the subsequent spring semester of your freshman year (course: BIOL 271 Bioinformatics lab, also **2 hours** credit), which replaces the BIOL 223 lab that is associated with BIOL 221 evolution and ecology (lecture). If you receive AP credit for these introductory biology courses, you may, and are encouraged, to apply to be part of this beneficial research program. In the spring of your sophomore year, you will take the SEA-GENES course (BIOL 526) and go back to the bench to participate in more research. The lab fees for 270 and 526 (both "wet" labs) include all the lab manuals, consumables, equipment, and protocols. **NOTE:** There is no additional lab fee for the Bioinformatics (BIOL 271) course. Winthrop students are required to have a laptop; we **strongly** recommend a PC computer (Windows works best with the software you will use, Apple Macs are not compatible).

For more information about the national SEA-PHAGES program and its benefits for all students, please visit <https://www.hhmi.org/programs/science-education-alliance>

On the next page, use the space to describe why you are interested in the SEA Project and how it will benefit you. It is particularly important to use your own words rather than AI generative text, since we are looking for students who demonstrate genuine enthusiasm and motivation to conduct relevant, publishable research. You may include any experience, related courses, and/or projects you have had in the field of science that may have influenced your interest. Then, save the completed form and send it to Dr. Frost here: frostv@winthrop.edu. Good Luck!

Personal Statement & Commitment:

Signature:

Date: