NEW COURSE - SPRING 2018

Advanced Techniques in Nucleic Acid Sequencing

MICR 493-012 - CRN 32066
(3 credit hours)

Lab/Lecture: Mondays 12:20pm - 3:20pm
Hesler 502

This is a combined lab/lecture based course. Students will use amplicon high throughput sequencing to analyze the microbiota (Bacteria and Archaea) of several environments from the Tennessee Aquarium in Chattanooga, as part of an ongoing project. Students will extract DNA from previously collected samples, amplify 16s rRNA regions using universal primer sets, and prepare libraries for sequencing on the Illumina MiSeq platform. Students will analyze and interpret the results.

Prerequisites: BIOL 220, BIOL 229, and 240.
Recommended Background: MICR 321 and MICR 329
Minimum student level – senior.

email vabrown@utk.edu for additional info