

## **Molecular Lab Skills Bootcamp**

**May 11<sup>th</sup>-15<sup>th</sup> 2014**

One Week Workshop; 0 Credit. Prerequisites: Commitment to work in a molecular research lab during the summer. Our goal is to provide a snap shot of lab skills to help students overcome initial fears and hurdles often faced by students new to a laboratory setting. Helping them assimilate to the lab environment faster and relieving some of the initial teaching load from our faculty or their staff.

### Course Description:

Students will experience one week in a teaching laboratory tackling some of the everyday tasks faced in a molecular biology research setting. Topics will include Responsible Conduct of Research Training, lab safety, lab etiquette, how to keep a notebook, etc. Students will be given a refresher on laboratory math including simple dilutions, percent solutions, and molarity. We will work through a week long experiment cloning, isolating, and analyzing bacterial plasmids. We will provide an opportunity for students to be exposed to cell culture technique including use of a microscope and counting cells. The course will cumulate in the presentation of their “data” in a lab meeting setting.

Students will leave this course having acquired knowledge and comprehension how to behave in a lab setting. Students will leave the course feeling more prepared and confident about entering research laboratories for the summer.

### **Instructor:**

Dr Sarah Golding      email: [segolding@vcu.edu](mailto:segolding@vcu.edu)      Phone: 828-3598      Office: LFSCB 314

### **TAs:**

TBA

**Structure of course:**      May 11-15<sup>th</sup>      10-4pm      LFSCB 207 and LFSCB 211

**Enrollment:** 30 max

**Prerequisites:** Commitment to work in a research laboratory for the summer.