



BME HealthReach is an outreach program that aims to teach math and science to hospitalized children using their own disease as the motivation and springboards for learning. The program is a unique opportunity for undergraduate students to be challenged to create interactive teaching modules for complex math and science principles and spend time working directly with children ages K-12. The first semester, students will work directly with families staying at the Atlanta Ronald McDonald House and students in North Fulton County Schools. Subsequent semesters, students will have the opportunity to have one-on-one patient interaction at Children's Healthcare of Atlanta. This depth elective course aims to familiarize students to the program, with the hope that students remain with HealthReach during following semesters as volunteers and course leaders.

### Course Information

**BMED 4843 Lam** – Depth Elective credit for BME majors

Section A: Monday Lecture 11:05-11:55am, Tuesday/Thursday Lab 4:30-6pm, Whitaker 1214.

### Course Objectives:

- Create new human physiology-related modules following design principles.
- Use problem-based learning skills to teach advance scientific and mathematical material at a simplified level.
- Study communication, education, and teaching skills for working with school-aged children.
- Shadow one of our current teachers in a hospital and work directly with hospitalized patients.

### Pre-requisite Requirements:

- A commitment to be a part of this program for a minimum of a full calendar year (Fall 2017 and Spring 2018)
- Current vaccinations for the following: Tdap (every ten years), Measles, Mumps & Rubella, Hep B, Chicken Pox, and willingness to do a TB test and Flu shot annually.
- Submitted online application

**Recruitment Event** – If you are interested in registering for this class, we will have two recruitment events. One will be on Tuesday, March 14<sup>th</sup> from 11-1 in Whitaker 4<sup>th</sup> Floor Learning Commons. The other will be on Thursday, March 16 from 4:30-6 on the first floor of Marcus Nanotechnology Building. **In order to apply to be in the class you must attend one of the recruitment sessions** in order to learn more about the program from current students. You must also **fill out the online application** which can be found at: <http://tinyurl.com/BMEHealthReachFall17App>

Course permits will be issued by the end of Phase I. Space is very limited based on hospital availability. For any questions, contact [bmehealthreach@gmail.com](mailto:bmehealthreach@gmail.com)

Website: [bmehealthreach.gatech.edu](http://bmehealthreach.gatech.edu) | Facebook: [www.facebook.com/BMEHealthReach](http://www.facebook.com/BMEHealthReach)