



**HealthReach is a design course with the aim to teach math and science to hospitalized children using their own disease as the motivation and springboards for learning.** The course 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

For non BMEs: free elective credit (consult with advisor)

Typical schedule - Monday Lecture 10:10-11am, Tuesday/Thursday Lab 4:30-5:45pm

### Course Objectives:

- Use problem-based learning skills to
  - Design, Create, and Teach advance scientific and mathematical material at a simplified level.
- Create new human physiology-related modules following design principles.
- 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 (Spring 2019 and Fall 2019)
- **You must attend one of the recruitment sessions** in order to learn more about the course from current students.
- **You must also fill out the online application** which can be found at:  
<https://goo.gl/forms/aFOUfTOL3w20cK4f2>

**Information Session** – If you are interested in registering for this course, we will have two information sessions

October 23rd 11am-12:30pm - Outside in the BME Quad, next to Whitaker

October 25th 4:30pm-5:45pm – ES&T L1175

Course permits will be issued by the end of Phase I. Space is limited. 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)