

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. (Note: this class was previously BMED 4843)



Course Information:

- **BMED 4863 A and AO1 Lam/Trybus** – Depth Elective credit for BME majors
- For non BMEs: free elective credit (consult with advisor)
- Spring 2024 Schedule (in-person) - Monday Lecture 9:30-10:20am, Tuesday Lab 3:30-6:15pm, and community volunteering.

Course Objectives:

- Community Volunteering – typically 20-25pts, each event has a point total equal to time at the event and travel time to the event. See the following example from Fall 2022.
- 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.

- Ronald McDonald House Gatewood Egleston – STEM events – Mondays 7-8pm (1.5 pts each)
 - September 12th and 26th
 - October 10th and 24th
 - November 7th and 14th
- Ronald McDonald House Peachtree Dunwoody Scottish Rite – STEM events – Thursdays 7-8pm (1.5 pts each)
 - September 15th and 29th
 - October 13th and 27th
 - November 10th and 17th
- Sickle Cell Education Day Fair, Saturday, September 24th ~9:30am to 3pm at Children's Support Building. (shifts - 9:30am - 12pm (3pts), 12-3pm (3.5pts), all day (6.5pts))
- GT Kids Club, Saturday, October 22nd at GT, ~8:30-12pm (3.5pts)
- Amana Academy – 8th grade science class – Fridays - 9:15-11am September 16th, 23rd, October 7th, 14th – (3.5pts each)
- Woodland Elementary 5th grade class – Fridays – 10:15 – 11am, Fridays October 21st, 28th, November 4th and 11th (2pts each)
- Middle Grades STEM event at GT with 5-8th graders – Wednesday, November 16th at Exhibition Hall on campus ~9-11:30am (2.5pts)
- 0.25pts per event for carpool driving

Pre-requisite Requirements:

- We prefer a minimum of a full calendar year commitment (Spring 2024 and Fall 2024)
- **You must fill out the online application:** <https://forms.gle/8BN3hJKaLX3dq79S7>
- **Read the 2nd page of this flyer as there will be a change for Fall 2024.**
- Applications will be accepted through **November 1st at 5pm**. No late applications will be accepted.
- **Notification of acceptance will be announced before November 6th and course permits will be issued shortly after.** Space is limited.
- For any questions, contact bmehealthreach@gmail.com

Website: bmehealthreach.gatech.edu | Facebook: www.facebook.com/BMEHealthReach

Twitter: twitter.com/BMEHealthReach Instagram: instagram.com/bmehealthreach

Depth Elective BMED 4863

Thank you for reading the second page. The information below assumes you will enroll in BMED 4863 for Spring 2024 (first semester) and Fall 2024 (second semester).

The first semester you are in BMED 4863, in addition to in-class work and assignments, volunteering requirements are primarily within the greater Atlanta community, ex. schools, Ronald McDonald House, STEM events on campus, etc. The second semester you are in BMED 4863, you can become a mentor for patients at Children's Healthcare of Atlanta and are assigned weekly volunteering hours, ex. Tuesdays 12-2pm. Weekly hospital volunteering is only for students who have completed the first semester of BMED 4863.

During a typical Fall semester, hospital volunteering begins the second week of September and lasts through November (approximately 12 weeks).

Fall 2024 will be different. The new Arthur M. Blank Hospital is opening late September/early October 2024. As such, weekly hospital volunteering will be shortened for Fall 2024. Hospital volunteering will begin after Fall Break (mid-October) and last through November (approximately 5 weeks).

There will still be plenty of community volunteering opportunities in Fall 2024 and opportunities to work with K-12 students!

If your goal is to maximize your exposure to pediatric patients and you have flexibility in your schedule, we recommend that you delay your application for BMED 4863 until Fall 2024. This will allow you to have ~12 weeks of hospital opportunities during your second semester (Spring 2025) when you are eligible for hospital volunteering.

Please reach out directly to Dr. Hardy (email below) if you have specific questions related to the new hospital opening in Fall 2024.

Elaisa.hardy@emory.edu