

Soft Robotics - Splash 2022

What will this class look like? Is it for me?

This class is for anyone interested in robotics and curious about a relatively young subfield of robotics, called soft robotics. The course will consist of a lecture-style presentation of the items described in the “Class Contents” section below, as well as some opportunities for student participation and input. I conclude my Splash courses with some time for Q&A, to give students time to ask things about the course content, or of me as their instructor for that session.

Requirements/Prerequisites:

None! The course will assume no prior knowledge of robotics, soft or otherwise. Any science/engineering concepts that do need some math/science background will be explained in class, at least to the level that you can begin to be curious and learn about these topics on your own.

Class Contents:

The class will touch on each of the topics listed, not necessarily to the same degree, but will at least introduce the concepts to students.

- What is a soft robot? How is it different from a “regular” robot?
- How do soft robots/technologies operate and behave?
- What are soft robots useful for?
- Examples of soft robots today
- The future of soft robots
- Questions?

Class Materials:

There will be a slideshow (which will be available to students shortly after the program weekend), and hopefully some elements that enable interactivity for students during the course session.