Computer Science students learn to design and implement systems to manage and visualize data, control robots, model human cognition, extract information from vast volumes of data, and more, as well as build the tools used by other IT professionals. C211 is the first step in this process and offers an introduction to Computer Science through programming. No prior programming experience is required or assumed. Through weekly labs and homework assignments, students will develop significant and satisfying problem-solving skills.

In C211, you will learn how to write programs in the Scheme programming language.

```
(define hello-world
  (lambda ()
    (printf "Hello, world!\n")))
```

In C211, you will learn how to visualize and extract information from large data sets: students write a program to compose together a sequence of black & white MRI images and provide a view into the interior of the brain by removing a cross-section and highlighting the “interesting” areas.

In C211, you will learn how to model real-world phenomena, such as biological reproduction.

```
Two Crossover Points

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Parent A

Parent B

Offspring
```

In C211, you will learn how to control robots, simulated and real, through language.

```
(run-mouse-robot
  '(left right right right right eat left stop))
```

(forward scribbler half-speed time)