

Instructor: Michael Vanier

CS 101-2: Special Topics in Computer Science, Rust Programming Language, (3 units)

OM, Tuesday, 3/30, 4-5:00pm

Course description:

Rust is a relatively new computer language which aims to provide C/C++-levels of speed, memory efficiency and low-level control but with complete memory safety. It does this using a very sophisticated memory management system based on the concept of "borrowing" which does not require (or support) garbage collection. Rust programs can run on bare metal with a minimal runtime. Rust's abstractions also greatly simplify writing correct concurrent code. In this course we will explore the Rust language using a series of small projects, emphasizing the safety features of the language that are not found in other languages.