Contact Information

This class will involve 5 significant programming assignments, a midterm & a final (no notes), and final (

59 and below	F

University Policies

Per [University Policy S16-9 (PDF) (http://www.sjsu.edu/senate/docs/S16-9.pdf)](http://www.sjsu.edu/senate/docs/S16-9.pdf), relevant university policy concerning all courses, such as student responsibilities, academic integrity, accommodations, dropping and adding, consent for recording of class, etc. and available student services (e.g. learning assistance, counseling, and other resources) are listed on the [Syllabus Information (https://www.sjsu.edu/curriculum/courses/syllabus-info.php)](https://www.sjsu.edu/curriculum/courses/syllabus-info.php) web page. Make sure to visit this page to review and be aware of these university policies and resources.

Course Schedule

The final exam is May 19, 1-3pm.

For the official class schedule, please see Canvas.

Tentative schedule by class session:
1. Course introduction
2. Introduction to Haskell
3. LaTeX
4. Big-step operational semantics
5. Higher order functions
6. Small-step operational semantics
7. Algebraic data types, kinds, and type classes
8. Functors
9. Applicative functors
10. Monads
11. Parser generators
12. Midterm review session
13. Midterm
14. Lambda calculus
15. Introduction to JavaScript
16. Event-based programming
17. JSLint and TypeScript
18. Type systems
19. Metaprogramming and JavaScript object proxies
20. Simply typed lambda calculus
21. Virtual machine lab
22. Introduction to Ruby
23. Ruby meta programming
24. Rust
25. Ethereum Solidity

26. Inform 7
27. Project presentations
28. Project presentations
29. Final review session