

Course Introduction

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UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN
DEPARTMENT OF COMPUTER SCIENCE

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Introduction and Logistics
Objectives

Clojure

Welcome to CS 296-25!

Topics for discussion:

- ▶ Logistics — instructor, grades, course objectives, lecture format
- ▶ **CLOJURE**

Me!

Name Mattox Beckman

History PhD, Fall 2003, University of Illinois at
Urbana-Champaign

Lecturer 2013–2015 Illinois Institute of Technology

Research Areas Programming Languages, Mathematical Foundations of
Computer Science, CS Education

Specialty Partial Evaluation, Functional Programming

Professional Interests Teaching; Partial Evaluation; Interpreters;
Functional Programming; Semantics and Types; Category
Theory

Personal Interests Cooking; Go (Baduk, Wei-Qi, Igo); Theology and
Philosophy; Evolution; Meditation; Kerbal Space
Program; Home-brewing; ... and many many more ...

Contact Info

Instructor Mattox Beckman

Best Contact via email. I pretend to use inbox zero, but not on weekends.

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Assignment

- ▶ Mini Machine Problems
 - ▶ Small CLOJURE programs
 - ▶ Collectively worth 50%
 - ▶ Probably 4 of these.
- ▶ Final Project
 - ▶ Announced in a few weeks
 - ▶ Worth the other 50%
- ▶ You may collaborate with one other student.

Grade Guarantees

93	A
90	A-
87	B+
83	B
80	B-
77	C+
73	C
70	C-
60	D
<60	F

- ▶ This is just for formality—you are all “supposed” to get an A in this course.
- ▶ To get an A+ you will need to do an extended version of the final project.

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Quick Intro to CLOJURE

- ▶ The first thing about CLOJURE: parentheses!

Feature	C++	CLOJURE
Functions	<code>f(x,y,z)</code>	<code>(f x y z)</code>
Arithmetic	<code>2 * x + 9 * y + 5</code>	<code>(+ (* 2 x) (* 9 y) 5)</code>
If	<code>if (x > y) a; else b</code>	<code>(if (> x y) a b)</code>
Array	<code>int a[3] = {1,2,3};</code>	<code>(def a [1 2 3])</code>
Function	<code>int inc(int i) {...}</code>	<code>(defn inc [x] (+ x 1))</code>
Lists	not built it	<code>'(10 20 30)</code>

- ▶ This will seem weird at first, but...
 - ▶ **Use a good editor!** and it will be easier to read.
 - ▶ There will be *huge* advantages later on. Code and data have the same form!
- ▶ Enough talk. Let's do the activity.