



CS 225

Data Structures

August 27 – Introduction

Wade Fagen-Ulmschneider

Introduction

Wade Fagen-Ulmschneider – CS PhD

Academic Interests: data discovery/visualization, systems programming, education worth sharing, and magic fairy dust

Mattox Beckman – CS PhD

Academic Interests: functional programming languages and computer assisted education.

Course Staff:

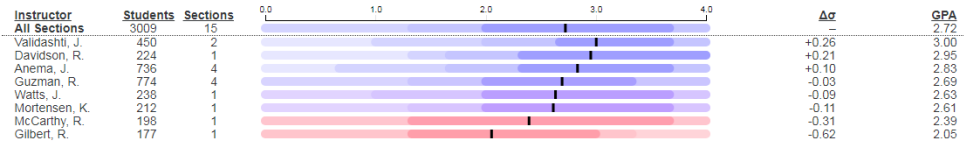
You:

My Passion: Data Discovery

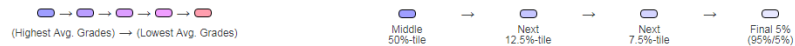
Diversity at Illinois:

GPAs at Illinois:

MATH 221: Calculus I

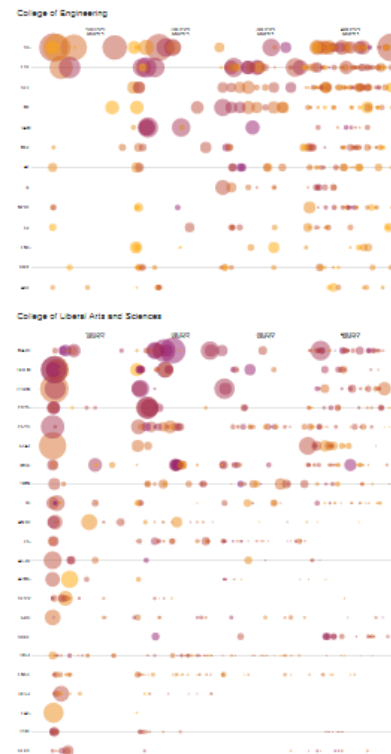
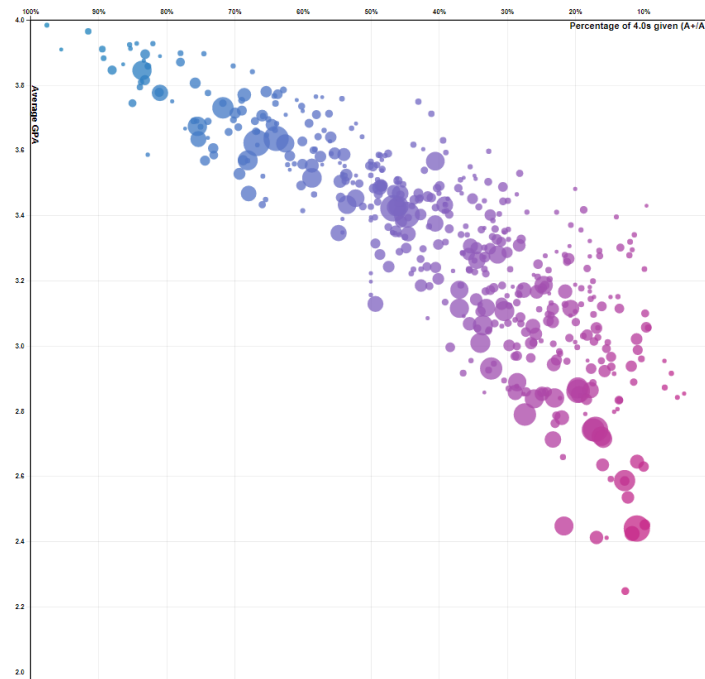


Legend

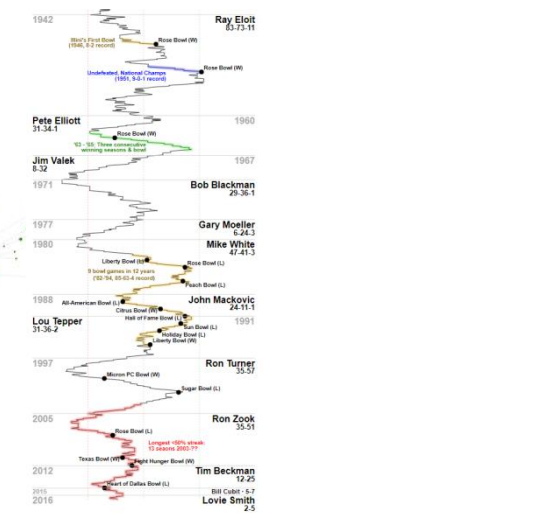


Instructors with average grades significantly lower than the average grade for a course have increasing red hues.

The darkest shading shows the median grades in a course, with each lighter showing grades further from the median.



And others:





Mattox Beckman



Course Staff



You

Everything about CS 225

<https://courses.engr.illinois.edu/cs225/>

Information on:

Staff

Communications

Lab Sections

MPs

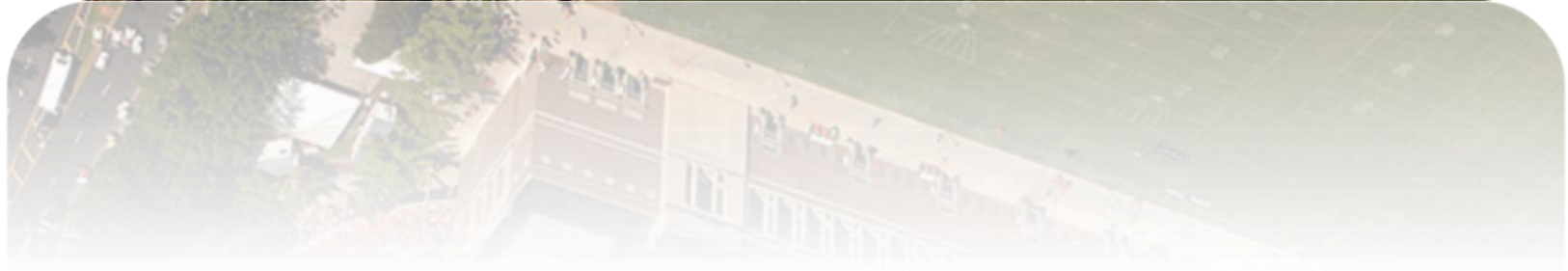
Exams


Grading

Academic Integrity



What is this course about?





ECE 220

CS 126

CS 125

INFO 490
(+others)

CS 225

CS 173

MATH 213

Variables in C++

```
int myFavoriteInt;
```

```
char grade = 'A';
```

```
double gamma = 0.653;
```

```
Cat fiona, mia;
```

```
Cube rubix;
```

```
Person wade;
```



Encapsulation

Encapsulation

Cube.h

Cube.cpp

Cube.h

```
1 #pragma once
2
3 class Cube {
4     public:
5
6
7
8
9
10
11     private:
12
13
14 };
15
16 #endif
17
18
19
20
```

Cube.cpp

```
1 #include "Cube.h"
2
3 double Cube::getVolume() {
4
5
6 }
7
8
9
10
11
12
13
14
15
16
17
18
19
20
```

Cube.h

```
4 class Cube {
5     public:
6         double getVolume();
```