

CS225

Data Structures and Software
Principles

Introductions:

Us: Cinda Heeren - CS PhD, 2004, UIUC

Research interests: data mining, computational geometry, computer science education.

More recently: new course “Visualizing Literature”, newer course cs126, even newer course cs205.

Mattox Beckman - CS PhD, 2003, UIUC

Research interests: programming languages, computer science education.

Teaching: faculty at IIT.

Course staff:

You:

All you need to know is here:

<http://cs.illinois.edu/class/cs225>

Info on:

- Staff
- Communications
- Lab sections
- MPs
- Exams
- Grading
- Academic Integrity

Today's announcements:

HW0 available by 5p, due 8/28, in class
AND svn.

MP1 available soon, due 9/1, 11:59p.

Classes cancelled 9/1—Labor Day!

DYB (Debug your brain):

- Every MWF, 12-2p, at ECEB lobby for now

Sections DO meet this week (and are very important).

What's this course about?



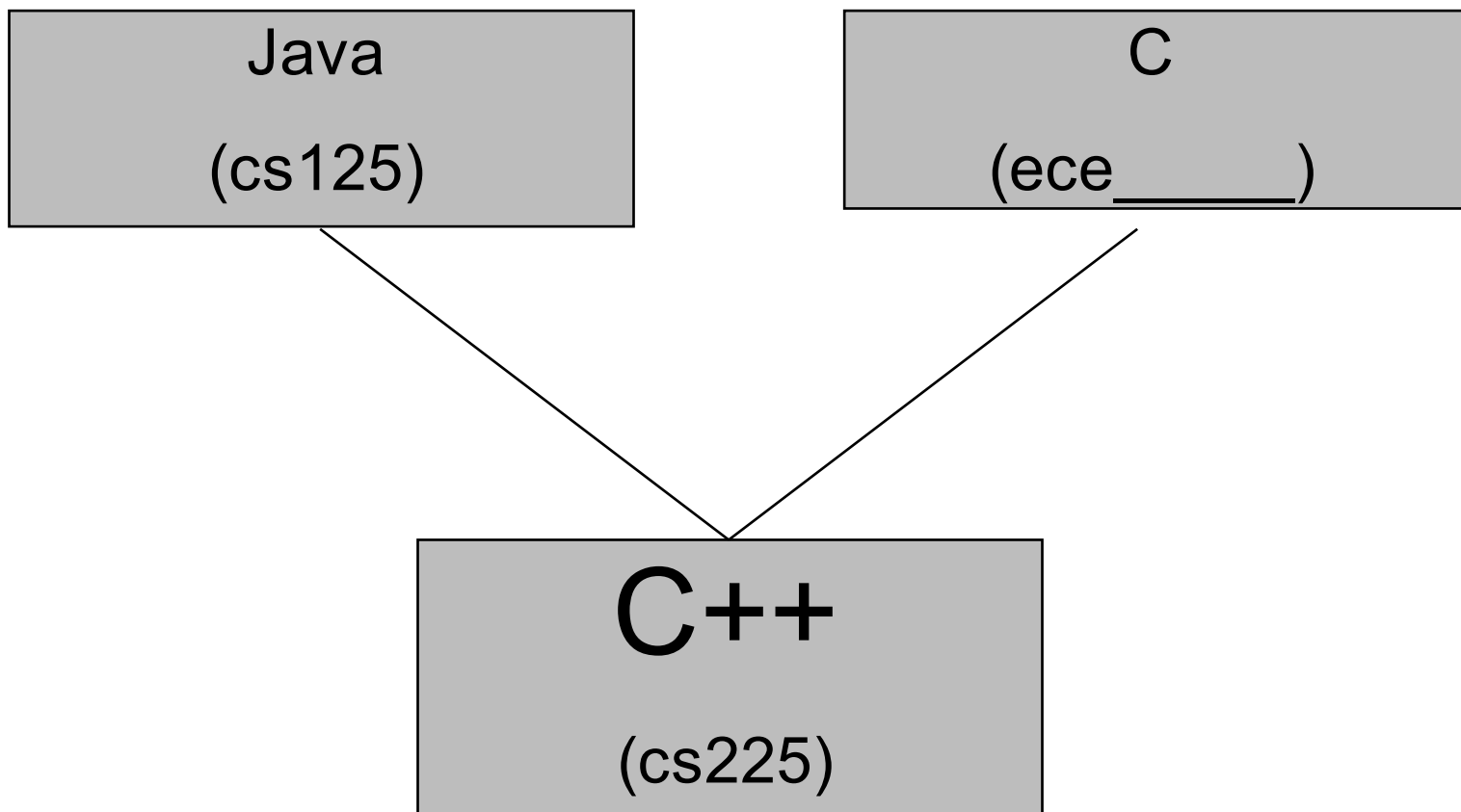
Where's Tom Bogue?



What's this course like?

- A programming and “thinking” course
 - Not an easy course
 - Expect to work hard
- A fundamental computer science course
 - Must know if you claim to be a computer scientist
 - Must know if you want to be a good programmer and designer
 - Essential for many follow up courses

Where did you come from?



Classes in C++:

Every variable has _____, _____, _____, _____

Primitive types:

```
int myFavoInt;
```

```
char rating = 'E';
```

```
double u = 37.;
```

User defined types:

```
sphere myFavoSphere;
```

_____ is a group of _____ and _____

Structure of a class defn:

how do we implement `sphere myFavoSphere; ?`

```
class sphere{  
  //member declarations  
  ...  
  
  } ;
```

`sphere` member function
definitions.

Structure of a class defn (cont):

```
class sphere{
public:

private:

};
```

sphere representation:

sphere functionality:

- 1.
- 2.
- 3.

```
int main() {  
  
  
  
  
  
  
}
```

Class Definition... where are we?

