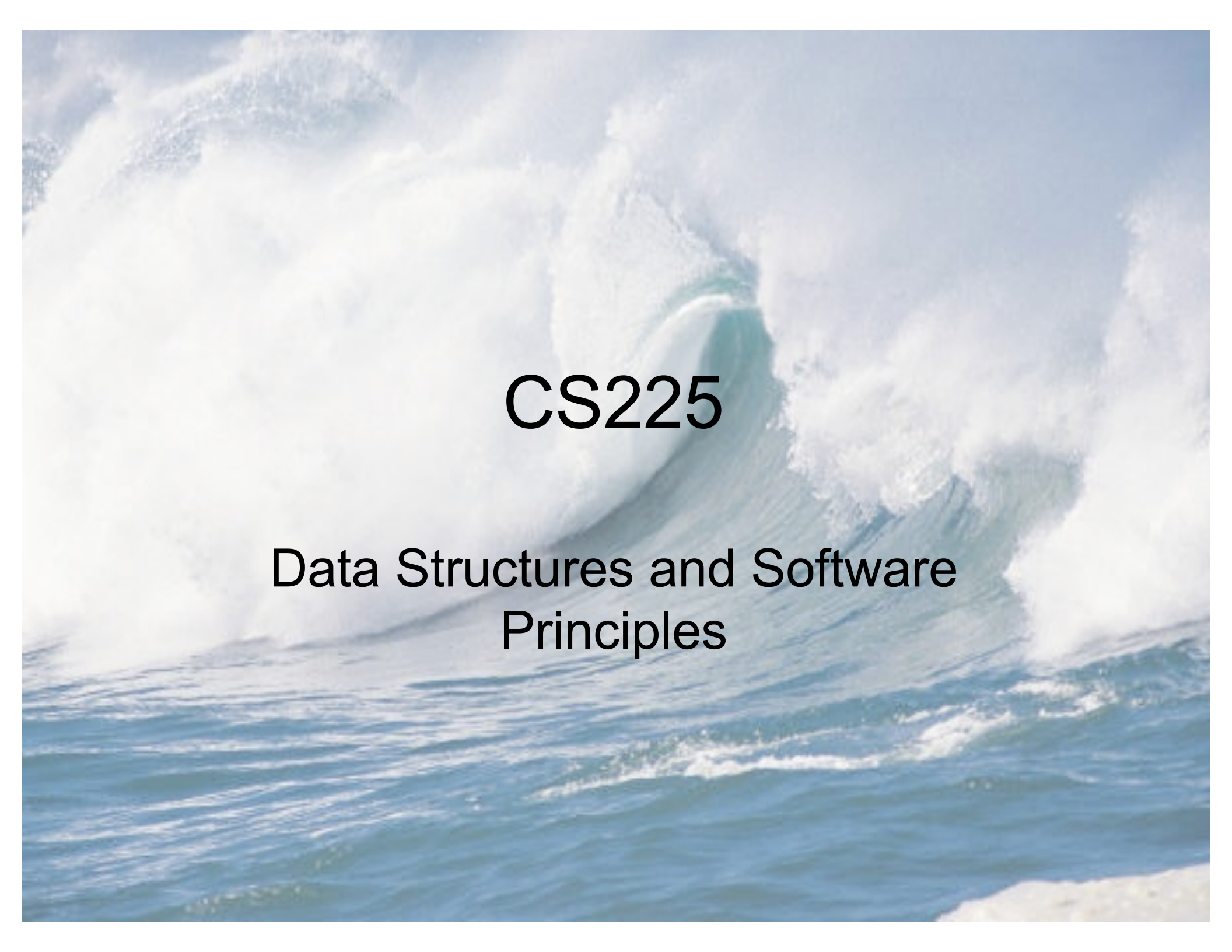




CS225

Data Structures and Software
Principles

Introductions:

Us:

Cinda Heeren – CS PhD, 2004, UIUC

Academic interests: data mining, computational geometry, data viz,
digital humanities, computer science education.

c-heeren@illinois.edu

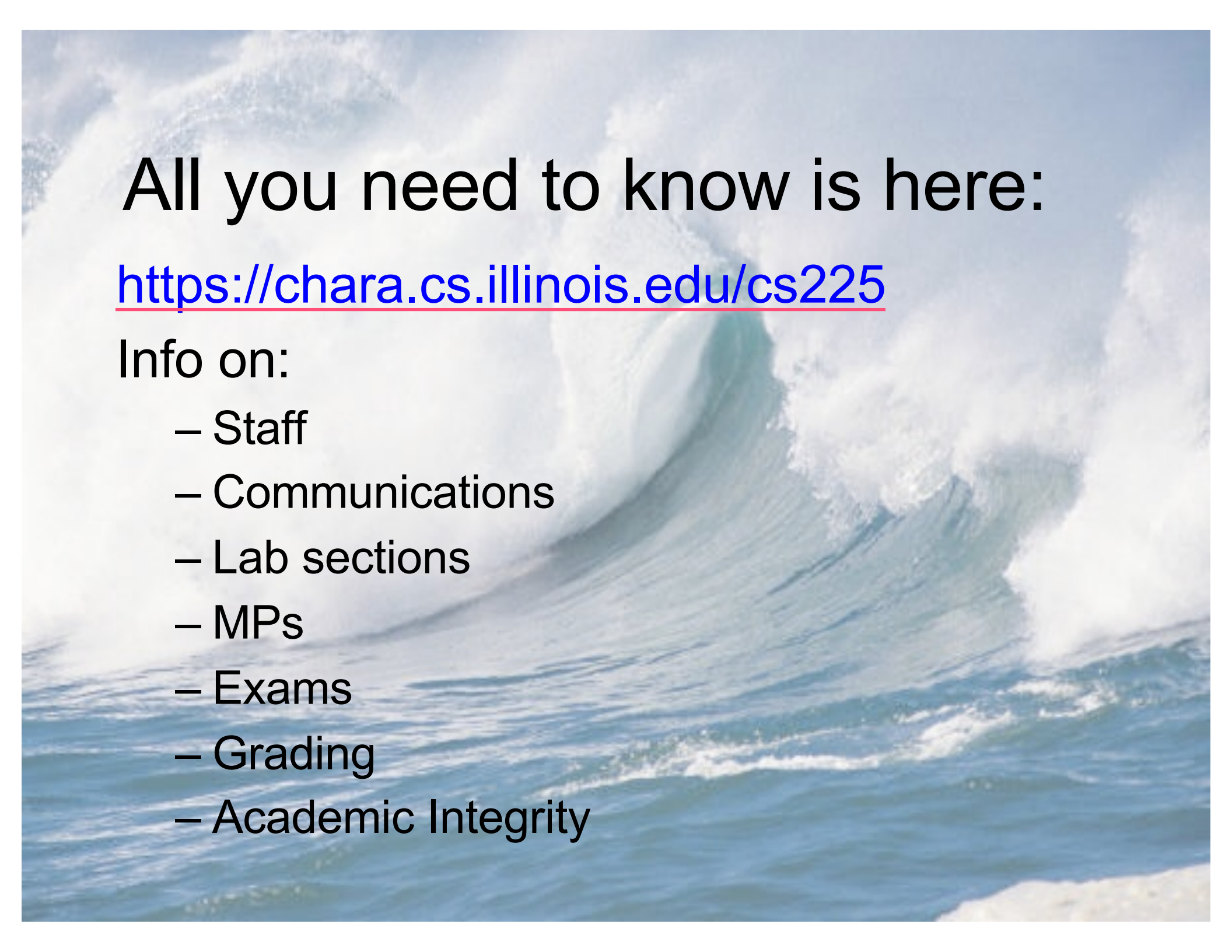
Wade Fagen-Ulmschneider – CS PhD, 2013, UIUC

Academic interests: data discovery/viz, systems programming,
education worth sharing, magic fairy dust.

waf@illinois.edu

Course staff:

You:



All you need to know is here:

<https://chara.cs.illinois.edu/cs225>

Info on:

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

Today's announcements:

HW0 available soon, due 1/27, 11:59p.

MP1 available soon, due 1/27, 11:59p.

DYB (Debug your brain):

- Every WF, 12-1:45, ECEB 3034.

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



What's this course about?



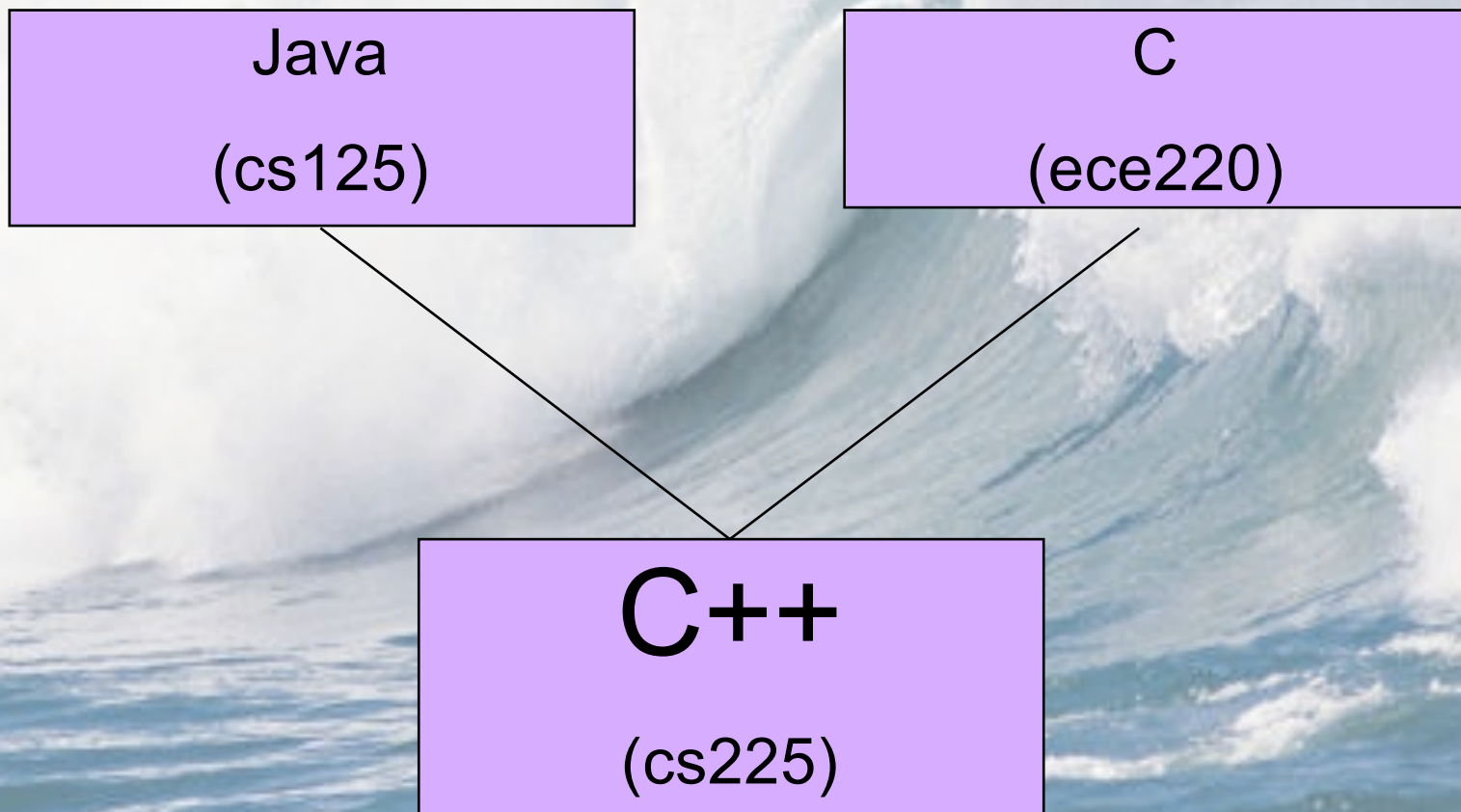
Where's Srihita Vatsavaya?



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?

