PACKAGE   CLASS   USE   TREE   DEPRECATED   INDEX   HELP

PREV CLASS   NEXT CLASS   FRAMES   NO FRAMES   ALL CLASSES
SUMMARY: NESTED | FIELD | CONSTR | METHOD   DETAIL: FIELD | CONSTR | METHOD

classes

Class Course

java.lang.Object
    classes.Course

All Implemented Interfaces:

java.lang.Comparable<Course>

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public class **Course**
extends java.lang.Object
implements java.lang.Comparable<Course>

Data object to represent a CS course.

Author:

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Field Summary

Fields

Modifier and Type	Field and Description
private int	**gradHours** The number of grad hours this course is worth.
private java.util.List<**Instructor**>	**instructors** An ArrayList of instructors that teach this course.
private java.lang.String	**name** Official title of course.
private int	**number** Course number.
private int	**underGradHours** The number of undergrad hours this course is worth.

Constructor Summary

Constructors

Constructor and Description
Course() Just a regular old constructor.

Method Summary

	All Methods	Instance Methods	Concrete Methods

Modifier and Type	Method and Description
void	**addInstructor**(**Instructor** dude) Adds an instructor to this course's list of instructors.
Instructor	**chooseInstructor**() Determines a random instructor to teach this course, chosen from the ArrayList instructors field.
int	**compareTo**(**Course** c) For sorting an ArrayList of courses by their course number.
java.lang.String	**fileBlock**() Creates a nice, readable plaintext representation of this object's attributes.
int	**getGradHours**() Standard getter.
java.lang.String	**getName**() Standard getter.
int	**getNumber**() Standard getter.
int	**getUnderGradHours**() Standard getter.
boolean	**hasInstructor**(**Instructor** dude) Determines whether or not the given instructor is already in the list.
void	**setGradHours**(int gradHours) Standard setter.
void	**setName**(java.lang.String name) Standard setter.
void	**setNumber**(int number) Standard setter.
void	**setUnderGradHours**(int underGradHours) Standard setter.
java.lang.String	**toString**() Standard toString method.
java.lang.String	**tsvLine**() Creates a single-line TSV style representation of this object's data.

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, wait, wait, wait

Field Detail

name

```
private java.lang.String name
```

Official title of course.

number

```
private int number
```

Course number.

underGradHours

```
private int underGradHours
```

The number of undergrad hours this course is worth.

gradHours

```
private int gradHours
```

The number of grad hours this course is worth.

instructors

```
private java.util.List<Instructor> instructors
```

An ArrayList of instructors that teach this course.

Constructor Detail

Course

```
public Course()
```

Just a regular old constructor.

Method Detail

chooseInstructor

```
public Instructor chooseInstructor()
```

Determines a random instructor to teach this course, chosen from the ArrayList instructors field.

Returns:

```
An instructor object.
```

addInstructor

```
public void addInstructor(Instructor dude)
```

Adds an instructor to this course's list of instructors.

Parameters:

```
dude - The instructor to add to this course.
```

hasInstructor

```
public boolean hasInstructor(Instructor dude)
```

Determines whether or not the given instructor is already in the list. This way, he/she can't be added twice.

Parameters:

```
dude - The instructor to check.
```

Returns:

```
A boolean indicating whether or not the list contains the given instructor.
```

fileBlock

```
public java.lang.String fileBlock()
```

Creates a nice, readable plaintext representation of this object's attributes.

Returns:

```
A string of plaintext containing this object's attributes.
```

tsvLine

```
public java.lang.String tsvLine()
```

Creates a single-line TSV style representation of this object's data.

Returns:

```
A single TSV line.
```

toString

```
public java.lang.String toString()
```

Standard toString method.

Overrides:

```
toString in class java.lang.Object
```

getName

```
public java.lang.String getName()
```

Standard getter.

Returns:

The name of this course.

setName

```
public void setName(java.lang.String name)
```

Standard setter.

Parameters:

name - A string to set as this course's name.

getNumber

```
public int getNumber()
```

Standard getter.

Returns:

The number of this course.

setNumber

```
public void setNumber(int number)
```

Standard setter.

Parameters:

number - An int to set as this course's number.

getUnderGradHours

```
public int getUnderGradHours()
```

Standard getter.

Returns:

The number of undergrad hours this course has.

setUnderGradHours

```
public void setUnderGradHours(int underGradHours)
```

Standard setter.

Parameters:

underGradHours - An int to set as this course's number of undergrad hours.

getGradHours

```
public int getGradHours()
```

Standard getter.

Returns:

The number of grad hours this course has.

setGradHours

```
public void setGradHours(int gradHours)
```

Standard setter.

Parameters:

gradHours - An int to set as this course's number of grad hours.

compareTo

```
public int compareTo(Course c)
```

For sorting an ArrayList of courses by their course number.

Specified by:

compareTo in interface java.lang.Comparable<Course>