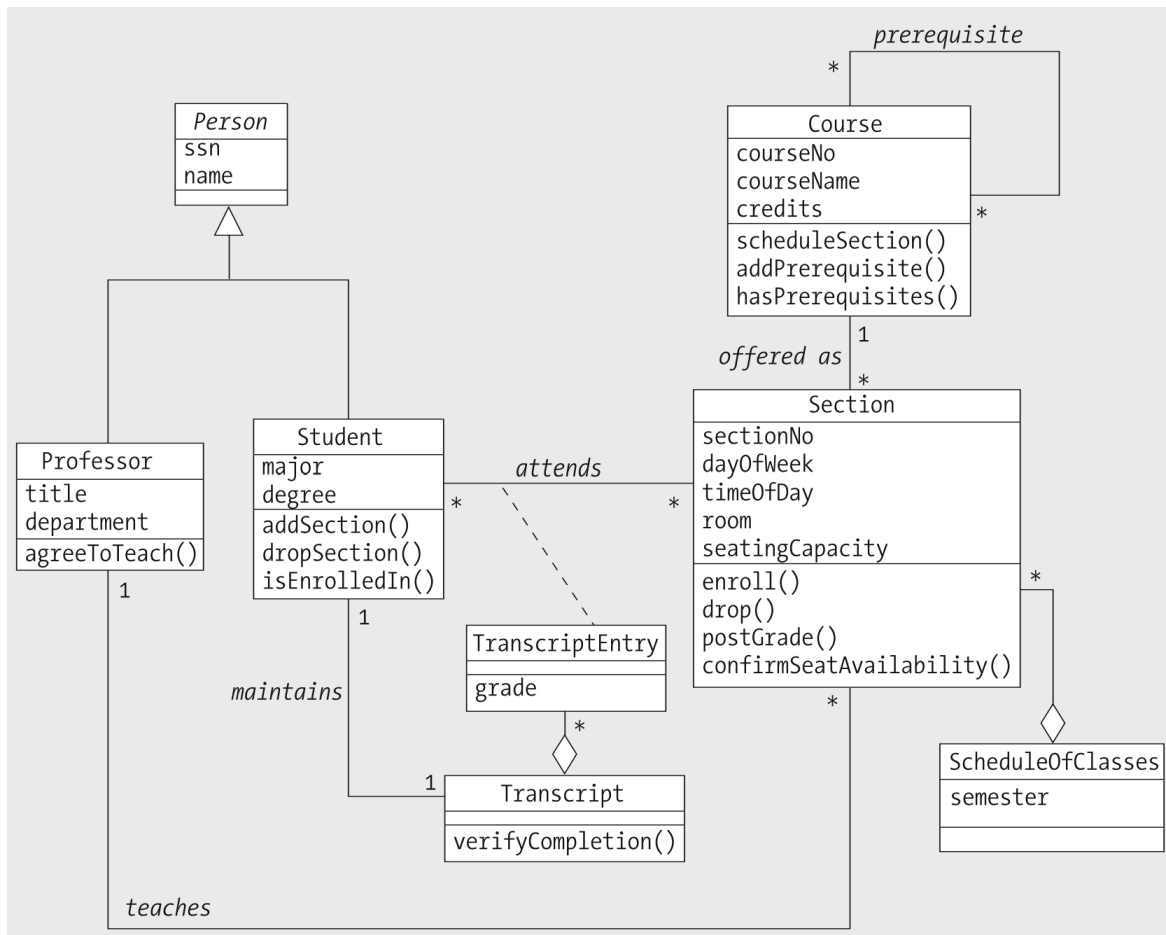
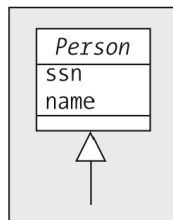


## OOP – Lab 3

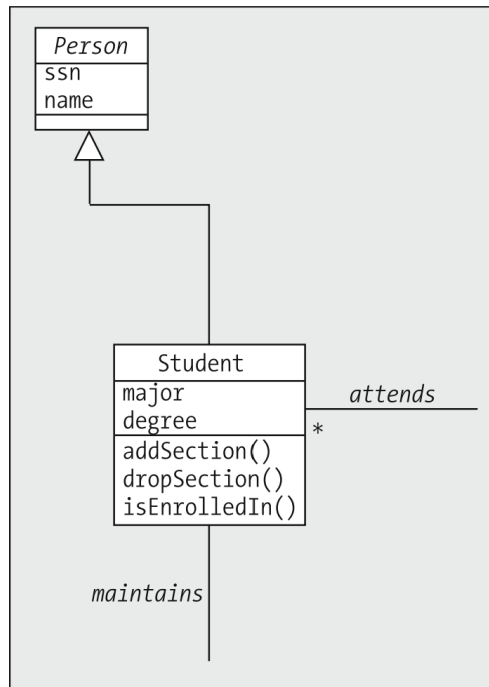
### The SRS Class Diagram – Page 567



### The Person Class



### The Student Class



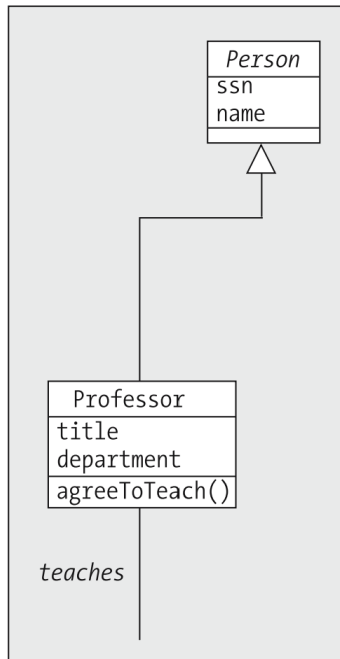
### Attributes of Student

There are two attributes explicitly called out for the Student class in our UML diagram: major and degree. Student participates in two associations:

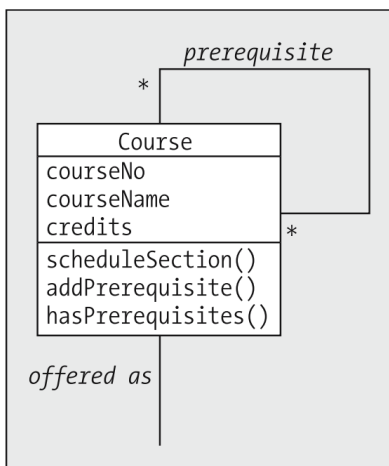
- attends, a many-to-many association with the Section class
- maintains, a one-to-one association with the Transcript class

and so we must allow for each Student to maintain handles on a single Transcript object and on many Section objects.

### The Professor Class



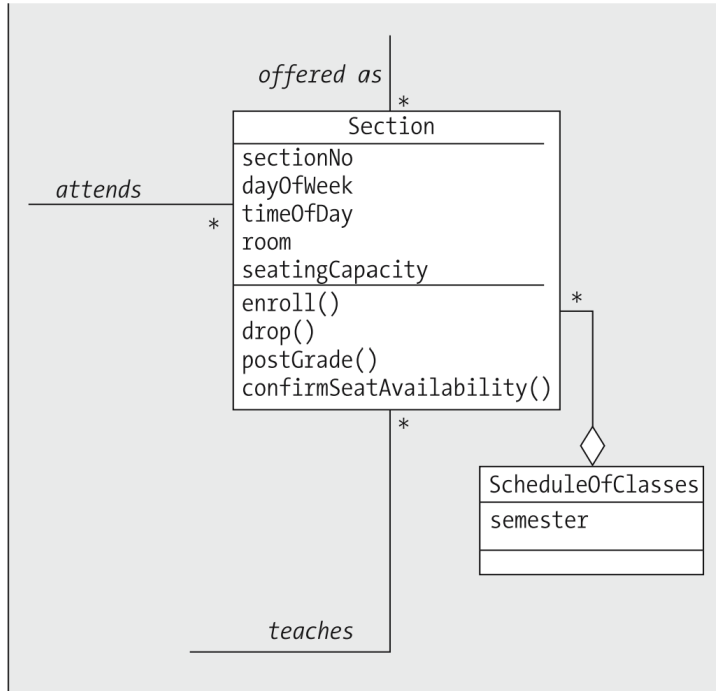
### The Course Class



Course Attributes Referring back to the SRS class diagram, we see that Course has three simple attributes and participates in two associations:

- offered as, a one-to-many association with the Section class
- prerequisite, a many-to-many reflexive association

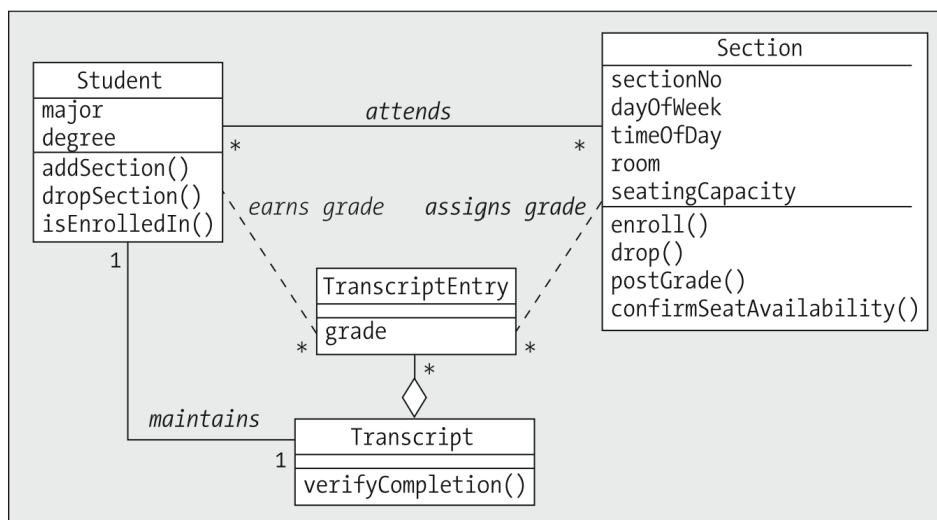
### The Section Class



the Section class participates in numerous relationships with other classes:

- offered as, a one-to-many association with Course
- An unnamed, one-to-many aggregation with ScheduleOfClasses
- teaches, a one-to-many association with Professor
- attends, a many-to-many association with Student

The attends association is in turn affiliated with an association class, TranscriptEntry.



Let's say we want the `displayCourseSchedule` method to display the following information for each Section that a Student is currently enrolled in:

Course Schedule for Fred Schnurd

Course No.: CMP101

Section No.: 2

Course Name: Beginning Computer Technology

Meeting Day and Time Held: W - 6:10 - 8:00 PM

Room Location: GOVT202

Professor's Name: Claudio Cioffi

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Course No.: ART101

Section No.: 1

Course Name: Beginning Basketweaving

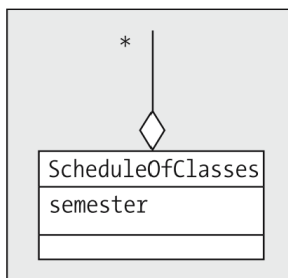
Meeting Day and Time Held: M - 4:10 - 6:00 PM

Room Location: ARTS25

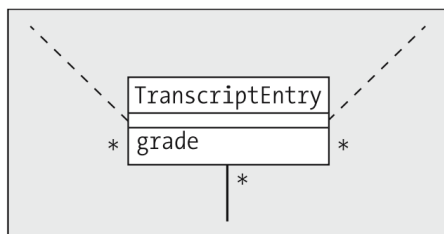
Professor's Name: Snidely Whiplash

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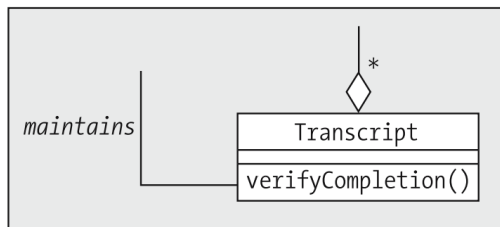
### The ScheduleOfClasses Class



### The TranscriptEntry Association Class



### The Transcript Class



The Transcript class participates in two relationships:

- maintains, a one-to-one association with Student

- An unnamed, one-to-many aggregation with TranscriptEntry