ADVANCED SOFTWARE ENGINEERING

Assignment#1

Sravani Punyamurthula

#16194946

UML Class Diagram

Scenario:

A master student can take courses at the UMKC. Courses can be lectures or lab classes. Each master student must take at least one course. Each course is held by a research department. Each research department has at least one professor and 0 to 30 research assistant. Students, professors and research assistants have a lot in common: They have a name, a first name and a date of birth.

Relationships:

1) Student, professor and research assistant realize the interface person(Interface realization)
2) Each research department has 1 to many courses. (composition)
3) Each student is part of atleast 1 course (aggregation)
4) Labs and lectures inherit from courses (generalization)
5) Professor associates with a course(association)