EECS 3421 – Assignment 1A

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Section: N

Entity sets include: 1. Professor – Key: SSN
2. Courses – Key: Department name, Number
3. Students – Key: SSN
4. Section (weak entity set) - Primary Key: Section number/letter (Eg. section N) + Keys of *Courses* entity set
5. GTA (*subclass* of entity set Students hence it inherits all properties and keys)

All relations are many – many except the relation "Has" between weak entity set section and supporting set course/class which is many – one as indicated in the figure attached below. Since one course may have may sections but one section is specific to one course only.

I included all the information in my diagram except students dropping classes to make space available since there isn't any clear detailed information about that aspect.

Relationships: Can teach, team teach, has (weak), is-a, enrolled-in, waitlisted for and pre-requisites.