

UML Diagrams for Major Program 2

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Person

firstname:String

lastname:String

studentId:String

birthDate:String

phoneNumber:String

Person's first name

Person's last name

Person's student Id number

Person's date of birth "mm/dd/yyyy"

Person's phone number

```
+ Person()
+ Person(fname:String, lname:String,
  sId:String, birthDate:String,
  phoneNumber:String)
+ toString():String
+ setFirstname(firstname:String): void
+ getFirstname():String
+ setLastname(lastname:String): void
+ getLastname():String
+ setStudentId(studentId:String): void
+ getStudentId():String
+ setBirthDate(birthDate:String): void
+ getBirthDate():String
+ setPhoneNumber(phoneNumber:String): void
+ getPhoneNumber():String
```

Use default values

Instantiate using members

Returns each field in the class separated by a comma

//mutator and accessor methods for members of this class

Student

major:String

creditHours:Int

gpa:Float

classSchedule:ArrayList<String>

Student's major

Total credit hrs, not the semester credit hrs

Student's gpa

ArrayList of course numbers {"COMP365", "MATH201",
"GEEN345"}

```
+ Student()  
+ Student(fname:String, lname:String,  
  sld:String, birthDate:String, phoneNumber:String,  
  major:String, creditHours:Int, gpa:float)  
+ toString():String  
+ setMajor:String(major:String): void  
+ getMajor():String  
+ setCreditHours:Int(creditHours:Int): void  
+ getCreditHours():Int  
+ setGpa:Float(gpa:Float): void  
+ getGpa():Float  
+ getNumClasses():Int  
+ getClassSchedule(index:Int):ClassSchedule  
+ setClassSchedule(index:Int, item:ClassSchedule):void  
+ addClassSchedule(item:ClassSchedule):void  
+ deleteClassSchedule(index:Int):ClassSchedule
```

Use default values

Instantiate using members

Returns all the properties in the person and student classes
//mutator and accessor methods for members of this class and
the ArrayList

GraduateStudent

thesis:String

concentration:String

assistanceType:String

Title of thesis

Concentration focus for their degree

Ether RA or TA

```
+ GraduateStudent()  
+ toString():String  
+ setThesis(thesis:String): void  
+ getThesis():String  
+ setConcentration(concentration:String): void  
+ getConcentration():String  
+ setAssistanceType(assistanceType:String): void  
+ getAssistanceType():String
```

Use default values

Returns the toString from Student with the additional properties from GraduateStudent

//mutator and accessor methods for members of this class

Employee

hireDate:String

status:String

department:String

When Employee was hired

FT for full time, PT for part time

What department/field the Employee works in

```
+ Employee()  
+ toString():String  
+ setHireDate(hireDate:String): void  
+ getHireDate():String  
+ setStatus(status:String): void  
+ getStatus():String  
+ setDepartment(department:String): void  
+ getDepartment():String
```

Use default values

Returns the toString from Person with the additional properties from Employee

//mutator and accessor methods for members of this class

Faculty

rank:String

researchArea:String

currentCourses:ArrayList<String>

Faculty's position(Assiatnt, Associate, Full)

What was being researched

ArrayList of course numbers {"COMP365", "MATH201",
"GEEN345"})

```
+ Faculty()  
+ toString():String  
+ setRank(rank:String): void  
+ getRank():String  
+ setResearchArea(researchArea:String): void  
+ getResearchArea():String  
+ getNumCurrentCourses():Int  
+ getCurrentCourses(index:Int):CurrentCourses  
+ setCurrentCourses(index:Int, item:CurrentCourses):void  
+ addCurrentCourses(item:CurrentCourses):void  
+ deleteCurrentCourses(index:Int):CurrentCourses
```

Use default values

Returns the toString from Employee with the additional
properties from Faculty

//mutator and accessor methods for members of this class and
the ArrayList

Staff

jobTitle:String

supervisor:String

careerBand:String

Staff's job title

Supervisor's name

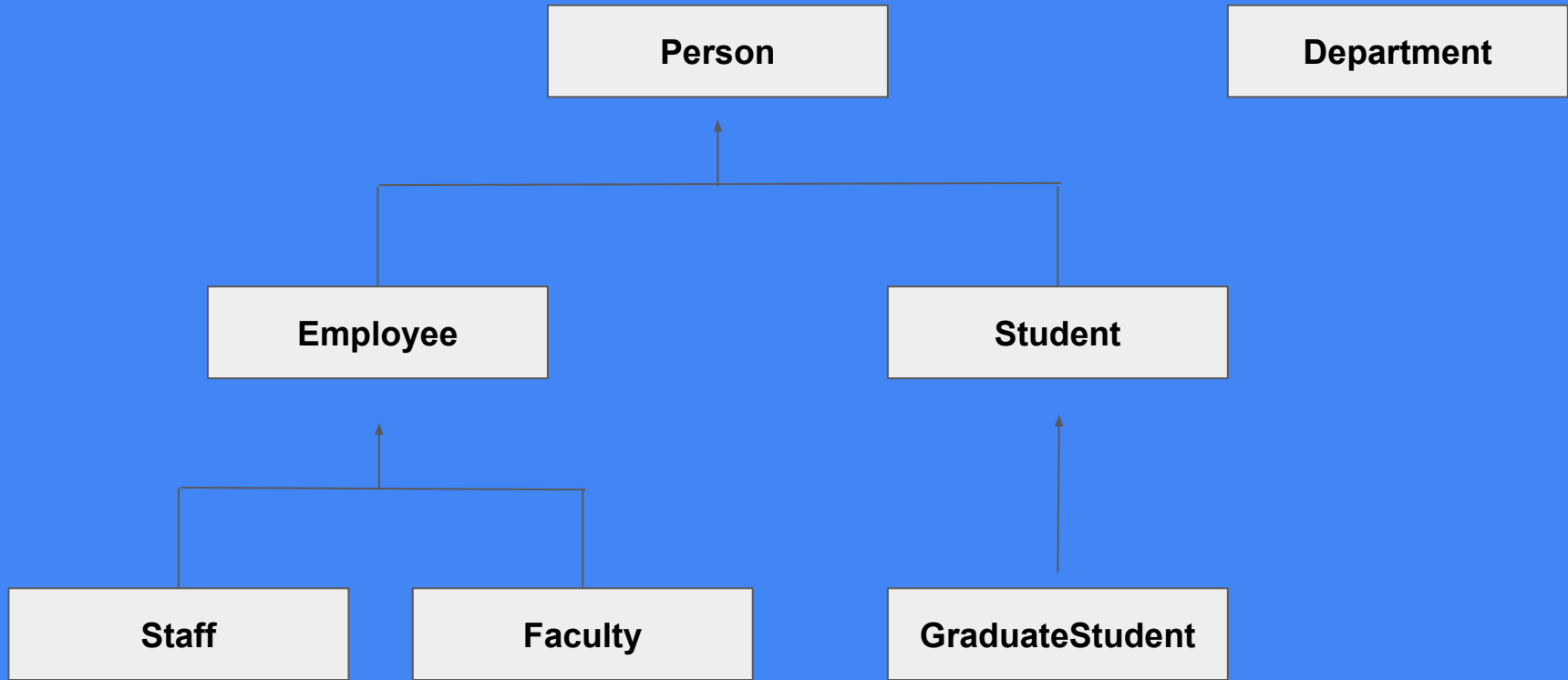
Contributing, Journey, Advanced

```
+ Staff()  
+ toString():String  
+ setJobTitle(jobTitle:String): void  
+ getJobTitle():String  
+ setSupervisor(supervisor:String): void  
+ getSupervisor():String  
+ setCareerBand(careerBand:String): void  
+ getCareerBand():String
```

Use default values

Returns the toString from Employee with the additional properties from Staff

//mutator and accessor methods for members of this class



UML Domain Model