Logo

Description automatically generated

**<22/SP-COP-2800-72035> Java Advanced**

**<Assignment 11-02>**

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# Document Version Control

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# Document Purpose

The purpose of this document is to define the Faculty Class.

# Technical Specifications

## Purpose of Technical Implementation

The purpose of the Faculty subclass is to create an object that stores information relevant to the Faculty such as their office phone number, salary, date of hire; and includes the information from the Person super class.

## Technical Implementation Components

This class has four methods that display relevant information of the object, three methods to set properties of the object, and one constructor that requires arguments to populate all properties.

**Properties**

1. OfficeHours: this property stores the Faculty’s office hours in string format
2. Rank: this property stores the Faculty’s rank

**Methods**

1. getOfficeHours(): returns the office hours
2. getRank(): returns the object’s rank
3. setOfficeHours(String officeHours): setters for office hours property
4. setRank(String rank): setters for rank property
5. toString(): displays all information of the object in a readable format

**Constructors**

The Faculty class is constructed with eight arguments. Each is assigned to the properties of this class and those inherited from each parent class.

Faculty Faculty\_object\_variable = new Faculty(String name, String address, String phone, String email, int office, double salary, String officeHours, String rank)

## Technical Implementation Pseudocode

Ask user for input that will be used to construct the Faculty object

Create instance of the Faculty class with required arguments

Use the appropriate get method to display officeHours, rank, or see all information in a readable format.

Use the setRank method to edit the object’s rank property

Use the setOfficeHours method to edit the object’s rank property

End