# **UML Class Diagram**

#### Instructor

- instructorID: str - courses: courseID[] - name: str

+ getName(): str + setName(name: str): boolean + setInstructorID(instructorID: str): boolean + getInstructorID(): str + setCourses(courses: str[]): boolean + getCourses(): courseID[] + addCourse(courseID: str): boolean

+ deleteCourse(courseID: str): boolean + deleteTask(instructorID: str, courseID: str,

taskID: str): boolean + updateTask(instructorID: str, courseID: str, type: str, deadline: Time, taskID: str, blurb:

str): boolean + createTask(instructorID: str, courseID: str, type: str, deadline: Time, taskID: str, blurb: str): boolean

### Student

- studentID: str - name: str - courses: courseID[]

+ setStudentID(studentID: str): void + getStudentID(): str + getCourses(): courseID[] + addCourse(): void + deleteCourse(courseID: str): void

## Course

- tasks: Task∏ - admins: str∏

- courseID: str

- name: str

+ setName(name: str): void

+ getName(): str

+ setCourseID(courseID: str): void

+ getCourseID(): str

+ deleteTask(taskID: str): void

+ setTasks(tasks: Task[]): void

+ getTasks(): Task[]

+ addTask(Task): void

+ deleteTask(taskID: str): void

+ findTask(taskID): Task

+ setAdmins(admins: str[]): void

+ getAdmins(): str[]

+ addAdmin(adminID: str): void

+ deleteAdmins(adminID: str):

void

#### Time

- year: int

- month: int

- date: int - hour: int

- minute: int

+ setTime(int, int, int, int, int): boolean

## Task

- type: str - deadline: Time - taskID: str

- blurb: str

+ setType(type: str):boolean

+ getType(): str

+ setDeadline(year: int, month: int, date: int,

hour: int, minute: int): boolean

+ getDeadline(): Time

+ setTaskID(taskID: str): boolean

+ getTaskID(): str

+ setBlurb(blurb: str): boolean

+ getBlurb(): str