

Instructor
<div>- instructorID: String</div> <div>- instructorName: String</div> <div>- instructorOffice: String</div> <div>- fieldOfStudy String</div> <div>- isOnVacation: boolean</div> <div>- leaveBalance: int</div>
<div>+ getAvailableInstructors(): ArryList &lt;Instructor&gt;</div> <div>+ getAvailableFOSInstructor(String fieldOfStudy): ArrayList &lt;Instructor&gt;</div> <div>+ getInstructorByOffice(String office): Instructor</div> <div>+ takeVacation(String instructorID): boolean</div>

Student
<div>- studentID: String</div> <div>- studentName: String</div> <div>- age : int</div> <div>- isEnrolled: boolean</div> <div>- course: String</div>
<div>+ getAllStudentInCourse(String course): ArrayList &lt;Student&gt;</div> <div>+ enrollStrudent(String studentID ,String course): void</div> <div>+ getAllFreeStudents(): ArrayList &lt;Student&gt;</div> <div>+ getAllJuniorStudents(): ArrayList &lt;Student&gt;</div>

Course
<div>- courseID: String</div> <div>- courseName: String</div> <div>- classRoom: String</div> <div>- topic: String</div> <div>- ageGroup: {"junior","intermediate","senior"}</div> <div>- startDate: LocalDate</div> <div>- endDate: LocalDate</div> <div>- isFinished: boolean</div>
<div>+ getCoursesByAgeGroup(String ageGroup): ArrayList &lt;Course&gt;</div> <div>+ finishCourse(String courseID): boolean</div> <div>+ getOngoingCourses(): ArrayList &lt;Course&gt;</div> <div>+ getCourseReminingDays(String courseID): int</div>