

UML for Midterm
Members:
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CLASS SCHEDULE

Name: Jane Doe
Semester : Fall 2017 (09/03/17 -12/18/17)
Number of classes: 2

Course Info: CSIS 121 -- Coq
of Units: 3.00
Course Dates: 09/06/2017 - 10/15/17
Meeting Days: MW
Meeting Time: 10:45AM - 12:10PM
Daily Duration: 1.42 hours

MainTester

```
#include <Course.ccp>
#include <Date.cpp>
#include <Time.cpp>
#include <CourseSchedule>
#include <Semester>

1) Enter a new course
2) Remove a course
3) Print a semester schedule
q) Quit the program
```

Time

private:

- int hour
- int minute

public:

- + Time(int=0, int=0)
- + Time& setTime(int, int)
- + Time& setHour(int)
- + tTime& setMinute(int)
- + int getHour() const
- + int getMinute() const
- + void printUniversal() const;
- + void printStandard() const;

Date

private:

- int month
- int day
- int year

public:

- + Date(int=1, int=1, int=1990)
- + void setDate(int, int, int)
- + int setHour(int)
- + int setDay(int)
- + int setYear(int)
- + int getMonth () const
- + int getDay () const
- + int getYear() const

Course

private:

- char [8] courseNumber
- char [20] courseName
- char [4] courseMeetDays
- char [2] courseUnits
- Date dateStart
- Date dateEnd
- Time timeStart
- Time timeEnd

public:

- // default constructor
- + Course(char, char, char, char, Date(dateStart = dateStart()), Date(dateEnd = dateEnd()), Time(timeStart = timeStart()), Time(timeEnd = timeEnd()))
- // destructor
- + ~ void Course() // says course deleted
- + getCourseNumber()
- + getCourseName
- + getCourseMeetDays
- + getCourseNumUnits()
- + getDate (getDate = getDate())
- + getTime(getTime = getTime())
- // do not rewrite code
- + char [] setCourseNumber(char [])
- + char [] setCourseName(char [])
- + char [] setcourseMeetDays(char [])
- + char [] setNumUnits(char [])
- // do not rewrite code
- // allow cascading
- + char [] getCourseNumber(char [])
- + char [] getCourseName(char [])
- + char [] getcourseMeetDays(char [])
- + char [] getNumUnits(char [])
- + setDate(setDate = setDate())
- + setTime(setTime = setTime())
- + double calcDailyDuration(duration(hours/mins)) // returns fraction, don't repeat code

CourseSchedule

private:

- char [80] studentName
- Semester semester
- char [] *Course
- int maxSize
- static int numCourses // track numcourses

public:

- + CourseSchedule(studentName, (semester = Semester()) numCourses)
- + ~CourseSchedule()
- + char [] getStudentName()
- + char [] getSemester()
- + char [] getNumCourses()
- + char [] setStudentName(char [])
- // make sure course dates are not outside semester dates in this function
- + void checkDates(Semester=Semester(), (CourseDate= CourseDate()), (CourseEnd = CourseEnd()))
- // prints out confirming that has been added to course schedule array
- // add +1 to numCourses
- + void addCourse((Course [])
- // remove course
- // update numCourses
- + void removeCourse((Course[])

Semester

private:

- char [] semesterName
- Date startDate
- Date endDate

public:

- // constructor
- + Semester(semesterName, (Date startDate = startDate()), Date endDate = endDate()))
- + void printSemester()
- //get -> not too positive about this
- + char [] getSemesterName()
- + Date getstartDate()
- + Date endDate()
- //set
- + char [] setSemesterName()
- + Date setStartDate()
- + Date setEndDate()