CS250 Assignment 1 Rubric
Pacific University Courses

Name: **Grade:_____/30**

Project on time (-10% if one day late)	_____
Electronic copy submitted (-40% if not)	_____
Hard copy submitted (-20% if not)	_____
Project builds without errors (-40% if no)	_____
Project builds without warnings (-10% if no)	_____

Successful Execution (40% 12pts):

Outputs program title correctly and menu correctly (1 pts)	_____
Menu accepts only the numbers 1-4. Otherwise it displays the menu again. Selecting option 4 quits. (1 pts)	_____
Test 1: (2pts) Given Input. **See assignment handout**	_____
Test 2: (2pts) 9 courses. None full. **See below**	_____
Test 3: (2pts) 10 courses. All Full. **See below**	_____
Test 4: (1pts) 11 Courses. **See below**	_____
Test 5: (1pts) 1 Course with prefix ENGL. **See below**	_____
Test 6: (2pts) User types invalid course. **See below**	

Successful Design (40% 12pts):

Used a suitable struct (1 pt)	_____
Used a suitable array (1 pt)	_____
Good use of functions: (6 pts) readCourse printCourse addStudent	_____
Main function is mostly variable declarations and function calls (2 pts)	_____
Each function is small and focused on a particular task (2 pts)	_____

Acceptable Style (20% 6pts):

Project and solution named correctly (1 pt)		_____
Code formatting and style (5 pts, 0.5 each)		
	• Constants are used appropriately. No magic constants.	_____
	• Formatting of code: braces and indentations are correct	_____
	• Tabs set to 2	_____
	• No line wraps – 80 chars per line	_____
	• File header comments are complete/correct	_____
	• Function header comments are complete/correct	_____
	• One space before & after each operator	_____
	• Well named variables using prefixes	_____
	• Correct program organization (order of items in your solution)	_____
	• One space before each parenthesis for control structures (if, for, while, etc.)	_____

Test 1: EXPECTED OUTPUT
Input/Output: See assignment handout.
(See CS 250 public folder. File named: test1.txt)

Test 2: EXPECTED OUTPUT
(See CS 250 public folder. File named: test2.txt)

```
*************************
PACIFIC UNIVERSITY COURSES
*************************

1. Print all courses.
2. Find one course.
3. Add student.
4. Quit.

Option: 1

CS 250 Cap: 48 Available: 12
CS 460 Cap: 24 Available: 15
CS 494 Cap: 24 Available: 15
MATH 121 Cap: 25 Available: 2
MATH 240 Cap: 30 Available: 10
CS 251 Cap: 48 Available: 12
CS 461 Cap: 24 Available: 15
CS 495 Cap: 24 Available: 15
MATH 122 Cap: 25 Available: 2

1. Print all courses.
2. Find one course.
3. Add student.
4. Quit.

Option: 2

Prefix: CS
Number: 251

CS 251 Cap: 48 Available: 12

1. Print all courses.
2. Find one course.
3. Add student.
4. Quit.

Option: 3

Prefix: CS
Number: 251

CS 251 Cap: 48 Available: 11

1. Print all courses.
2. Find one course.
3. Add student.
4. Quit.

Option: 1

CS 250 Cap: 48 Available: 12
CS 460 Cap: 24 Available: 15
CS 494 Cap: 24 Available: 15
MATH 121 Cap: 25 Available: 2
MATH 240 Cap: 30 Available: 10
CS 251 Cap: 48 Available: 11
CS 461 Cap: 24 Available: 15
CS 495 Cap: 24 Available: 15
MATH 122 Cap: 25 Available: 2

1. Print all courses.
2. Find one course.
3. Add student.
4. Quit.

Option: 4
```

Test 3: EXPECTED OUTPUT

(See CS 250 public folder. File named: test3.txt)

```
*************************
PACIFIC UNIVERSITY COURSES
*************************

1. Print all courses.
2. Find one course.
3. Add student.
4. Quit.

Option: 1

CS 250 Cap: 10 Available: 0
CS 460 Cap: 10 Available: 0
CS 494 Cap: 10 Available: 0
MATH 121 Cap: 10 Available: 0
MATH 240 Cap: 10 Available: 0
CS 251 Cap: 10 Available: 0
CS 461 Cap: 10 Available: 0
CS 495 Cap: 10 Available: 0
MATH 122 Cap: 10 Available: 0
MATH 241 Cap: 10 Available: 0

1. Print all courses.
2. Find one course.
3. Add student.
4. Quit.

Option: 3

Prefix: CS
Number: 250

Course already full.

1. Print all courses.
2. Find one course.
3. Add student.
4. Quit.

Option: 4
```

Test 4: EXPECTED OUTPUT

(See CS 250 public folder. File named: test4.txt)

```
*************************
PACIFIC UNIVERSITY COURSES
*************************

 TOO MANY COURSES
```

Test 5: EXPECTED OUTPUT

(See CS 250 public folder. File named: test5.txt)

Input:

```
*************************
PACIFIC UNIVERSITY COURSES
*************************

Invalid course in file
```

Test 6: EXPECTED OUTPUT

(See CS 250 public folder.
File named: test6.txt)

```
*************************
PACIFIC UNIVERSITY COURSES
*************************

----------------------------
1. Print all courses
2. Print one course
3. Add a student to a course
4. Quit
----------------------------

Option: 1

CS 250 Cap: 48 Available: 12
CS 460 Cap: 24 Available: 15
CS 494 Cap: 24 Available: 15
MATH 121 Cap: 25 Available: 2
MATH 240 Cap: 30 Available: 10

----------------------------
1. Print all courses
2. Print one course
3. Add a student to a course
4. Quit
----------------------------

Option: 2

Prefix: ENGL

Prefix: CS
Number: 315

That course does not exist

----------------------------
1. Print all courses
2. Print one course
3. Add a student to a course
4. Quit
----------------------------

Option: 2

Prefix: ENGL

Prefix: CS
Number: 494

CS 494 Cap: 24 Available: 15

----------------------------
1. Print all courses
2. Print one course
3. Add a student to a course
4. Quit
----------------------------

Option: 4
```