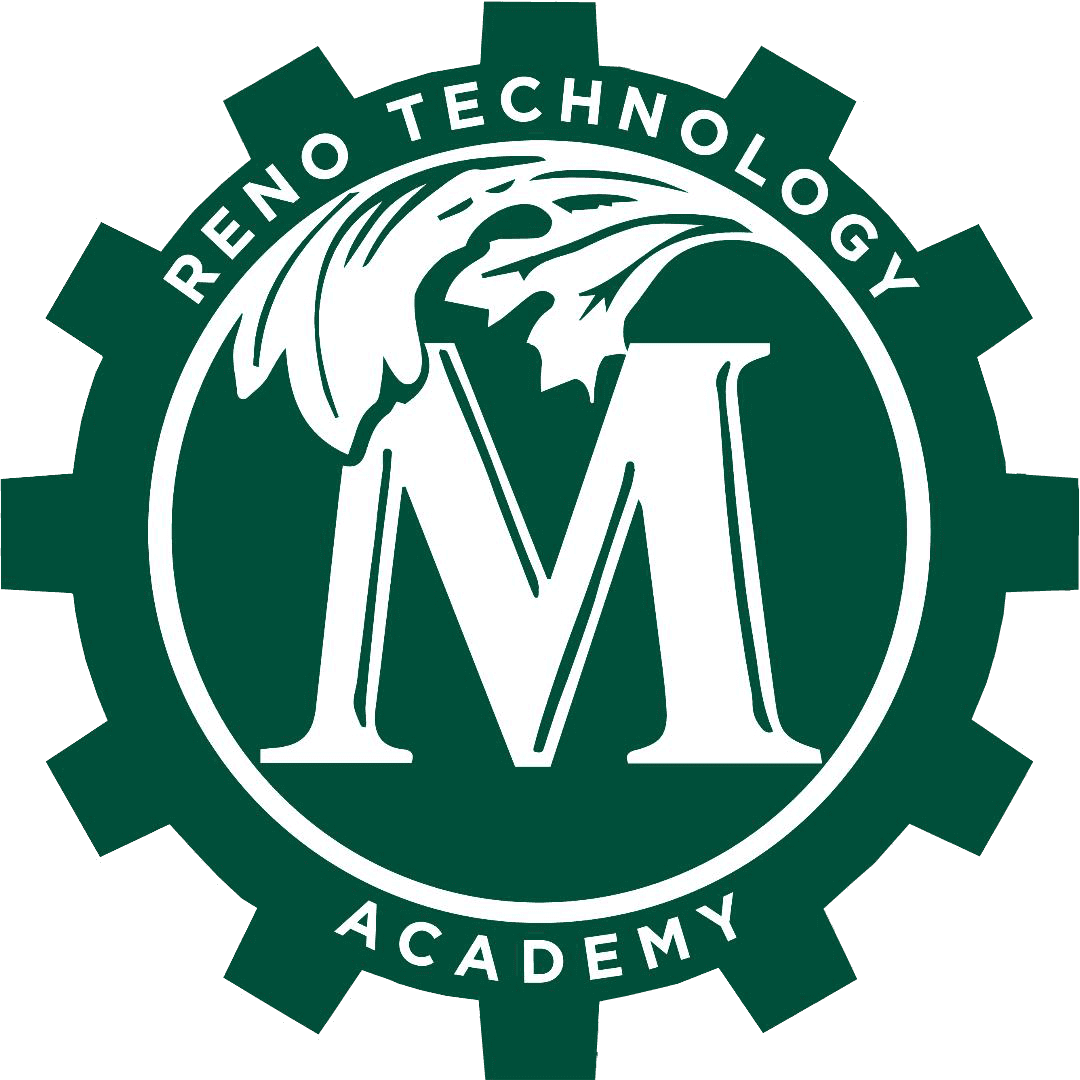
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**Reno Technology Academy**

Multnomah University Reno/Tahoe

|  |  |
| --- | --- |
| **Class** | **CIS104: Coding in Python (3 credits)** |
| **Instructor** | Lindsay Spencer [lindsay.spencer@renotechnology.academy](mailto:lindsay.spencer@renotechnology.academy)  775-342-9816 |
| **Term** | Spring 2019 |
| **Class Time/Location** | Tuesdays, Room 203  6:00 – 9:00 PM |
| **Course Description** | This course will teach students how to use Python 3. The student will learn to Install and set up the Python environment, as well as, creating well designed scripts and projects. Installing Python for PC and Mac will be covered. Students will be taught how to understand variables, objects and whitespace in Python. Students will learn how to use functions, variables, and loops, to produce real life projects. |
| **Corequisite** | CIS108: Introduction to Software Development |
| **Objectives** | * Use Python data types, including numbers, strings, lists, tuples, dictionaries. * Identify object types in Python. * Use Python operators, string, number, etc. * Design, structure, test Python Programs. * Use control statements in Python Programs. * Understand and write Python functions. * File I/O * Python object-oriented programs. * Python class inheritance. * Error handling in Python applications. |
| **Required Textbook(s)** | Lutz, Mark, ***Learning Python (5th Edition)***, 2013.  ISBN: 9781449355739 |
| **Optional Textbook(s)** | Downey, Allen B., ***Think Python 2e***, 2013.  <https://greenteapress.com/wp/think-python-2e/> (free to download) |

# Grading Distribution

|  |  |
| --- | --- |
|  | **Weight** |
| Lab Assignments/Homework | 30% |
| Term Project | 30% |
| Mid-Term Exam | 20% |
| Final Exam | 20% |

# Grading Scale

|  |  |  |
| --- | --- | --- |
| **Letter Grade** | **Percent** |  |
| A+ | 97-100 |  |
| A | 93-96 |  |
| A- | 90-92 |  |
| B+ | 87-89 |  |
| B | 83-86 |  |
| B- | 80-82 |  |
| C+ | 77-79 |  |
| C | 73-76 |  |
| C- | 70-72 |  |
| D+ | 67-69 |  |
| D | 63-66 |  |
| D- | 60-62 |  |
| F | 0-59 |  |

# Grading Rubric

All laboratories and projects for this course will be evaluated against the following grading rubrics for the purposes of assigning points and a grade:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Excellent** | **Good** | **Fair** | **Poor** |
| **Program Execution** | Program compiles without error and executes correctly. | Program executes with a minor and easily correctable error. | Program executes with major errors. | Program does not execute. |
| **Correct Output** | Program displays correct output with no errors. | Program displays output with only minor errors. | Program displays output with numerous errors. | Program displays incorrect output. |
| **Design of Output** | Program exceeds minimum output requirements. | Program meets minimum output requirements. | Program does not meet minimum output requirements. | Program has poorly designed output. |
| **Design of Logic** | Program logic is well constructed. | Program logic has slight errors that do not affect results. | Program has significant errors in logic. | Program has incorrect logic. |
| **Standards** | Program is well structured and meets code standards. | Program has few poor design choices. | Program has poorly named variables and several inappropriate design choices. | Program is poorly written. |
| **Documentation** | Program is well documented. | Program missing only minor comments. | Program missing major comments. | Program missing most or all comments. |

# Lab Assignments

* Lab assignments are due on or before the start of the first class of the week following the assignment.
* Lab assignments should be checked-in to a new project on GitHub and a link to the project sent by the class learning management studio.

# Term Project

The term project will be discussed around week 4.

# Extra Credit

Various extra credit opportunities will be given throughout the course.

# Additional Resources

Stack Overflow <https://stackoverflow.com/>

CodeSignal <https://www.codesignal.com/>

Python Documentation <https://docs.python.org/3.7/contents.html>

Python 3 Tutorial <https://www.tutorialspoint.com/python3/index.htm>

# Certification Opportunities

**Certified Entry-Level Python Programmer Certification**

<https://pythoninstitute.org/pcep-certification-entry-level/>

**Certified Associate in Python Programming certification**

<https://pythoninstitute.org/pcap-certification-associate/>

# Academic Policies and Procedures

## Attendance Policy

This class is a highly accelerated introduction to programming concepts that are foundational to the software development track, and since this class meets only once per week, regular attendance is crucial. Each student may be excused from one (1) class without penalty. After that, each missed class will result in a 5% penalty on your final grade for the course, unless special accommodations have been made with the instructor.

## Late Work Policy

Work that is turned in late will be penalized 10% per week, up to three (3) weeks late (including quizzes and exams). After three weeks, the assignment will not be accepted for credit. If you know that you will be missing class, please consult with the instructor to arrange for accommodations and to avoid the late-work penalty.

## Requesting Assistance

If students require assistance with assignments outside of the laboratory hours, the instructor can be contacted using the email address provided on the first page of this syllabus. Before requesting assistance, please make sure to do your due diligence in trying to track down a solution to the problem you face. There are a large number of online resources at your disposal for finding the answer to your problem. If you still cannot find an answer to the problem, feel free to send an email, but please include a list of three (3) web links to online resources (forums, learning sites, etc.) that you have already consulted.

## Resources for Students with Disabilities

In keeping with the Americans with Disabilities Act, Reno Technology Academy will provide reasonable academic adjustments or accommodations necessary to afford equal opportunity and full participation in all programs for qualified students with professionally verified disabilities. A policy statement and application forms for accommodations are available from Multnomah University’s Student Services Department.

## Academic Integrity

Students are expected to pursue honesty and integrity in their academic endeavors at Reno Technology Academy. The wider community of software engineers and technology professionals tends to be open and collaborative, both features that are valued at the Reno Technology Academy. However, in an academic environment such as this, there is no substitute for individual engagement to build competent understanding of the presented material. The same principles of academic integrity found in other collegiate disciplines are expected to be followed here as well.

Academic dishonesty includes things such as:

1. Plagiarism – claiming someone else’s work as your own.

2. Duplicate submissions – submitting the same or essentially the same work in more than one course without the permission of the instructor.

3. Contributed submissions – submitting a work that is the product of more than one person.

4. Edited submissions – submitting a work that has been significantly edited by another person.

5. Giving or receiving unauthorized information prior to a quiz/examination.

6. Using unauthorized sources during a quiz/examination.