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| **Bloomsburg University** | <https://www.bloomu.edu/math_compsci_stats> | |
| 400 E 2nd St, Bloomsburg, PA 17815 | Tel: (570) 389-4500 | FAX: (570) 389-3599 |

**Syllabus**

**Course Title: Python Programming – COMPSCI 115**

**Credit Hours: 3**

**Semester: Summer 2021**

### Department: Mathematical and Digital Sciences

**Faculty**: Dr. Mahmoud Darwich, Ph.D. **E-mail**: mdarwich@bloomu.edu

**Offic**e: Ben Franklin Hall 220 **Office Phone**: (570) 389-3108

**Office Hours**: per an appointmnent

**Class Location**: ONLINE Zoom: The link is on BOLT

**Class Meeting Times**: ONLINE Zoom MTWTh 8:00 AM – 9:40 AM

### Prerequisites: None

**Textbooks**: Python Fundamentals, 1st Edition

Publisher: Cengage

ISBN-13: 978-0-357-42179-6

Introduction to Programming Using Python

Publisher: Pearson

ISBN-13: 978-0-13-274718-9

Murach’s Python Programming

Publisher: Murach

ISBN-13: 978-1-890774-97-4

**Software Tool**

For this course, the students need to python3 and PyCharm CE software. Cengage MindTap has its IDE platform to run python codes

<https://www.python.org/downloads/>

<https://www.jetbrains.com/pycharm/download/>

**Course Description**

This course introduces the Python programming language. Students will use Python to perform numerical and text-oriented calculations, write data-manipulation programs, and script computer operations. Hands-on activities include writing and running console-mode programs, inspecting data files, and graphing of data.

##### The following schedule of the course content is tentative and subjected to change

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| **Weeks** | **Modules** | **Lab** | **Quizzes** |
| 1,2 | Introducing Python, Data Types | Lab Module 1,  Lab Module 2 | Quiz 1, Quiz 2 |
| 3 | Control Statements | Lab Module 3 | Quiz 3 |
| 4 | Functions | Lab Module 4 | Quiz 4 |
| 5 | Lists and Tuples | Lab Module 5 | Quiz 5 |
| 6 | Dictionaries and Sets | Lab Module 6 | Quiz 6 |
| 7 | Modules, Packages, and File Operations,  Final Exam | Lab Module 7 | Quiz 7 |

***\*\*I reserve the rights to change the contents of the course\*\****

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| **COURSE OUTCOMES** | **COURSE MEASUREMENTS** |
| Students will earn depth understanding of performing numerical and text-oriented calculations. | Complete reading assignments, homework assignments, exams, and quizzes |
| Students will learn to write data-manipulation programs |
| Students will understand to script computer operations. |
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### Grading Plan

Labs 40%

Midterm Exam 20%

### Final Exam 20%

### Quizzes 20%

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Grading Scale

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| --- | --- | --- | --- | --- |
| A Range | B Range | C Range | D Range | F Range |
| A 94 – 100% | B+ 87-89% | C+ 77-79% | D+ 67-69% | F 0-59% |
| A- 90 – 93% | B 84-86% | C 74-76% | D 60-66% |  |
|  | B- 80-83% | C- 70-73% |  |  |

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**Grading Policy**

Each student must do his or her homework and case studies. Discussion among students on homework and cases is encouraged for clarification of assignments, technical details of using the software, and structuring major steps of solutions. Students must do their own work on the homework and exam. Cheating and Plagiarism are strictly forbidden. Cheating includes but is not limited to plagiarism, submission of work that is not the student's own, copying a code’s part from other students, submission or use of falsified data, unauthorized access to exam or assignment, use of unauthorized material during an exam, supplying or communicating unauthorized information for an assignment or exam.

**Missing Work**

It is expected every student to turn the assignments in **ON** time and do online quizzes and exams on the date that it is specified. Failing to comply with the policy results in automatically earning **0 points**. If classwork is missed as a result of extenuating circumstances beyond the student's control, the student communicates the need for special arrangements as soon as the need for an absence is known. The official documentation is provided to verify the reason for absence if requested by the instructor.

Extenuating circumstances may be but are not limited to: personal illness, death or critical illness in the immediate family, participation in a university-sponsored activity, participation in a short-term, obligatory military or military reserve activity, observation of a religious holiday, or civic and legal mandatory obligations.

The instructor is not required to give makeup examinations or review other class work missed as a result of unauthorized absences.

**Attendance Policy**

Students are expected to regularly attend all online classes for which they are registered. A percentage of the student’s grade will be based on class attendance and participation. Absence from class, regardless of the reason, does not relieve the student of his/her responsibility to complete all course work by the required deadlines. Furthermore, it is the student’s responsibility to obtain notes, handouts, and any other information covered when absent from class and to arrange to make up any in-class assignments or tests if permitted by me.