**Hankamer School of Business**

**Paul L. Foster Campus for Business & Innovation**

**MIS 4322/5V98: Advanced Python**

Instructor**: Mr. Johnny Bhojwani**

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**Purpose of Course:** This course is designed to enhance students understanding of the programming language, Python. After learning the fundamentals of the Python language, the true potential of the language can be realized in this course. By exploring different packages, students will gain insight as to why it is so widely used at all levels of business information systems. Topics are mostly centered around data analytics and data science. Topics that will be covered are:

* Data Visualization
* NumPy and Pandas
* PyGame
* Natural Language Processing
* Machine Learning
* Web Development using Django

This course is not designed for beginners or those that have no prior programming/coding experience. You are expected to have a thorough understanding of the fundamentals of programming in Python to be successful in this course.

**Teaching Philosophy: S**tudents are expected to come to class fully prepared by completing all designated readings, assignments and/or presentations. The class environment is expected to be one of learning, mutuality and respect. Participation is required in all class assignments including discussions and exercises. Please read textbook material prior to attending class. We rely on the textbook to provide details on course topics so that class time may be devoted to highlighting key issues, working problems, answering questions, and reviewing assignments. **Lack of having a textbook will not be an acceptable excuse for not completing an assignment, or for completing it late.**

**REQUIRED COURSE MATERIAL**

Deitel, *Intro to Python for the Computer and Data Sciences*, Pearson Education. ISBN: 978-0135404676.

Eric Matthes, *Python Crash Course, 2nd Edition*, No Starch Press. ISBN: 978-1593279288.

The hardcopy textbook may be rented/purchased from the Baylor Bookstore or online.

# Office Hours

One of the best ways to take full advantage of learning in my course is by coming to my office hours. I look forward to guiding you in your academic pursuits. Take advantage of the hours listed below or email me for an appointment.

Virtual Office Hours: Mondays 4-6 pm

Tuesdays & Thursdays 11-2 pm

Wednesdays 11-1 pm and 4-6 pm

**Requirements for in person appointment include (1) face mask (2) Social distancing (3) Open air location**

**Course Evaluation:** Students will be assigned a grade based upon their performance in each of the areas below.

|  |  |
| --- | --- |
| Grade Component | Percentage |
| Assignments (7) | 10 |
| Quizzes (2) | 15 |
| Projects (4) | 25 |
| Mid-Term | 25 |
| Final Exam | 25 |
| **TOTAL** | **100%** |

**GRADING SCALE**: Students will be assigned a final grade based on the breakdown provided below. Grades will be rounded to the nearest whole number with those at .5 and above rounded up and those below rounded down. Letter grades are then assigned respectively based upon the finalized rounded whole number average.

|  |  |
| --- | --- |
| Letter Grade | Numerical Equivalent |
| A | 93-100 |
| A- | 90-92 |
| B+ | 87-89 |
| B | 83-86 |
| B- | 80-82 |
| C+ | 77-79 |
| C | 70-76 |
| D+ | 67-69 |
| D | 60-66 |
| F | 59 and below |

**FINAL GRADE CHANGE ALLOWANCE** – Final course grade is rounded up. If you are **eligible** and would like to be considered for an allowance, a **2 page paper** (topic will be given at the time of eligibility) will be required. To be eligible, your course grade has to be close to the rounding that would change your letter grade. For example, if your final course grade (after finals) is 89.4 (B), you are eligible for an allowance. After you turn in your paper, you will be considered for a final grade change to 90 (A).

**LETTERS OF REFERENCE:** I am happy to be a reference for you in your graduate school applications and/or job applications. I do, however, have some requirements. I will do a maximum of 3 letters of recommendations per student. In order to recommend you, I have to get to know you. This means speaking up in class, turning in all your work on time, actively participating in all class activities and making office visits. You are not required to do these things, but my recommendation will only reflect what I know of you and may not be in your favor if I don’t have enough contact with you.

**Student Participation in Team Assignments:** It is expected that all students will contribute their fair weight to any team assignments. Furthermore, team members are expected to make themselves reasonably available for team meetings/gatherings. If you cannot make a meeting, it is your responsibility to inform your peers that you will be unable to attend. If your team is having a significant problem with a team member that you, as a group, are unable to resolve, then you need to submit a written report to me and I’ll take the appropriate action which could lead to a reduced grade. Please make every effort to inform me as soon as possible regarding such problems. **Peer evaluations are a part of your final personal group assignment grade**. **Make every effort to participate at every level!**

**Spring 2021 Attendance**

Given attendance may continue to be a challenge this spring due to COVID-19 and there are no clear means to confirm the reason for absences, we will continue to suspend our adherence to the policy of requiring 75% attendance to avoid a failing grade for face-to-face and hybrid courses. However, attendance should be recorded to ensure compliance with federal financial aid regulations and to complete progress reports. The 75% attendance policy is still in effect for synchronous online courses.

Face-to-face class sessions should include content that is essential for assessments and has added value (e.g., opportunities to ask questions, receive feedback, or work problems). Students missing class due to COVID-19 (positive test or quarantined) will need to be provided access to live virtual sessions and/or recorded sessions. Following are syllabus inserts for your use depending on modality of instruction.

*Syllabus inserts:*

**Face-to-Face and Hybrid Classes:**

According to the attendance policy of the Hankamer School of Business, “to earn academic credit in a particular course, a student must be officially enrolled in that course by the end of the second full week of the semester and must attend at least 75 percent of all class sessions for that course.” This expectation of the Hankamer School of Business should continue to guide your thinking this spring as with regard to absences in general and absences related to COVID-19 in particular. However, during this unprecedented time of a global pandemic, class attendance must be approached differently from the way it would in a standard semester. If you are sick or have any symptoms (even if they are slight) that might relate to COVID-19, please stay home to protect yourself, your classmates, and your professors. To be excused you must notify me prior to class if you will be missing for COVID-19 or any other health-related reason. Importantly, Baylor’s Health Services department on the Waco campus no longer provides notes to ‘excuse’ students from missed classes. Please do not ask Health Services for such documentation.

As your instructor, I will expect that you work with me to enable you to receive any necessary course content (including classroom lectures) and complete any assignments, quizzes, or exams that you may miss due to being sick or COVID-19-related circumstances. If you are well, have no symptoms, and are not required to remain at home for any COVID-19 or other health-related reason, you should attend class and abide by all of the University’s health protocols. Attendance during this time will be recorded to comply with federal guidelines and to monitor progress, yet it may take many forms due to the various course formats being offered. Be sure to pay careful attention to the additional instructions that describe how attendance and class participation will be incorporated into my course.

**Online Synchronous Classes:**

According to the attendance policy of the Hankamer School of Business, “to earn academic credit in a particular course, a student must be officially enrolled in that course by the end of the second full week of the semester and must attend at least 75 percent of all class sessions for that course.” If you miss an excessive number of classes not related to COVID-19, no concessions will be made and you will receive the grade earned in the course according to guidelines established in the syllabus and the Hankamer School of Business Attendance Policy.

Absences related to COVID-19 will be excused. A student who is enrolled in an online synchronous class and tests positive for COVID-19 may request that due dates for course deliverables be extended provided that the instructor is notified in a timely manner, no later than 24 hours of the class session that was missed. If absences due to confirmed COVID-19 reasons exist for an extended period of time and/or too many assignments or tests are missed that make it impossible to successfully complete the course, I will ask you to schedule a conference to discuss your academic performance in the class. Be sure to pay careful attention to any additional instructions that describe how attendance and class participation will be incorporated into my course.

**CLASS FORMAT CONVERSION:** Due to the COVID-19 pandemic, this course may need to be converted to an online format at some point in the semester. I have anticipated this possibility as I have prepared for the course and will provide necessary information for you in that event.

**FACE COVERINGS:** Baylor University is committed to providing a safe educational environment for all students, faculty, and staff.  In order to create the healthiest environment possible, students and instructors must properly wear face coverings over their mouths and noses while in Baylor buildings and while in the classroom.  In addition, social distancing should be maintained within all classroom environments.

**Any student who does not bring a face covering or refuses to wear one will be dismissed from class and be considered absent.  If a student who is not wearing a face covering refuses to leave class, the instructor may dismiss in-person class for that day.  Such a student will be subject to disciplinary action through the Student Code of Conduct.**

**Grading Appeals:** After your exam has been returned, you have 7 days from the day the return date to appeal your grade. To do this, please submit a statement in writing that outlines the question(s) you’d like me to re-grade along with any rationale for the answer you gave on the exam. Please note that I reserve the right to re-grade other parts of the exam which could potentially result in a lower grade.

**Completed Work:** Please save all completed tests, assignments, presentations and any other graded work returned to you by the instructor. You should save this material until you’ve received your final end of semester grade as “back-up” should there be any grade-related issues.

**BAYLOR UNIVERSITY HONOR SYSTEM**

Ethics are an integral feature of all personal, social, and professional considerations. If you haven’t already done so, please familiarize yourself with the Baylor University Honor Code Policy and Procedures at: <http://www.baylor.edu/honorcode/index.php?id=44060>

**TITLE IX OFFICE**

Baylor University does not tolerate unlawful harassment or discrimination on the basis of sex, gender, race, color, disability, national origin, ancestry, age (over 40), citizenship, genetic information or the refusal to submit to a genetic test, past, current, or prospective service in the uniformed services, or any other characteristic protected under applicable federal, Texas, or local law (collectively referred to as Protected Characteristics).

If you or someone you know would like help related to an experience involving:

1. Sexual or gender-based harassment, sexual assault, sexual exploitation, stalking, intimate partner violence, or retaliation for reporting one of these types of prohibited conduct, please visit [www.baylor.edu/titleix](http://www.baylor.edu/titleix), or contact us at (254) 710-8454, or [TitleIX\_Coordinator@baylor.edu](mailto:TitleIX_Coordinator@baylor.edu).
2. Harassment (excluding those issues listed in #1) or adverse action based on Protected Characteristics, please visit [www.baylor.edu/equity](http://www.baylor.edu/equity), or contact us at (254) 710-7100 or [Equity@baylor.edu](mailto:Equity@baylor.edu).