

CIS 2266: Python for Data Analytics  
Credit Type – Proficiency



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| <b>Course Description and Learning Outcomes:</b>  |
| <a href="https://www.sinclair.edu/course/params/subject/CIS/courseNo/2266/">https://www.sinclair.edu/course/params/subject/CIS/courseNo/2266/</a>   |
| <b>Faculty Pathway Specialist(s)</b> (Please include name and email):   |
| Jeff Sommer   <a href="mailto:jeffery.sommer@sinclair.edu">jeffery.sommer@sinclair.edu</a>  |
| <b>Resources Needed to Offer Course</b> (software, equipment, books [include ISBN and edition], etc. – please include any associated costs):  |
| A. <b>Required Textbook(s)</b> (name, version, ISBN): (1) Python for Everybody Exploring Data Using Python 3 By: Charles R. Severance Pub. Date: 2009, 2015. 1016 and (2) Python Data Analytics: Data Analysis and Science Using Pandas, matplotlib, and the Python Programming Language By: Fabio Nelli Publisher: Apress Pub. Date: August 22, 2015 Print ISBN-13: 978-1-4842-0959-2. <b>One is OER and other free access via Sinclair Library / Safari Book access. PDFs of all needed chapters is provided in the course shell.</b> |
| B. <b>Required Equipment and Cost Details</b> (software, lab equipment such as specific machines, tools, instruments):  |
| (1) Students need to install Python Anaconda Individual Edition (Free)<br><a href="https://www.anaconda.com/products/individual">https://www.anaconda.com/products/individual</a>   |
| (2) Chrome, Firefox or Safari for Jupyter Notebook  |
| (3) Basic computer requirements for all online courses - <a href="http://sinclair.edu/locations/online/computer-support/">sinclair.edu/locations/online/computer-support/</a>   |
| (4) Microphone if presentations are to be uploaded as videos  |
| <b>What is the ideal format for course delivery – in person, online or blended? To what extent could this course be offered online if necessary?</b>  |
| Two face-to face meetings per week recommended. Course can be taught fully online if needed.  |
| <b>How is the final grade for the course determined?</b> (Please list all required assignments, assessments, etc.)  |
| Labs (dropbox), projects and discussions. Dropbox assignments (14), Discussions (3), Midterm Project (1), Project – Research Report (1), Project – Research Presentation (1). Specific rubrics are used in the course for scoring.  |
| <b>Who is responsible for grading the required assignments and/or assessments?</b> (faculty or instructor?)   |
| High School instructor – instructor must post grades for assessment(s) in eLearn.   |
| <b>What is the grading scale for the course?</b>  |
| Letter grade and “round up to next grade policy” - 680 points mapped to A/B/C/D/F. Incomplete/unfinished assignments are given a zero.  |
| <b>Must students access the eLearn shell regularly to complete requirements?</b>  |
| Yes, students must log in and utilize content in eLearn, submit assignments through eLearn, and post in discussion forums through eLearn.   |
| <b>Does the course require access to YouTube, GoogleDrive, etc.?</b>  |
| Course requires access to YouTube, and the ability to save documents to a hard drive or thumb drive   |
| <b>Most common (or popular) degrees this course is in?</b>  |
| See next page.  |

| Program Code                         | Program Name                                    |
|--------------------------------------|---|
| ☐ CIS-2266 Python for Data Analytics |   |
| CETT.S.AAS                           | Internet of Things (IoT) Cyber Technician       |
| CS.S.AS                              | Computer Science                                |
| DATA.S.AAS                           | Data Analytics                                  |
| DF.S.STC                             | Data Fundamentals                               |
| FTPA1.S.STC                          | Fast Track Programming                          |
| GST.S.AAS                            | Geospatial Technology                           |
| UAS.S.BAS                            | Unmanned Aerial Systems (UAS)                   |
| UASAI.S.STC                          | Artificial Intelligence (AI)/Autonomous Systems |