

CIS 2266: Python for Data Analytics  
Credit Type – Proficiency



<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):
Aparna Komal Ramanathan   <a href="mailto:aparna.komalramanath@sinclair.edu">aparna.komalramanath@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) <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