

**Department of Computer and Electrical Engineering  
and Computer Science  
Florida Atlantic University  
Course Syllabus**

<b>1. Course title/number, number of credit hours</b>	
COP1034C Computer Programming Languages for Everyone	Credit hours: 3
<b>2. Course prerequisites, corequisites, and where the course fits in the program of study</b>	
<b>3. Course logistics</b>	
Term: Fall 2020	
<b>4. Instructor contact information</b>	
<i>Instructor's name</i> <i>Office address</i> <i>Office Hours</i> <i>Contact telephone number</i> <i>Email address</i>	TBA
<b>5. TA contact information</b>	
<i>TA's name</i> <i>Office address</i> <i>Office Hours</i> <i>Contact telephone number</i> <i>Email address</i>	TBA
<b>6. Course description</b>	
<p>This course introduces students from all majors to computational thinking and the art of computer programming using Excel and Python. No prior programming background is required. This is a General Education course.</p>	
<b>7. Course objectives/student learning outcomes/program outcomes</b>	
<i>Course objectives</i>	<ol style="list-style-type: none"> <li>1. Ability to apply basic programming concepts.</li> <li>2. Ability to write small programs employing basic programming constructs, such as primitive data types and literals, operations, expressions and statements, logical decisions, and loops.</li> <li>3. Ability to solve computational problems by reducing them into multiple algorithms using fundamental design techniques, such as abstraction and program decomposition.</li> </ol>
<i>Student learning outcomes &amp; relationship to University missions</i>	<ol style="list-style-type: none"> <li>1. Utilize computers as a means to apply mathematical theories and equations to solve simple and complex issues associated with non-engineering majors.</li> <li>2. Determine and apply appropriate mathematical and computational models and methods to everyday problems by employing basic programming constructs, such as primitive data types, operations, expressions and statements, logic decisions, and loops.</li> </ol>

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	3. Display quantitative literacy by developing fundamental designs and techniques to teach students how to reduce problems into computational algorithms.
<b>8. Course evaluation method</b>	
Programming homework -	30 %
Quizzes -	10 %
Midterm Examination -	20 %
Final Examination -	20 %
Projects -	15 %
Participation -	5 %
<b>9. Course grading scale</b>	
Grading Scale: 90 and above: "A", 87-89: "A-", 83-86: "B+", 80-82: "B", 77-79: "B-", 73-76: "C+", 70-72: "C", 67-69: "C-", 63-66: "D+", 60-62: "D", 51-59: "D-", 50 and below: "F."	
<b>10. Policy on makeup tests, late work, and incompletes</b>	
No makeup tests will be given, except with documentation from a Doctor. Late assignments will only be accepted and graded, if excused by me. Blackboard will allow you to submit an assignment after the due date and time. However, Blackboard will mark a late assignment late. Incomplete grades will only be given if the student is passing the class and has proper documentation for the reason of the incomplete.	
<b>11. Special course requirements</b>	
None	
<b>12. Classroom etiquette policy</b>	
University policy requires that in order to enhance and maintain a productive atmosphere for education, personal communication devices, such as cellular phones and laptops, are to be disabled in class sessions.	
<b>13. Attendance policy statement</b>	
Students are expected to attend all of their scheduled University classes and to satisfy all academic objectives as outlined by the instructor. The effect of absences upon grades is determined by the instructor, and the University reserves the right to deal at any time with individual cases of non-attendance. Students are responsible for arranging to make up work missed because of legitimate class absence, such as illness, family emergencies, military obligation, court-imposed legal obligations or participation in University-approved activities. Examples of University-approved reasons for absences include participating on an athletic or scholastic team, musical and theatrical performances and debate activities. It is the student's responsibility to give the instructor notice prior to any anticipated absences and within a reasonable amount of time after an unanticipated absence, ordinarily by the next scheduled class meeting. Instructors must allow each student who is absent for a University-approved reason the opportunity to make up work missed without any reduction in the student's final course grade as a direct result of such absence.	
<b>14. Disability policy statement</b>	
In compliance with the Americans with Disabilities Act Amendments Act (ADAAA), students who require	

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<p>reasonable accommodations due to a disability to properly execute coursework must register with Student Accessibility Services (SAS) and follow all SAS procedures. SAS has offices across three of FAU's campuses – Boca Raton, Davie and Jupiter – however disability services are available for students on all campuses. For more information, please visit the SAS website at <a href="http://www.fau.edu/sas/">www.fau.edu/sas/</a></p>
<b>15. Counseling and Psychological Services (CAPS) Center</b>
<p>Life as a university student can be challenging physically, mentally and emotionally. Students who find stress negatively affecting their ability to achieve academic or personal goals may wish to consider utilizing FAU's Counseling and Psychological Services (CAPS) Center. CAPS provides FAU students a range of services – individual counseling, support meetings, and psychiatric services, to name a few – offered to help improve and maintain emotional well-being. For more information, go to <a href="http://www.fau.edu/counseling/">http://www.fau.edu/counseling/</a></p>
<b>16. Code of Academic Integrity Policy Statement</b>
<p>Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards, because it interferes with the university mission to provide a high quality education in which no student enjoys an unfair advantage over any other. Academic dishonesty is also destructive of the university community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. For more information, see <a href="#">University Regulation 4.001</a>.</p>
<b>17. Required texts/reading</b>
<p>How to Think Like a Computer Scientist - Learning with Python: Interactive Edition, by Jeffrey Elkner, Allen B. Downey, and Chris Meyers, at <a href="http://interactivepython.org/runestone/static/thinkcspy/index.html">http://interactivepython.org/runestone/static/thinkcspy/index.html</a></p>
<b>18. Supplementary/recommended readings</b>
<p>None</p>
<b>19. Course topical outline:</b>
<p><b>Brief list of topics that may be covered:</b></p> <ol style="list-style-type: none"><li>1. Overview of Computer Systems and Programming Concepts (week 1)</li><li>2. Excel for Data Analysis (weeks 2 and 3)</li><li>3. Python Data Types and Debugging Techniques (week 4)</li><li>4. Python Turtle Graphics (week 5)</li><li>5. Functions (week 6)</li><li>6. Selection and Iteration Statements (week 7)</li><li>7. Strings (week 8)</li><li>8. Lists and Files (weeks 9 and 10)</li><li>9. Dictionaries and Exceptions (week 11)</li><li>10. Basics of Image Processing (weeks 12 and 13)</li><li>11. Laboratory Projects (weeks 14 and 15)</li></ol>