**SYLLABUS - COP 1000 – INTRODUCTION TO COMPUTER PROGRAMMING - TERM 500**

**INSTRUCTOR:**

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Instructor Course Page : http://www.spcollege.edu/instructors/id/hamilton.shane

**ACADEMIC DEPARTMENT:**

Department: College of Computer & Information Technology (CCIT)

Dean: Dr. Sharon R. Setterlind

Office Location: St Petersburg/Gibbs – TE116C

Office Telephone Number: 727-341-4724

**COURSE INFORMATION:**

**Course Description**

This course is an introduction to computer programming. Students will solve programming problems by coding programs that input and process data and generate output. Solutions to programming problems will require coding decision structures, repetition structures, and custom functions. Some programs will require creating and reading text files and working with lists. Additional topics include an overview of how computers work, the Internet, binary numbers, and hexadecimal numbers. 47 contact hours.

**Major Learning Outcomes**

1. The student will use pseudocode and/or flowcharts to plan computer programs.
2. The student will code programs to read keyboard input, perform calculations, and generate output.
3. The student will code simple and nested decision structures that test both numeric and string data.
4. The student will code simple and nested repetition structures, accumulators, and sentinel values.
5. The student will design and code functions, generate random integers, import modules, and create modules.
6. The student will code programs that create and read text files using loops.
7. The student will write programs that create lists, process lists, and use common list functions.
8. The student will convert integers between decimal, binary, and hexadecimal notation.
9. The student will identify definitions of computer and Internet terms from given lists of terms.

The outcomes above require many individual skills and concepts. The separate skills are specified below along with instructions and references about how to acquire them. Be sure to try the book’s example programs for each skill.

**Individual Skills and Concepts (with textbook references)**

1. Use pseudocode and/or flowcharts to plan computer programs.
   1. Understand the Program Development Cycle : page 31-32
   2. Understand the task and develop steps needed to perform the task: page 32-35
      1. Pseudocode
      2. Flowcharts
2. Code programs to read keyboard input, perform calculations, and generate output.
   1. Output with the print function : page 36-39
      1. Strings and string literals
         1. Single quotes
         2. Double quotes – needed if string contains an apostrophe
         3. Triple quotes – needed if string contains double quotes and apostrophe(s)
   2. Comments : page 39
   3. Variables
      1. Variable assignment statements : page 40-43
      2. Variable naming Rules : page 43
      3. Displaying multiple variables with print function : page 45
      4. Variable re-assignment : page 45-46
      5. Numeric Data Types : page 46-47
         1. The int type
         2. The float type
      6. String variables : page 47-48
   4. Reading Keyboard Input
      1. The input function
         1. Input for Strings : page 50
         2. Input for Numbers : page 51-53
            1. The int function
            2. The float function
   5. Performing Calculations
      1. The math operators : page 54
      2. Floating-point and Integer Division : page 56
      3. Operator Precedence : page 57-58
      4. Grouping with Parentheses : page 58
      5. The Remainder Operator : page 60
      6. Converting math formulas to program statements : page 61-63
      7. Mixed Type Expressions and Type Conversions : page 63-64
      8. Breaking a long statement into multiple lines : page 64
   6. Data Output Techniques
      1. Suppressing print function newline : page 65-66
      2. Specifying an item separator : page 66
      3. Using Python escape characters : page 69
      4. Displaying multiple items with the + operator (concatenation) : page 68
      5. Formatting Numbers : page 68-73
3. The student will code simple and nested decision structures that test both numeric and string data.
   1. Code simple if decision structures with relational operators and Boolean expressions : page 81-89
   2. Code if-else decision structures with relational operators and Boolean expressions : page 90-92
   3. Write programs that use Boolean expressions with strings : page 93-96
   4. Write programs that use nested if-elif-else decision structures : page 97-101
   5. Write programs that test a series of conditions : page 101-105
   6. Code programs that use logical operators to connect multiple Boolean expressions : page 105-110
   7. Code programs with expressions that check for a range of numbers : page 110-111
   8. Code programs with Boolean variables : page 111-112
4. The student will code simple and nested repetition structures, accumulators, and sentinel values.
   1. Write programs that use while loops : page 122-129
   2. Code programs with infinite while loops : page 129
   3. Write programs that use for loops : page 130-144
      1. Using the range function with a for loop : page 132-134
      2. Using the for loop’s target variable inside the loop : page 134-138
      3. Letting the user control loop iterations : page 138-140
      4. Generating an iterable sequence ranging from highest to lowest : page 140
      5. Calculating a running total with an accumulator : page 141-143
   4. Write code using the augmented assignment operators : page 143-144
   5. Code while loops to watch for a sentinel value : page 144-146
   6. Code input validation while loops : page 147-151
   7. Write programs that have loop(s) nested inside other loops : page 152-158
5. The student will design and code functions, generate random integers, import modules, and create modules.
   1. Introduction to, and benefits of, functions in Python : page 165-167
   2. Defining and calling void functions : page 168-195
   3. Using Indentation in function blocks : page 172-173
   4. Designing a program to use functions : page 173-178
   5. Pausing a function until user presses Enter : page 178
   6. Using local variables and variable scope : page 179-181
   7. Passing arguments to functions : page 181-191
      1. The distinction between parameters and arguments : page 181-183
      2. Parameter variable scope : page 183-185
      3. Passing multiple arguments to functions : page 185-187
      4. Making changes to parameter values : page 187-189
      5. Writing functions with keyword arguments : page 189-191
   8. Global variables and global constants : page 191-195
      1. Global variables are to be avoided : see sentence after bullet list on page 193
      2. Global constants are useful and acceptable : page 193-195
   9. Writing value-returning functions : page 195-217
      1. Standard library functions, modules, and the import statement : page 195-196
      2. Generating random numbers with the random module’s randint() function : page 196-203
      3. Using the randrange(), random(), and uniform() functions : page 203-204
      4. Using random number seeds : page 204-205
      5. Writing your own value-returning functions : page 206-219
         1. How to use value-returning functions : page 208-209
         2. Returning a string : page 214
         3. Returning a Boolean value : 215-216
         4. Returning multiple values : page 216-217
         5. Using the math module functions, math.pi, and math.e.
   10. Storing functions in modules : page 220-224
6. The student will code programs that create and read text files using loops.
   1. Introduction to files, file types, filenames, and file objects : page 235-238
   2. Opening a file with the open function, file modes, file location : page 239-240
   3. Writing data to a file : page 240-242
   4. Reading data from a file : page 242-245
      1. Using the file object’s read() method : page 242-243
      2. Using the file object’s readline() method : page 243-245
   5. Concatenating a newline onto a string : page 245-246
   6. Reading a string from file and stripping the newline from it : page 246-248
   7. Appending data to a file : page 248
   8. Writing and reading numeric data : 249-252
   9. Using loops to process files : 252-272
      1. Reading a file with a while loop and detecting the end of file : page 253-255
      2. Using a for loop to read lines : page 255-259
      3. Processing Records : page 259-272
         1. Deleting records : page 270-271
7. The student will write programs that create lists, process lists, and use common list functions.
   1. Introduction to lists : page 291-293
   2. Creating lists of integers, strings, and mixed types : page 292
   3. Creating lists of integers using the list() function with the range() function : page 292-293
   4. Creating a list with the repetition operator : page 293
   5. Using a for loop to iterate over a list : page 294
   6. Indexing of list elements : page 294
   7. Getting the number of elements in a list with the len() function : page 295
   8. The mutability of lists : page 295-297
   9. Concatenating lists : 297-299

7.10 List Slicing : page 299-302

7.11 Finding elements in a list with the in operator : page 302

7.12 List methods and built-in functions : page 303-310

7.12.1 The append() method : page 303-305

7.12.2 The index() method : page 305-306

7.12.3 The insert() method : page 307

7.12.4 The sort() method : page 307-308

7.12.5 The remove() method : page 308

7.12.6 The reverse() method : page 309

7.12.7 The delete statement : page 309

7.12.8 The min() and max() functions : page 309-310

7.13 Copying Lists : page 310-312

7.13 Processing Lists : page 312-320

7.13.1 Totaling the values in a list : page 314

7.13.2 Averaging the values in a list : page 314-315

7.13.3 Passing a list as an argument to a function : page 315-316

7.13.4 Returning a list from a function : page 316-321

7.13.5 Working with lists and files : page 321-324

7.14 Two-Dimensional Lists : page 324-328

1. The student will convert integers between decimal, binary, and hexadecimal notation.
   1. Converting a given base-10, or decimal number, to both binary and hexadecimal notation.
   2. Converting a given binary number (up to 8 bits) to both decimal and hexadecimal notation.
   3. Converting a given hexadecimal number to both decimal and binary notation.

NOTE: There are numerous learning resources for the above skills in the Number Systems module.

1. The student will identify definitions of computer and Internet terms from given lists of terms.
   1. The Chapter 1 module contains a list of computer terms that will be tested by Quiz 1. Definitions of these terms can be found in Chapter 1 and in online resources supplied in the Chapter 1 module.
   2. The Chapter 6 module contains an additional topic about the Internet.
   3. This topic contains a list of Internet terms that will be tested by Quiz 2. Definitions of these terms can be found with online searches.

**REQUIRED TEXTBOOK:**

ISBN FORMAT TITLE

|  |  |  |  |
| --- | --- | --- | --- |
| 9780133582734 | Print book | STARTING OUT WITH PYTHON Edition: Third  Author: Tony Gaddis Publisher: Pearson |  |

**The textbook is needed immediately**. Wise students get it and start reading it before the course starts.

**IMPORTANT DATES:**

Course Dates: May 18 to July 9

Drop/Add: Friday, May 22

Last day to withdraw with a “W” grade: June 26

**Course Closes at 6:00pm on Thursday, July 9**

Other Dates: <http://www.spcollege.edu/calendar/>

This is an 8-­‐week course. Students are advised to set aside at least six weekly hours for reading, trying example programs, and working on assignments. Be sure to read the chapter and try the zipped examples before tackling the Python assignments.

**COURSE** **SPECIFIC** **INFORMATION:**

This is a first course in computer programming, using Python 3 as the language vehicle.

Since all programmers also require some basic computer knowledge, there are some computer topics that don’t involve writing computer programs.

The "computer concepts" part:

• Hardware and software components of a computer, and how they work.

• The Internet and how it works.

• Computer Number Systems (including binary and hexadecimal). The computer programming:

• This is a study of computer programming concepts using Python 3.

• Python 3 is a free programming environment.

• Documents, videos, and examples are provided for learning Python 3.

**ATTENDANCE:**

Regular attendance is expected and will be taken at the start of every class in face-­‐to-­‐face sections. In online sections, attendance will be based on progress as determined by the instructor. Attendance is crucial to keeping pace and eventual success.

**GRADING:**

This is a 275-­‐point course, points being awarded according to the table below.

|  |  |  |
| --- | --- | --- |
| **Category** | **Details** | **Points** |
| Quiz 1 -­‐ Chapter 1 **\*** | 1 quiz @ 50 points | 50 |
| Quiz 2 -­‐ The Internet **\*** | 1 quiz @ 50 points | 50 |
| Python Programming Assignments **\*\*** | 6 programs @ 25 points | 150 |
| Numbers Test **\*** | 1 test @ 25 points | 25 |
|  | | 275 points |

**\*** One attempt only. **\*\*** A second submission is allowed to earn more points.

Grade Point Thresholds

|  |  |
| --- | --- |
| Grade A | 248 – 275 points |
| Grade B | 220 – 247 points |
| Grade C | 193 – 219 points |
| Grade D | 165 – 192 points |
| Grade F | 0 – 164 points |

**ACADEMIC** **HONESTY:**

All students are expected to abide by the SPC Honor Code, viewable at <http://www.spcollege.edu/AcademicHonesty/>

**CODE OF CONDUCT:**

In addition to the SPC Academic Honesty Policy, all students are expected to abide by this code of conduct:

* I will not share solutions to assignments unless directed to do so as part of the assessment.
* I will not take part in any activity that dishonestly enhances my own results, or dishonestly affects the results of other learners.
* I will use proper spelling, punctuation, and grammar in all course communications.
* I may engage in robust debate where appropriate to the learning experience but I will not deliberately personally attack or offend others.
* I will not use racist, sexist, homophobic, sexually explicit or abusive terms or images, or swear words or language that might be deemed offensive.
* I will not participate in, condone or encourage unlawful activity, including any breach of copyright, defamation, or contempt of court.

**COLLABORATION** **RULE:**

Students may work with other students on programming assignments, but submitted programs must be entirely the work of the submitting student. Please do not refer to course materials from previous terms.

In comments for each programming assignment, list:

• All collaborators, including SPC tutors.

• All written sources that you consulted, other than the text and course handouts from this term.

• If you had no collaborators and consulted no written sources, then write, "I worked alone."

**Homework** **without** **a** **collaboration** **statement** **will** **not** **be** **graded**. Collaboration on quizzes and tests is not allowed. If you somehow violate the collaboration policy, your best option is to tell us before we notice. Mistakes you confess are forgivable.

**HELP** **WITH** **PYTHON** **–** **STEPS** **TO** **TAKE**

Resources are in place to help you, but the first move is yours.

1. There is a Course Forum where you can ask questions about Python (or anything else about this course).

Your professor, or a classmate, will respond to help you,

2. You can email your instructor with a Python question.

3. You can seek out a tutor at a Learning Support Center. Look here: <http://www.spcollege.edu/tutoring/>

4. Your professor may also be available during office hours. Refer to your professor’s instructor page.

**Above all, take action immediately to avoid falling behind! Do not procrastinate!**

At the 60% point of the course, students who are far behind (2 assignments) might be dropped.

**SYLLABUS** **ACCEPTANCE** **POSTING:**

Students must make a posting to inform the instructor that they have read, understand, and will abide by the rules of the syllabus and all college policies.

**STUDENT** **SURVEY** **OF** **INSTRUCTION** (SSI):

The student survey of instruction is administered in courses each semester and is designed to improve the quality of instruction at St. Petersburg College. All student responses are confidential and anonymous and will be used solely for the purpose of performance improvement. The SSI will show up near the end of the course. Please complete the SSI so we can improve our offerings.

Best wishes for an enjoyable, productive course!  
Brad Yourth

**SYLLABUS ADDENDUM**

***In the event that topics listed in this addendum also appear in your syllabus, please note that you should rely on the addendum information as this information is the most current.***

**Emergency Preparedness**

*In the event that a hurricane or other disaster causes closure of St. Petersburg College facilities, you may be provided the opportunity to complete your course work online. Following the event, please visit the college web site for an announcement of the College’s plan to resume operations.*

*This syllabus is currently available online for your convenience.*

*Log in to confirm that you have access, reporting any difficulty to the SPC Student Technical Support Center at 727 341-4357 or via email at* [*Onlinehelp@spcollege.edu.*](mailto:Onlinehelp@spcollege.edu)

**IMPORTANT COLLEGE POLICY REGARDING COURSE DROP/ ADD PERIOD AND AUDIT INFORMATION**

Students **CANNOT** add a course following the 1st day the class meets prior to the second class meeting. Students **CAN** drop a course through Friday of the first week of classes and be eligible for a

refund. Except by appeal to an associate provost, students may not change from credit to audit status

after the end of the first week of classes. Online classes may be added through the standard drop/add period for that course.

**GRADING AND REPEAT COURSE POLICIES**

State policy specifies that students may not repeat courses for which a grade of “C” or higher has been earned except by appeal to an associate provost. Students may repeat a course one time without penalty. On the third attempt, students will pay the full cost of instruction. In addition to any required lab or special fees, the full cost of instruction rate for 2011-2012 is $352.29 per credit hour. In addition, on the third attempt students may NOT receive a grade of “I,” “W,” or “X,” but must receive the letter grade earned. The grade on the final last attempt with the exception of a “W” grade will be the grade that will be calculated into the overall grade point average. (Developmental courses do not average into the grade point average).

**ATTENDANCE/ACTIVE PARTICIPATION/WITHDRAWAL POLICIES**

Faculty will publish their own participation/attendance policies in their syllabi. Instructors will verify that students are in attendance during the first two weeks of class. Students classified as “No Show” for both of the first two weeks will be administratively withdrawn from any class which they are not attending. The student’s financial aid will be adjusted based on their updated enrollment status. If a student is administratively withdrawn from a class because they were a “No-Show” during the first two weeks of class, financial aid will not pay for the class and the student will be responsible for paying for that class.

Students who are not actively participating in class as defined in an instructor's syllabus will be reported to the Administration during the week following the last date to withdraw with a “W” (as posted in the academic calendar on the college’s web site). A grade of “WF” will be assigned to students who are not actively participating during the week following the last day to withdraw with a W grade.

Students will be able to withdraw themselves at any time during the term. However, requests submitted after the last date to withdraw with a “W” (see academic calendar) will result in a “WF.” Students and instructors will automatically receive an email notification through their SPC email address whenever a withdrawal occurs.

Withdrawing after the “Last Date to Withdraw with a Grade of ‘W’” can have serious consequences. If the student withdraws from a class after the deadline posted in the academic calendar, the student will receive a final grade of ‘WF,' which has the same impact on the student's GPA as a final grade of “F.” A “WF” grade also could impact the student's financial aid, requiring repayment of financial assistance. Students should consult with an academic advisor or financial assistance counselor prior to withdrawing from a class.

**FEDERAL GUIDELINES RELATED TO FINANCIAL AID AND TOTAL WITHDRAWAL FROM THE COLLEGE**

The U.S. Department of Education requires students who completely withdraw prior to the 60% point of the term and who receive Federal financial aid i.e., Federal Pell Grant, Federal Academic Competitiveness Grant (ACG), Federal Stafford Loan, and/or Federal Supplemental Educational Opportunity Grant SEOG--to repay a portion of their financial aid.

**Students considering a withdrawal from all classes before the published withdrawal date** should consult a financial assistance counselor to understand their options and the consequences of the total withdrawal. For further information regarding this policy and other financial assistance policies we encourage you to visit our website at: [**www.spcollege.edu/getfunds**](http://www.spcollege.edu/getfunds)

**COLLEGE LEVEL ACADEMIC SKILLS (CLAS) GRADUATION REQUIREMENTS**

College Level Academic Skills

**DUAL ENROLLMENT, EARLY ADMISSIONS, & EARLY COLLEGE STUDENTS**

A Dual Enrollment, Early Admissions, or Early College student may not withdraw from any college course without permission from the Early College/Dual Enrollment office. Withdrawal from a course may jeopardize the student's graduation from high school. The Dual Enrollment office can be reached at 727 712-5281 (TS), 727 791-5970 (CL) or 727

394-6000 (SE). [**www.spcollege.edu/central/de/index.htm**](http://www.spcollege.edu/central/de/index.htm)

**ACADEMIC HONESTY**

It is your responsibility to be familiar with St. Petersburg College’s Academic Honesty policies and the consequences of violations. There is no tolerance for any form of academic dishonesty. Discipline can range from a zero on a specific assignment to expulsion from the class with a grade of “F” and the possibility of expulsion from the college. Note that copying/pasting published information without citing your sources, whether the information is from your textbook or the Internet is plagiarism and violates this policy. Even if you slightly change the words from an outside source, the ideas are someone else's so you still have to cite your sources. Cheating, plagiarism, bribery, misrepresentation, conspiracy, and fabrication are defined in Board Rule 6Hx23-4.461.

Student Affairs: Academic Honesty Guidelines, Classroom Behavior.

[**www.spcollege.edu/webcentral/catalog/current/stu\_affairs\_honesty.htm**](http://www.spcollege.edu/webcentral/catalog/current/stu_affairs_honesty.htm)

Copyrighted material within this course, or posted on this course website, is used in compliance with United States Copyright Law. Under that law you may use the material for educational purposes related to the learning outcomes of this course. You may not further download, copy, alter, or distribute the material unless in accordance with copyright law or with permission of the copyright holder. For more information on copyright visit [http://www.copyright.gov.](http://www.copyright.gov/)

**STUDENT EXPECTATIONS**

All electronic devices including computers, cell phones, beepers, pagers, and related devices are to be silenced and/or turned off unless they are required for academic purposes. Any use of these devices (including texting) for non-academic purposes is a violation of College Policy and subject to disciplinary action.

Students may be required to have discussions of class assignments and share papers and other class materials with instructors and classmates via chat rooms and other mechanisms. Due to the potential piracy of students’ materials, the College is not responsible for student work posted on the Internet outside of the college’s Learning Management System.

Each student's behavior in the classroom or online is expected to contribute to a positive learning/teaching environment, respecting the rights of others and their opportunity to learn. No student has the right to interfere with the teaching/learning process, including the posting of inappropriate materials on chatroom or Web page sites.

The instructor has the authority to ask a disruptive student to leave a classroom or lab. The instructor may also delete posts or materials from an online or blended class and/or take disciplinary action if disruptive behavior continues.

**ONLINE STUDENT PARTICIPATION AND CONDUCT GUIDELINES**

The practices of courtesy and respect that apply in the on-campus classroom also apply online. Any discriminatory, derogatory, or inappropriate comments are unacceptable and subject to the same disciplinary action applied in courses offered on campus.

**EMERGENCY PREPAREDNESS**

The college website at [**www.spcollege.edu**](http://www.spcollege.edu/) is the official source of college information regarding the status of the institution. Other important information will be communicated via SPC Alert, local media outlets, and the college toll free number 866-822-3978. All decisions concerning the discontinuation of college functions, cancellation of classes, or cessation of operations rest with the President or his/her designee.

In the event that a hurricane or other natural disaster causes significant damage to St. Petersburg College facilities, you may be provided the opportunity to complete your course work online. Following the event, please visit the college Web site for an announcement of the College's plan to resume operations.

Students should familiarize themselves with the emergency procedures and evacuation routes located in the buildings they use frequently.

Located in each classroom is an Emergency Response Guide (flip-chart) that contains information for proper actions in response to emergencies. Students should be prepared to assess situations quickly and use good judgment in determining a course of action. Students should evacuate to assembly areas in an orderly manner when an alarm sounds or when directed to do so by college faculty or staff or emergency services personnel. Students may access additional emergency information by going to [**www.spcollege.edu/security**](http://www.spcollege.edu/security). In face to face courses your instructor will review the specific campus plans for emergency events.

**CAMPUS SAFETY AND SECURITY**

For information on campus safety and security policies please contact **727-791-2560**. If there are questions or concerns regarding personal safety, please contact the Provost, Associate Provost, Campus Security Officer, or Site Administrator on your campus. [**www.spcollege.edu/tsc/security.htm**](http://www.spcollege.edu/tsc/security.htm)

**SEXUAL PREDATOR INFORMATION**

Federal and State law requires a person designated as a “sexual predator or offender” to register with the Florida Department of Law Enforcement (FDLE). The FDLE is then required to notify the local law enforcement agency where the registrant resides, attends, or is employed by an institution of higher learning. Information regarding sexual predators or offenders attending or employed by an institution of higher learning may be obtained from the local law enforcement agency with jurisdiction for the particular campus by calling the FDLE hotline (1-888-FL-PREDATOR) or (1-888-357-7332), or by

visiting the FDLE website at [**http://offender.fdle.state.fl.us/offender/homepage.do**](http://offender.fdle.state.fl.us/offender/homepage.do)

**DISABILITY RESOURCES**

Disability Resources at SPC wants to help you succeed. If you have a documented disability or think that you may have learning or other disability and would like to request accommodations, please

make an appointment with the Learning Specialist on your campus. If you will need assistance during

an emergency classroom evacuation, please contact your campus learning specialist immediately about arrangements for your safety. Disability Resources staff can be reached at 791-2628 or 791-

2710 (CL and EPI), 341-4316 (SP/G), 394-6289 (SE), 712-5789 (TS), 341-3721 (HEC), 341-4532 (AC), or 341-7965 (DT). If you would like more information, you can learn more about Disability

Resources on our website: [**www.spcollege.edu/central/ossd**](http://www.spcollege.edu/central/ossd)

**COLLEGE CALENDAR**

[**www.spcollege.edu/calendar/**](http://www.spcollege.edu/calendar/)

**M.M. BENNETT LIBRARIES**

[**www.spcollege.edu/central/libonline/**](http://www.spcollege.edu/central/libonline/)

**CAREER DEVELOPMENT SERVICES**

[**www.spcollege.edu/Central/Career/OCDS/index.shtm**](http://www.spcollege.edu/Central/Career/OCDS/index.shtm)

INTERNATIONAL STUDENT SERVICES

[**www.spcollege.edu/central/international/**](http://www.spcollege.edu/central/international/)

**LEARNING SUPPORT COMMONS (Tutorial Services)**

[**www.spcollege.edu/tutoring/**](http://www.spcollege.edu/tutoring/)

**SPC VETERAN AFFAIRS**

[**www.spcollege.edu/veterans/**](http://www.spcollege.edu/veterans/)