

Object-Oriented Logic & Design

CPT-187

Spring 2025 Section W01 3 Credits 01/13/2025 to 05/05/2025 Modified 01/22/2025

Meeting Times

Class meeting times are subject to change. Contact your instructor with questions or concerns.

Internet Course: Bldg: ONL Room: ONL 01/13/2025 - 05/05/2025

Contact Information

Instructor: Beau Sanders

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Website: https://www.gvltec.edu/academics_learning/business-computer/computer_technology/index.html (https://www.gvltec.edu/academics_learning/business-computer/computer_technology/index.html)

Dean: Michelle Byrd

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Description

(3-0-3) Offered Spring Semester Prerequisites: CPT 168. IST 272 This is a study in the planning and implementation of object-oriented programs.

Requisites

Prerequisites: CPT 168 and IST 272

Materials

Murach's Python Programming, 2nd Edition

Author: Michael Urban and Joel Murach

Publisher: Mike Murach & Associates, Inc

Edition: Second Edition, Copyright 2021

ISBN: 978-1-943872-74-9

Automate the Boring Stuff with Python, 2nd Edition [selected chapters]

Author: Al Sweigart

Publisher: No Starch Press

Edition: Second Edition, Copyright November 2019

ISBN: 978-1593279929

Availability: Free Online or paperback at Amazon

Price: Free Online

This is a free online Python project book. The 3rd edition is scheduled to be released in May 2025.

<https://automatetheboringstuff.com/> (<https://automatetheboringstuff.com/>)

Additional Materials, Supplies, Equipment, and Technology (i.e. Webcams):

1. Access to an Internet-capable computer system.
2. Computer with Webcam if taking hybrid or online class.
3. NOTE: Students in traditional classes must access Blackboard for course related information.
Students in hybrid and online classes will access their online content through Blackboard.
4. Refer to Attachment 1 for any additional requirements.

Course Objectives

Course Outcomes:

Students who successfully complete this course will have demonstrated the skills required to accomplish the following objectives with a minimum competence level of 70 percent.

Course Learning Objective (CLO)

- CLO 1: Use recursion and algorithms within the Python programming environment
- CLO 2: Define and use classes and inheritance within the Python programming environment
- CLO 3: Apply proper techniques of object-oriented design
- CLO 4: Build a GUI program using the Python programming environment
- CLO 5: Integrate relational databases into Python GUI applications

The objectives of this course are intended to meet the CPT program-level student learning outcomes.

Refer to Attachment 1 of this syllabus for the Course Schedule (Plan of Instruction) for this semester.

Program Learning Outcomes

Program Student Learning Outcomes:

Upon successful completion of the Computer Technology Degree students will be able to:

1. Install and configure an array of computing devices and software.
2. Analyze and describe technological needs using appropriate industry terminology.
3. Build, maintain, and troubleshoot secure applications, systems, or networks using modern resources and tools.
4. Utilize effective customer support and problem resolution skills.
5. Apply techniques and skills learned, appropriate to the discipline, to develop systems solutions.
6. Identify the local and global impacts of computing on individuals, organizations, and society.

Grade Schema

Grade	Range	Notes
A	89.5-100	
B	79.5-89.4	
C	69.5-79.4	
D	59.5-69.4	
F	59.4 or below	

Grade Breakdown

Computer Technology students must obtain a minimum grade of "C" in all CPT and IST courses. Please refer to Departmental Policies in Blackboard to review additional course and department policies.

Criteria

Type	Weight	Topic	Notes
Assignments and Quizzes	15%		
Final Exam	10%		
Final Project	25%		
Forum Discussions	10%		
Labs	20%		
Mid-Term Exam	10%		
Participation	10%		

* Course Policies

Polices and Procedures

- Computer Technology students must obtain a minimum grade of "C" in all CPT and IST courses in order to earn credit towards a degree or certificate
- Classrooms assigned to the Computer Technology Department must be locked at all times except during scheduled
- Students may work in CPT classrooms outside of normal class schedule hours if given approval by department
- Under no circumstances should CPT classrooms be open when no one is working in the classroom; the last person leaving the classroom must close the door(s) which should automatically lock

Department Exam Policy

- Exam Policies reference Final Exams, Midterm Exams, and/or Skills Exams
- Exams must be taken as scheduled with no exemptions or exceptions
- A Comprehensive Final Exam will be given, unless otherwise stated the course syllabus
- Midterm and/or Skills Exams may be given and will be stated specifically on the course syllabus
- Exam dates will be announced in class and posted on Blackboard
- The student assumes responsibility for materials and announcements missed when absent
- Exams must be taken on or before the announced day; early exams may be arranged at the instructor's discretion; Late Exams will not be permitted

Exceptions to the Departmental Exam Policy will be made on an individual basis as a result of a decision involving the department head, instructor, student, and/or the Divisional Dean

Department Test Policy

- Test Policies reference Unit Tests, Chapters Tests, and/or Projects
- Three or more unit tests will be given, unless otherwise stated in the course syllabus
- Test dates will be announced in class and posted on Blackboard
- The student assumes responsibility for materials and announcements missed when absent
- Tests must be taken on or before the announced day; early tests may be arranged at the instructor's discretion
- Each student will be allowed one make-up test in a course (for a penalty of no more than 20%)
- Additional missed tests will result in a grade of zero for that specific
- The date and time of the make-up test will be at instructor's discretion, not to exceed seven days after the scheduled test date
- Curves and bonus options will not be allowed for any make-up test

Exceptions to the Departmental Test Policy will be made on an individual basis as a result of a decision involving the department head, instructor, student, and/or the Divisional Dean

Department Assignment Policy

- Assignment Policies reference Assignments, Quizzes, and/or Journals
- Assignment dates will be announced in class and posted on Blackboard
- The student assumes responsibility for materials and announcements missed when absent
- Late assignment will not be accepted
- Assignments makeups will not be permitted, unless otherwise stated in the course syllabus

Exceptions to the Departmental Assignment Policy will be made on an individual basis as a result of a decision involving the department head, instructor, student, and/or the Divisional Dean

Department Lab Policy

- Lab Policies reference hands-on labs, equipment labs, virtual labs, and/or group Labs
- The student assumes responsibility for materials and announcements missed when absent
- Late labs will not be accepted
- Lab makeups will not be permitted, unless otherwise stated in the course syllabus
- The date and time of the make-up labs will be at instructor's discretion

Exceptions to the Departmental Lab Policy will be made on an individual basis as a result of a decision involving the department head, instructor, student, and/or the Divisional Dean

Departmental Academic Honesty Policy for Cheating and Plagiarism

Cheating and Plagiarism will not be tolerated in any Computer Technology course. If cheating and/or plagiarism are found, the following grading penalty will be assessed:

- First Offense – A grade of zero (0) will be assessed for the assignment or test on which the offense

- Second Offense – At a minimum, the student will receive a grade of zero (0) for that portion of the course in which the additional offense

Incompletes:

An INCOMPLETE ("I") will only be approved if ALL of the following conditions exist:

- The student must have no more than 4 weeks (14-week term) or 2 weeks (7-week/10-week term) remaining to complete the
- The student must have a validated, documented reason why he/she cannot complete the course by the prescribed end date (illness, work situation, death,).
- The student must be up to date with all work up to the point of the request for an Incomplete (no untaken tests or un-submitted labs, homework, etc.), and the student must have a passing grade average (C or higher) for all work

Plan of Instruction

Course Schedule (Plan of Instruction)

Please refer to Syllabus Addendum in Blackboard to review the Tentative Course Schedule. Your instructor will provide a detailed, week-by-week plan of instruction along with method of delivery, testing, and assignment submission.

Course Outline:

CPT-187 Main Topics:

- Work with Recursion and Algorithms
- Define and use Classes
- Work with Inheritance
- Design an Object-Oriented Program
- Build a GUI (Graphic User Interface) Python program
- Work with Web Scraping
- Work with Google Spreadsheets, PDF files, and Word Documents using Python
- Work with CSV (Comma Separated Values) and JSON (JavaScript Object Notation) Data
- Sending Email and Text Messages in Python programs
- Student designed and coded Final Project

Course Schedule: <https://beausanders.org/CPT187/CPT187CourseSchedule.pdf>
(<https://beausanders.org/CPT187/CPT187CourseSchedule.pdf>).



Institutional Policies

Course Evaluations

Student input is necessary for improving instruction at GTC and is requested primarily through course evaluations. Students will be notified when evaluations are available. The College welcomes your feedback and strongly encourages each student to complete the evaluation.

Instructional Agreement

This syllabus is an agreement between the student and instructor concerning course objectives, course content, grading, and other policies and procedures particular to the course as well as any posted program, departmental, and divisional policies. It is also the student's responsibility to become familiar with the Student Handbook/College Catalog found in the Student Resources area of Blackboard.

Technology Statement

Greenville Technical College is not responsible for personal technology or Internet access. Problems with computers, devices, or Internet access are not acceptable for late work. When completing gradable coursework online, be sure to access a secure, reliable internet connection (preferably hardwired). All technical questions should be directed to [GTC Tech Support](https://www.gvltec.edu/about_greenvilletech/tech_support).
(https://www.gvltec.edu/about_greenvilletech/tech_support)

Students can access due dates for all assignments and quizzes/tests on the Course Schedule/Plan of Instruction. All graded work is time-stamped when submitted, so your instructor can check the time of submission. In addition, you will receive a confirmation email message when you submit assignments via Blackboard. You must provide this confirmation information in case of any dispute regarding the submission.

[Computer labs](https://www.gvltec.edu/student_resources/computer_labs/) (https://www.gvltec.edu/student_resources/computer_labs/) are available at multiple campus locations and offer various hours as well as staff who are available for assistance. Refer to the [Computing Facilities Use Policy](https://catalog.gvltec.edu/student-handbook/campus-safety-security/) (<https://catalog.gvltec.edu/student-handbook/campus-safety-security/>) in the student handbook.

Student should use Microsoft Office programs or PDF format for submitting assignments in Blackboard. Students can access the [Microsoft portal](http://portal.office.com/) (<http://portal.office.com/>), log in with their @my.gvltec.edu email address and Blackboard/GTC4me password, then follow the prompts to install Microsoft Office free of charge.

Students enrolled in any course, regardless of delivery method (face-to-face, online, blended), may incur additional expenses such as equipment (microphone and/or web cam) and test proctoring.

Inclusive Access

Some courses taught at Greenville Technical College are part of the **Inclusive Access (IA)** program, which is designed to reduce the cost of course materials for students. You will be able to access the digital content for these courses through **Blackboard** on the *first day* of class automatically.

If your course is part of **IA** you will receive a welcome email from Greenville Technical College Bookstore titled **Welcome to Inclusive Access at GTC!** so watch your campus inbox. This email will provide content details, content cost, and additional instructions if needed. You can find similar details about your IA course inside Blackboard and on the GTC Bookstore website here: <https://bookstore.gvltec.edu/inclusiveaccess>

Your student account will be charged for the cost of the digital course materials after the add/drop period. You will receive an email two to three business days prior to billing to inform you of the pending charges to your student account.

If you have any questions, please contact the bookstore at IAHelp@gvltec.edu

Verification of Students in Online Courses

Greenville Technical College is committed to student learning and the academic integrity of all courses. All GTC fully online courses are required to have at least one proctored learning activity that constitutes a significant percentage of the course grade, which may include a test, midterm, final exam, presentation or other assignment. Instructors teaching face-to-face and/or blended courses may also elect to use proctoring. Proctored is defined as an experience where an approved person ensures the identity of the student and monitors the learning activity. The proctored learning activity will be determined by the course instructor. The method of proctoring and any additional requirements, such as costs for students and/or trips to campus or approved testing center, will be explained in the course schedule/plan of instruction.

Students who refuse to be proctored for any proctored assignment and/or test in a fully online course will receive a grade of "F" for that course.

Virtual Proctoring Options and Respondus LockDown Browser

Greenville Technical College (GTC) requires virtual proctoring for testing in fully online courses. Virtual proctoring is also used in some blended and face-to-face courses. Respondus LockDown Browser (RLDB) and Monitor is the remote/virtual proctoring service used by GTC. RLDB with Monitor may record your webcam, your screen, or other actions during the exam session and share that information with your instructor. RLDB with Monitor will record your identity via webcam and, depending upon the exam settings controlled by individual instructors, monitor your exam attempt in various ways. A multitude of privacy provisions have been established to ensure student privacy and FERPA compliance. There are no fees associated with virtual proctoring.

Can a student test in person instead of using virtual proctoring?

Alternative testing methods may be available if students want to opt out of virtual proctoring. For courses requiring test proctoring, where you live is a determining factor in whether you will be required to test at the Barton Campus or at a local, college-approved proctor location.

- If you live within 50 miles of the Barton Campus and are enrolled in a course that requires proctored testing, you are required to take your test at GTC's Testing Center.

- If you live 50 miles or more from the Greenville Technical College (GTC) Barton Campus (main campus) and are enrolled in a class that requires proctored testing, you have the option to obtain a test proctor (exam supervisor) and proctoring site to oversee your testing in lieu of on-campus testing. You are responsible for all proctoring service fees if you choose to test at an alternate, approved testing site.

Note: Both instructor and Testing Center approval are required at the start of the semester/term if a student elects to test at ANY testing center including the GTC Testing Center. Early notification assists with a smoother process in securing the proctoring services.

To opt out of using virtual proctoring, students must utilize the following steps:

1. Students must notify their instructor and GTC's testing center at least two (2) weeks prior to a scheduled test or quiz.
2. Students must complete and submit the [Non-Local Proctoring Agreement Form](#). Keep in mind that the approval process may take 3 – 5 business days.
3. Students may take a test at GTC's testing center at the Barton Campus at no cost, or
4. Students may select a college/university as the alternative testing site, and that site will be vetted for approval by GTC. To find an established location within the United States for proctoring, please use the [National College Testing Association \(NCTA\)](#) site search. *These sites may have adjusted hours of operation; please contact before submitting request form. Students may also use Google to search for a nearby college or university.
5. Once the site is approved for testing, students will make an appointment with their approved site to take the exam.
6. Prices for proctoring services vary greatly by proctoring center. The student is responsible for all fees if they choose to test at an alternate, approved testing site.

Instructional Continuity

In the event of a disruption to the normal class schedule or planned activities for this course, alternate learning activities that may include other methods of instruction or locations may be implemented. If disruption occurs, your instructor will communicate through your GTC email (Gmail) account. Additionally, please make sure your contact information is accurate in GTC's emergency alert system (accessible in GTC4Me/Quick Access/GTC Emergency Messaging).

In the event of inclement weather, refer to the [College's website \(https://www.gvltec.edu/about_greenvilletech/administration_governance/admin_policies/inclement-weather.html\)](https://www.gvltec.edu/about_greenvilletech/administration_governance/admin_policies/inclement-weather.html) for up-to-date information.

Attendance and Administrative Withdrawals

Attendance will be taken for each class period for face-to-face meeting times. For online courses, attendance will be recorded based on activity (completion of scheduled weekly assignments and/or student participation in learning activities) from Monday through Sunday at midnight. Students who do not participate as required will be considered absent.

Students may be administratively withdrawn from this course for the following reasons:

- **NIC (Never in Class)** Not attending a course during the drop/add period including failure to meet the attendance criteria in an online course. In this case, a grade of WA will be assigned. This WA will not count as an attempt and will not affect GPA.
- **14-Day Rule:** At any time during the semester and regardless of a student's use of financial aid benefits, the college will withdraw a student who is not in attendance for 14 consecutive calendar days including weekends, holidays, college breaks, and cancelled class sessions.
 - ***Prior to the course withdrawal date***, the college policy is to assign a grade of W (Withdrawal). The student will earn no credits or grade points, and the W will not affect GPA. For students receiving financial aid, the course will count as an attempt and may affect future aid.
 - ***After the course withdrawal date***, the college will assign a grade of WF for the course which will negatively affect GPA calculation. The student will be responsible for course payment and will not be eligible for a refund. The college will notify the student of the administrative withdrawal via official college email address. For students receiving financial aid, the course will be recorded as an attempt and may affect future financial aid awards.

Students may request a reinstatement. Reinstatements must be approved by the course instructor. There is a \$75 reinstatement fee.

Dropping, Adding, and Withdrawing from Courses

Students may drop courses during the add/drop period for each courses; student may add courses during the same period only before the class actually meets. Courses dropped during this period will not appear on the transcript. Students who withdraw from a course prior to the withdrawal deadline will earn a grade of W for that course, and the W will be reflected on the transcript. Refer to the college refund policy for information concerning refunds.

Students should not assume that they will be administratively withdrawn if they stop attending classes. **It is the student's responsibility to complete the process to withdraw from a course or courses prior to the published withdrawal deadline.** Students may withdraw from any or all courses either [electronically \(https://www.gyltec.edu/admissions_aid/student_forms/AddDropWithdrawal-Form.pdf\)](https://www.gyltec.edu/admissions_aid/student_forms/AddDropWithdrawal-Form.pdf) or through the Office of Student Records. Some students such as transient and career development students must complete the withdrawal process through the Office of Student Records. Any hold on a student's account (due to fines owed or similar obligations to the college) will prevent a student from withdrawing electronically.

The dates for add, drop, and withdrawal are tied to the particular session code and class section number as well as the start and end dates for each course. For example, a student who withdraws from a first session course and adds a second session course will incur tuition charges for both courses even if they are the same course.

NOTE: Students are responsible for meeting the posted course withdrawal deadlines.

For additional information on dropping, adding, or withdrawing from a course, visit the [College website \(https://www.gyltec.edu/student_resources/student_records/add-drop.html\)](https://www.gyltec.edu/student_resources/student_records/add-drop.html).

Pass/Non Pass Grade Option

This course is eligible for the [Pass/Non-Pass Course Grade Option](#). A student must request this option no later than the last day of the course prior to the final exam. The last day of class for the term of the course, prior to the exam period. The last day of classes for the given term is published on the [GTC calendar \(https://go.activecalendar.com/gvltec/?&q=y&search=y\)](#). If approved for this option, a grade of P will be assigned if the student earns a grade of C or higher. A grade of NP will be assigned for earning a D or F. Students are encouraged to talk with their instructor and meet with an advisor prior to requesting this option. Additional information may be found in the college catalog.

Incomplete Policy

An ***Incomplete*** is defined as academic work for which unforeseeable, emergency and justifiable reasons, has not been finished at the end of the term. Emergencies and justifiable reasons do *not* include: an opportunity to raise the grade earned; a student not taking the final exam without notification to the instructor as to why; or, using the incomplete as a means to retake a portion of the course due to a non-passing grade.

Guidelines:

1. Student must have completed a vast majority of the work required for the course. Usually, the vast majority of work means at least 75% of the assignments required for grading must have been completed.
2. Student must be passing the course with a grade of C or better.
3. No incompletes will be given prior to the last day to withdraw.
4. Student must request an incomplete in writing prior to an instructor's submission of the final grade.
5. Students receiving an incomplete cannot enroll in a class for which the course receiving an "I" is required as a prerequisite until the "I" has been replaced by an applicable letter grade.
6. The incomplete may be made up no later than 90 days after the end of the term in which it was assigned, at which time, the instructor's grade shall be entered on the student's academic record.
7. The annotation on the student's transcript shall indicate the change from "I" to the grade earned.
8. A student may petition for an extension of 90 days due to unusual circumstances. Such a petition will be reviewed by the instructor whose decision shall be forwarded to the Department Head for approval.
9. The "I" will be changed to an F if all work is not completed satisfactorily by the assigned deadline.

Academic Coaching & Tutoring

Coaching and tutoring is available for students who need additional assistance. If you need help in your course, visit the [Academic Coaching & Tutoring website](#) for additional information. Free online tutoring is also available to enrolled students through [Brainfuse](#).

Students with Disabilities

Students with disabilities, including those who were served in Special Education (resource or tutorial), should contact [Student Disability Services \(http://gvltec.edu/disability-services\)](http://gvltec.edu/disability-services) (SDS) to discuss their need for services and accommodations. This process must be completed each term. The main SDS office is located on the Barton Campus in the Student Center Building 105, office 113.

Students may reach staff by phone at 864-250-8202 or via [email \(mailto:DisabilityServices@gvltec.edu\)](mailto:DisabilityServices@gvltec.edu). Appointments are available at all satellite campus locations.

The college is committed to providing materials that are accessible to all students. However, if you experience any difficulty accessing materials, please notify your instructor immediately so that we can provide a solution. You may also contact Student Disability Services directly at 864-250-8202 or via [email \(mailto:DisabilityServices@gvltec.edu\)](mailto:DisabilityServices@gvltec.edu).

Students who need a PDF reader to access course documents presented in PDF formats may download [Adobe Reader \(https://get.adobe.com/reader\)](https://get.adobe.com/reader).

Blackboard Ally

Blackboard Ally is a tool to improve students' experiences within online courses. It enables students to convert files in a course to more accessible formats such as HTML, electronic braille, audio and more. For more information, refer to [Blackboard Ally for Students \(https://www.softchalkcloud.com/lesson/serve/XVETeqkBpJlWdZ/html\)](https://www.softchalkcloud.com/lesson/serve/XVETeqkBpJlWdZ/html), located in Student Resources in the course menu.

FERPA Policy

Because Greenville Technical College abides by FERPA privacy guidelines, personal email accounts may not be used for any College-related communication. Faculty and students must use the college Gmail system only.

Legal name versus Preferred Name Use in Blackboard

A person's legal name is the name that appears on official government documents such as a birth certificate, passport, or driver's license. A preferred name is a name that a student chooses to be known by in the classroom that is different from their legal name. This might be for various reasons, including gender identity, cultural reasons, or personal preferences.

Blackboard will automatically display a student's legal name as listed in the Student Information System (SIS). However, students may choose to change their first and middle names to a preferred name in Blackboard if it does not disrupt the learning environment. Lewd, indecent, or discriminatory names may not be used. Such names will be replaced with the student's legal name. For identity verification purposes, student may not change their last name.

If a student chooses to use a preferred name, it will appear in all areas of Blackboard except for the grade center. The legal name will appear in the grade center which aligns with the legal name in the SIS. For directions on how to enter a preferred name, click on this [link](https://softchalkcloud.com/lesson/serve/ZUlnLTGDuKo8yN/html) (<https://softchalkcloud.com/lesson/serve/ZUlnLTGDuKo8yN/html>).

Title IX Policy

Greenville Technical College provides equal opportunity and affirmative action in education and employment for all qualified persons regardless of race, color, religion, sex, national origin, age, disability, sexual orientation, or veteran status.

Greenville Technical College does not discriminate against any student on the basis of pregnancy or related conditions and will comply fully with Title IX regulations.

Absences due to medical conditions relating to pregnancy and maternity leave will be excused for as long as deemed medically necessary by a student's doctor, and the student will be given the opportunity to makeup missed work. Documentation from the student's doctor is required. Students needing assistance may seek accommodations from the Title IX Coordinator or Student Disability Services. Please contact the Title IX Coordinator via [email \(mailto:TitleIX@gvltec.edu\)](mailto:TitleIX@gvltec.edu) or Student Disability Services via [email \(mailto:DisabilityServices@gvltec.edu\)](mailto:DisabilityServices@gvltec.edu) for additional information.

Non-Discrimination Policy

Greenville Technical College provides equal opportunity and affirmative action in education and employment for all qualified persons regardless of race, color, religion, sex, national origin, age, disability, sexual orientation, or veteran status.

The college complies with the provisions of Titles VI and VII of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972 and the Higher Education Amendments of 1986; Sections 503 and 504 of the Rehabilitation Act of 1973, as amended; the South Carolina Human Affairs Law of 1972; and with the Americans with Disabilities Act (ADA) of 1990 as well as the ADA Amendments of 2008 (ADAA).

For additional information on nondiscrimination policies, students should contact Student Disability Services, which coordinates Title II of the ADA/ADAA, Section 504 at 864-250-8202; Title IX Coordinator at 864-250-8144.

Assistance with Food and Housing

The faculty and staff of GTC, along with our fantastic GTC Foundation, are invested in removing barriers to your success at GTC throughout your academic career. The **STAR (Student Assistance and Resources) Center** can help if you are struggling with basic needs insecurity, such as food and toiletries, at our on-campus food pantries. We can also help connect students to resources in the community that can assist with rent and other types of assistance.

You can visit our webpage

at: https://www.gvltec.edu/student_resources/student_support/transitions/index.html to learn more.

We are located in Building 104 (UT) in Room 137A, or by calling 864-250-8003. You can also reach us at star@gvltec.edu.

Schedule

Course Schedule (Plan of Instruction)

Please refer to Syllabus Addendum in Blackboard to review the Tentative Course Schedule. Your instructor will provide a detailed, week-by-week plan of instruction via addendum along with method of delivery, testing, and assignment submission.

Date	Topic	Tasks
Unit 1	How to work with Recursion and Algorithms	Download and Read the CPT-187 Syllabus Syllabus Acknowledgment Quiz Due (A) How to work with Recursion and Algorithms Read and Study Chapter 13 Discussion Topic 1: An Introduction to the class Labs 13-1 and 13-2 Unit 1: Chapter 13 Quiz Due (A)
Unit 2	How to Define and Use your own Classes	How to Define and Use your own Classes Read and Study Chapter 14 Discussion Topic 2 Due Labs 14-1, 14-2, and 14-3 Due Unit 2: Chapter 14 Quiz Due (A)
Unit 3	How to work with Inheritance	How to work with Inheritance Read and Study Chapter 15 Discussion Topic 3 Due Labs 15-1 and 15-2 Unit 3: Chapter 15 Quiz Due (A)
Unit 4	How to Design an Object-Oriented Program	How to Design an Object-Oriented Program Read and Study Chapter 16 Discussion Topic 4 Due Lab 16-1 Due Unit 4: Chapter 16 Quiz Due (A)
Unit 5	How to work with a Database	How to Work with a Database Read and Study Chapter 17 Discussion Topic 5 Due Labs 17-1 and 17-2 Due Unit 5: Chapter 17 Quiz Due (A)

Date	Topic	Tasks
Unit 6	How to Build a GUI Program	How to Build a GUI Program Read and Study Chapter 18 Discussion Topic 6 Due Labs 18-1 and 18-2 Due Unit 6: Chapter 18 Quiz Due (A)
Unit 7	Design Student Development Project	Workshop on Student Development Project Design Topic 7 Discussion Due (A) Submit Outline for Student Development Project
Unit 8	Web Scraping	Web Scraping Read and Study Chapter 12 of Sweigart online book Discussion Topic 8 Due Projects 8-1 and 8-2 Due (A) Mid-Term Exam - Covers Units 1 through 6
Unit 9	Working with Google Spreadsheets	Working with Google Spreadsheets Read and Study Chapter 14 of Sweigart online book Discussion Topic 9 Due Projects 9-1, 9-2, and 9-3 Due (A)
Unit 10	Working with PDF and Word Documents	Working with PDF and Word Documents Read and Study Chapter 15 of Sweigart online book Discussion Topic 10 Due Project 10-1 Due (A)
Unit 11	Working with CSV Files and JSON Data	Working with CSV Files and JSON Data Read and Study Chapter 16 of Sweigart online book Discussion Topic 11 Due Projects 11-1 and 11-2 Due (A)
Unit 12	Keeping Time, Scheduling Tasks, and Launching Programs	Keeping Time, Scheduling Tasks, and Launching Programs Read and Study Chapter 17 of Sweigart online book Discussion Topic 12 Due Projects 12-1, 12-2, and 12-3 Due (A)
Unit 13	Sending Email and Text Messages	Sending Email and Text Messages Read and Study Chapter 18 of Sweigart online book Discussion Topic 13 Due Projects 13-1 and 13-2 Due (A) Submit Student Development Project Final Exam - Covers Units 7 through 13