Syllabus

Last Revised: *12/15/2023 8:40 AM*

INFO 1200 Computer Programming I for IST

🪪 Instructor Contact Information

UVU Profile ⤷ **(https://www.uvu.edu/directory/employee/?id=Y0lYTmsxam9SYTFVUnY3eUdZVjBsUT09)**

Canvas Instructor Information Page (https://uvu.instructure.com/courses/574972/pages/instructor-information)

🤝 Welcome Statement

I want to officially welcome you to INFO 1200 Computer Programming I for IST. I hope we can get to know each other as we learn how to develop modern applications using the popular language of Python. If you would like to meet with me during my virtual office hours, you can schedule a time by clicking the "**Book an Office Hour** ⤷ **(https://outlook.office365.com/owa/calendar/KodeyCrandallsOfficeHours@365.uvu.edu/bookings/)** " on

the left navigation in Canvas. These meetings will allow you to ask questions about the course and give me an opportunity to share with you some tips and tricks to stay on track and be successful.
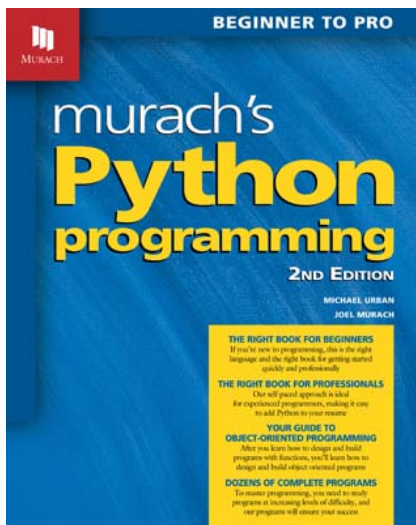
Office Hours:

Tuesdays & Thursdays 12:00 PM - 2:00 PM

Wednesdays 10:00 AM - 1:00 PM

Other: By Appointment

📖 Required Course Textbook

Murach's Python Programming (2nd Edition)

By: Michael Urban & Joel Murach

- Publisher: Murach
- Print ISBN: 978-1-943872-74-9

🎞 Course Website / Technical Support

Canvas Website: https://uvu.instructure.com/courses/563331

Technical support:

📞   phone: (801) 863-8508

✉   Email: **tcsupport@uvu.edu (mailto:tcsupport@uvu.edu)**

🏛 Location: CS 716

☰ Course Description

This course presents the concepts of modern computer programming. Initial emphasis is placed on problem-solving and algorithm development. Programming concepts such as syntax, variable creation and use, control-flow structures, program structure, and program input/output will be covered. Students will also learn about program testing, debugging, and documentation. Additionally, the course introduces the object-oriented, event-driven, and component-based programming models.

Lab access fee of $35 applies.

Prerequisite: INFO 1120 (recommended), MAT 1010 or higher

Is this a GE course? No

Is this required for the major? Yes

How does this course help the student to graduate? Fulfills requirements for Information Systems Degrees

◎   Course Outcomes

Upon successful completion of this course, students will be able to:

1. Describe how variables store data and be able to create and use variables of different data types within a program
2. Use the individual controls of a graphical user interface (GUI) correctly in a program;
3. Describe the events related to GUI controls and be able to capture them to run code;
4. Explain and use control-flow structures, such as if-else statements, for loops, while loops, and do-while loops
5. Write code to perform file input/output (I/O) in a program;
6. Describe how programs are organized into classes and methods and be able to break a problem into organized methods
7. Describe the need for collection classes and be able to implement arrays in a program for collections of data.

✔   Prerequisites and Needed Skills

Prerequisite: INFO 1120 (recommended), MAT 1010 or higher

🖥   Materials, Fees, and Technology Tools

Technology Expectations: You will need either a Windows Computer with Windows 10 installed or a Mac (the latest version of OS is recommended).

To develop Python programs, you just need to download and install Python. It includes an integrated development environment (IDE) called IDLE that you can use for coding, testing, and debugging your programs. Please refer to Appendix B of the textbook and subsequent Canvas pages to learn how to install Python for your operating system.

HINT: When you install Python, be sure to download the latest Python 3 release for your system. Although Python 2 is still available, the programs in the textbook were developed for Python 3.

Students taking INFO classes paid course fees to help defray the costs of providing you with the best computer education. These fees help pay a portion of the allocated printouts, file servers, networking infrastructure, lab computers, overhead projectors, support hardware, presentation software, lab computer software, file server software, associated software, etc.

3rd Party Privacy Policies

GitHub Privacy Policy **(https://docs.github.com/en/site-policy/privacy-policies/github-privacy-statement)**

❓ How This Course Works

Course Mode: ONLINE

This is an online course, and students are expected to participate and access course material DAILY. Students are also expected to know how to use, or learn how to use, our learning management system, CANVAS and Microsoft Teams. If you need assistance with Canvas, please go to **https://www.uvu.edu/otl/students/canvas_help_for_students.html.** **(https://www.uvu.edu/otl/students/canvas_help_for_students.html)** If you need help with Teams, please visit **https://www.uvu.edu/otl/students/index.html#studentvideos** **(https://www.uvu.edu/otl/students/index.html#studentvideos)** .

To strengthen and foster a strong learning environment, I have chosen a scaffolding learning approach. This approach allows me as an instructor to do a lot of the work with the students for the participation assignments we will complete in class, and then let students do most (if not all) of the work for the project-based assignments (Projects), also known as homework. I have found that this learning approach helps students understand what is expected before turning them loose on a project and for them to know what is expected.

Description of how the course works:

Canvas is where course content, grades, and communications will reside for this course.

I will also be recording and posting many videos to Canvas for all classmates to watch. These videos will be posted in the announcements and directly in the assignment instructions. If you cannot get access to the videos or need help, please reach out to me.

REQUIRED: If you are sick and are unable to complete any assignment, you are REQUIRED to reach out to me before an assignment is due to seek an extension! Students who reach out to me after an assignment is due will not be given an extension to the due date.

For this **three (3) credit-hour** course students should expect to spend up to **9+ hours a week** completing course activities.

Third-Party Usage

Please read about Proctorio in the Exam section of the syllabus

Student Responsibilities

- *Start class the first week of the term.*
- ***Be accountable by setting aside a regular time each week to complete course activities and assignments on time as noted per the due dates***.
- *Learn how to use Canvas including communication tools (e.g. discussion, Canvas inbox, Microsoft Teams, etc.). If you have technology-related problems contact the* **[Service Desk ⤷ (https://www.uvu.edu/servicedesk/)](https://www.uvu.edu/servicedesk/)** .
- *Abide by ethical standards. Your work must be your own.*
- *Contact your instructor as early as possible if an emergency arises.* ***Do NOT wait until the last minute to ask for an extension.***

Instructor Responsibilities:

- *Respond to emails within ONE business day. If multiple emails are received regarding the same question or concern, they may be responded to with an announcement to the entire class.*
- *Provide timely, meaningful, and constructive feedback on assignments.*
- *Facilitate an effective learning experience.*
- *Refer students to appropriate services for issues that are non-course content-specific. For instance, technical issues, writing labs, accessibility services, etc.*
- *Mentor students through the course.*

📈 Grading and Late Work Statement

Grading Scale:

The following grading standards will be used in this class:

Grading Scale

Grade	Percent	Grade	Percent
A	94-100	**C**	73-76
A-	90-93	**C-**	70-72
B+	87-89	**D+**	67-69
B	83-86	**D**	63-66
B-	80-82	**D-**	60-62
C+	77-79	**E**	0-59

Assignment Categories

Activity	**Percent**
Assignments	40%
Exams	40%
Participation	10%
Quizzes	10%

Late Work Statement: Other than exams, late work will be accepted up to a week late with a 25 percent penalty.

There are no make-up exams unless you have an approved excuse from the instructor prior to the due date.

Assignment and Assessment Descriptions

Projects (40% of your final grade)

There will be several projects in this course. Some of the projects may build upon each other. See your instructor for help if you have missed a project due date. You can usually hard code in missing project data to complete a current project. **LATE PROJECTS will have 25 percent deduction. PROJECTS LATER THAN ONE WEEK WILL NOT BE ACCEPTED.**

All projects are due at 11:59:00 PM the day they are due.

The following pseudo-code must be entered at the beginning of every class (code-behind file) in every project (Not required for participation assignments). Failure to add this following pseudo-code agreement in a project will result in a loss of documentation points.

```
#Name: (First Name Last Name)
#Class: (INFO 1200)
#Section: (X01)
#Professor: (Crandall)
#Date:
#Project #:
#I declare that the source code contained in this assignment was written solely by me.
#I understand that copying any source code, in whole or in part,
#constitutes cheating, and that I will receive a zero on this project
#if I am found in violation of this policy.
```

By putting this code at the beginning of each project, you are declaring that the project is your own work and is not copied in whole or in part. Cheating will result in a zero on that project, and the student will also be reported to the department.

Participations (10% of your final grade):

The hands-on practices and tutorials covered in class will be graded as participation. They will be submitted through Canvas, periodically throughout the semester. Most participation activities, if not all, will be done in class.

Late participation assignments will have 25 percent deducted from your score.

No participation will be accepted later than ONE WEEK late unless you have an approved excuse before the due date.

Quizzes (10% of your final grade):

Throughout the semester, there will be several quizzes to assess your understanding of the terminology presented in the textbook and lectures. All quizzes will be in Canvas and must be completed by the due date. Each quiz will cover one chapter of the textbook so the best way to prepare for a quiz is to read the chapter.

Each quiz is only five questions worth two points each and has a 15-minute time limit. If you need more time for accessibility reasons, please reach out to me the first week of class.

You will have TWO attempts for each quiz and the highest score will be kept. You will **NOT** be able to see your answers from either attempt. Additionally, you will most likely not see the same questions on a second attempt as the questions are pulled from a test bank.

There are no make-up quizzes so if you are going to miss a quiz due to an extenuating circumstance, you MUST let me know before the due date.

Exams (40% of your final grade):

There will be two exams given during the semester: a midterm and a final exam. While many of the quiz questions are simple multiple-choice questions, the exam questions will focus on a more advanced demonstration of your understanding of programming based on your work from the projects and participation assignments. You may be shown code snippets and asked to find both syntactic and logic errors, provide sample program output, and demonstrate your understanding of the program flow of execution. The best way to prepare for these types of questions is to review your projects and participation assignments.

This course uses remote testing software. Remote test-takers may choose their remote testing locations. Please note, however, that the testing software used for this may conduct a brief scan of remote test-takers' immediate surroundings, may require the use of a webcam while taking an exam, may require the microphone be on while taking an exam, or may require other practices to confirm academic honesty. Test-takers therefore shall have no expectation of privacy in their test-taking location during, or immediately preceding, remote testing. If a student strongly objects to using test-taking software, the student should contact the instructor at the beginning of the semester to determine whether alternative testing arrangements are feasible. Alternatives are not guaranteed.

Each exam will require you to use Proctorio, an online proctoring service approved by UVU. You must complete the Proctorio Agreement Quiz in Canvas so you know what is expected and required for the exams. To learn more about Proctorio, please visit **https://www.uvu.edu/otl/faculty/proctorio.html.** **(https://www.uvu.edu/otl/faculty/proctorio.html)**

(https://www.uvu.edu/otl/faculty/proctorio.html) Additionally, you will be required to take exams at home and follow these rules:

1. You must show the desktop, room, and surroundings before the exam begins.
2. You must be fully clothed.
3. No other individuals can be in the room with you.
4. You may not have help from others or use any resources (including notes, the book, calculators, etc.) on the exams.

There are no make-up exams unless you have an approved excuse before the due date. You **must complete the Proctorio Agreement Quiz in Canvas.**

✔ ABET Accreditation

The Information Systems program at UVU is accredited by the Computing Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET). In addition, the Information Systems and Technology (IS&T) Department has applied to accredit the Information Technology program. According to ABET, "accreditation is proof that a collegiate program has met certain standards necessary to produce graduates who are ready to enter their professions" (http://www.abet.org/why-accreditation-matters/).

The IS&T Department follows strict data collection, curriculum, and assessment standards to maintain ABET accreditation. To ensure both Information Systems and Information Technology programs strive to meet the standardized outcomes, the following outcomes will be addressed but not assessed in this course:

1. An ability to apply knowledge of computing and mathematics appropriate to Information Systems and Technology. [IS, IT]

📅 Course Schedule

Please see the [Schedule and Due Dates (https://uvu.instructure.com/courses/583721/pages/schedule-and-due-dates)](https://uvu.instructure.com/courses/583721/pages/schedule-and-due-dates) for all due dates.

⚖️ UVU Policies and Resources

[Policies and Success Strategies](https://greengold.uvu.edu/_crs_info_master/success.html) ▷ (https://greengold.uvu.edu/_crs_info_master/success.html)

[Accessibility Services](https://www.uvu.edu/accessibility-services/) ▷ (https://www.uvu.edu/accessibility-services/)

- Students needing accommodations due to a disability, including temporary and pregnancy accommodations, should contact Accessibility Services at **[accessibilityservices@uvu.edu (mailto:accessibilityservices@uvu.edu)](mailto:accessibilityservices@uvu.edu)** or 801-863-8747 located in LC 312. To request ASL interpreters, please contact Katie Palmer at **[kateip@uvu.edu (mailto:kateip@uvu.edu)](mailto:kateip@uvu.edu)**

[Campus Resources](https://www.uvu.edu/otl/students/campus_resources.html) ▷ (https://www.uvu.edu/otl/students/campus_resources.html)

[Academic Integrity (https://uvu.instructure.com/courses/583721/pages/academic-integrity?wrap=1)](https://uvu.instructure.com/courses/583721/pages/academic-integrity?wrap=1)

[Campus Policies (https://uvu.instructure.com/courses/583721/pages/campus-policies?wrap=1)](https://uvu.instructure.com/courses/583721/pages/campus-policies?wrap=1)

[Equity and Title IX (https://uvu.instructure.com/courses/583721/pages/equity-and-title-ix?wrap=1)](https://uvu.instructure.com/courses/583721/pages/equity-and-title-ix?wrap=1)

[Religious Accommodation (https://uvu.instructure.com/courses/583721/pages/religious-accommodation?wrap=1)](https://uvu.instructure.com/courses/583721/pages/religious-accommodation?wrap=1)

Using Remote Testing Software (https://uvu.instructure.com/courses/583721/pages/using-remote-testing-software?wrap=1)

⚑ Technology Support Services

➕ For 24/7 technical support contact **Instructure's Canvas Support Live Chat** ↪ **(https://cases.canvaslms.com/liveagentchat?chattype=student&sfid=001A00000085cNxIAI)**

📞(385) 204-4930 (Available 24/7)

⇄ Communication & Feedback

Preferred Email Contact Method: **kcrandall@uvu.edu (mailto:kcrandall@uvu.edu)** (Please include the UVUID, class, and section number in the subject)

Email Response Time:

I strive to answer email inquiries as soon as I can. You should never have to wait more than 24 hours to receive an answer to an email question. If a day passes and you have not received a reply, it would be good to contact me again in case I did not receive the original message.

Feedback on Assignments:

Assignment scores and feedback are usually posted within a day or two of the due date (weekends or holidays may delay the grading).

Requirements for Course Interaction:

All communication among students in the class and/or with the professor should be courteous and respectful. Please type in complete sentences and use appropriate capitalization and punctuation. If you have questions, it is much easier to reply with an answer if the wording of the question is specific. Please contact the professor for clarification if anything written in email messages or the assignment instructions are difficult to understand.

🎗 Academic Honesty

Academic dishonesty will not be tolerated. The penalty for a first offense is a failing grade for the assignment or test, and that assignment or test cannot be redone. The penalty for a second offense is course failure, and you will be reported to the IS&T Department Chair, the dean's office, and Student Advising. Please read the complete 'Student Rights and Responsibilities' section in the UVU Catalog. The following statements are derived from that catalog:

> "Cheating is the act of using, attempting to use, or providing others with unauthorized informat
> ion, materials, or study aids in academic work. Cheating includes, but is not limited to, passin
> g examination answers to, or taking examinations for someone else, or preparing or copying other
> s' academic work."

Cheating includes copying assignments and assessments from another student, taking screenshots of quizzes and tests, sharing copies of unauthorized screenshots, etc., or using a substantial portion of another student's work as your own work. In other words, if it appears to the professor that the work of two or more students is substantially the same, sanctions will be imposed on all parties. Even after the course is completed, sanctions may be imposed. That is, if evidence surfaces indicating academic integrity violations occurred, you may receive a failing grade on a deliverable, failing course grade, or revocation of a degree.

📢 Course Evaluations

UVU is dedicated to providing quality academic experiences for students. Help us identify areas where professors can improve their teaching by participating in the Student Ratings of Instructor (SRI). Your confidentiality is assured. Your feedback is critical to helping us improve our teaching and learning at UVU. The online SRIs will be available toward the end of the semester.

📅 General UVU Dates & Academic Schedule

https://www.uvu.edu/schedule/spring/index.html ⤷
(https://www.uvu.edu/schedule/spring/index.html)

🧑‍🤝‍🧑 Safe Zone

UVU Policy 165 defines protected classes as "race, color, religion, national origin, sex, sexual orientation, gender identity, age (40 and over), disability, veteran status, pregnancy, childbirth, or pregnancy-related conditions, genetic information, or other bases protected by applicable federal, state, or local law." Most full-time IS&T faculty and staff have received Safe Zone training that states, "regardless of gender identity, gender expression, or sexual orientation, you will be treated and respected as a human being." The IS&T Department will not tolerate bigotry and harassment.

🧑‍🤝‍🧑 Foundations of Inclusion

The UVU Foundations of Inclusion is a workshop series designed to introduce faculty, staff, and administrators to topics related to diversity and inclusion. The workshops follow an Awareness-

Understanding-Skill Development model.

Learn more here: **https://www.uvu.edu/inclusion/** ⬚ **(https://www.uvu.edu/inclusion/)**

⚓ Academic Tutoring E&T Drop-In Tutoring Lab — CS 612

This course is supported by tutors from Academic Tutoring. Tutors are students that have completed this course, and they understand the concepts well enough to help you work through questions you have. The tutoring program is certified by the College Reading & Learning Association, which means that tutors are trained to share learning and study strategies during tutorial sessions. While tutors will not complete or correct homework for you, or help you on take-home tests or quizzes, they will help you understand and reinforce concepts that you are learning in this class. For more information visit **uvu.edu/academictutoring** ⬚ **(http://uvu.edu/academictutoring)**

UVU Department of **INFORMATION SYSTEMS** *& TECHNOLOGY*
UTAH VALLEY UNIVERSITY