

College of Southern Nevada
Course Syllabus
IS115-Introduction to Programming
Fall 2020 – 8/24/2020 – 12/13/2020

NOTE: This syllabus is used for all the sections I teach. You should already know your specific section number.

Course Information - IS115 - This course introduces the student to problem-solving and algorithm development using a modern programming language. Students should have basic computer skills.

Prerequisite: MATH 95 or ET 111B or a satisfactory ACT/SAT/Placement Test score that places the student in MATH 96 or above.

Special Note: We will use the Python programming language for demonstration of a high-level programming language.

Course meeting time/days/location –

IS115-1001, 1002, 1003 – Online

IS115-3001 – Web-remote – Live meetings – Wednesday – 12:30 PM – 1:50 PM

IS115-3002 – Web-remote – Live meetings – Wednesday – 2:00 PM – 3:20 PM

Instructor Information

Name: Efatsadat (Eve) Taghva

Phone: (702) 651-4403

Office Hours/Location: Office hours conducted via the Conference option in Canvas

Tuesday: 11 am – 2 pm

Wednesday: 10 am – 12 pm

Google Voice number (talk & text) 505-652-2628

Email: Canvas Learning system – Alternate: efat.taghva@csn.edu

Web site: <https://bellagio.csn.edu/~etaghva/courses/>

Office Mailbox code: CYA 2769

Learning Outcomes - Upon completion of this course the student will be able to:

1. Describe the steps required to perform calculations and to complete tasks.
2. Translate algorithms into computer programs.
3. Create programs that process user input and produce output.
4. Code programs that use appropriate loops and decision structures.
5. Create programs that read and write files.
6. Code programs that use array processing.
7. Use generally accepted principles of good programming style and documentation.

Textbook Textbook: Prelude to Programming – concepts and design, 6th edition. Venit&Drake, Pearson – ISBN: 9780133741636.

NOTE: The textbook may be accompanied by a “bind-in access code” which is OPTIONAL and

you are not required to use it. It provides additional resources available from the author of the textbook that may be beneficial.

Textbook resources: Visit <http://goo.gl/OCLPR8>

And click on the Resources tab and look for Student Resources

NOTE: If you have the 5th edition of the book, it will be OK to use it instead of buying the new edition. If you purchase the earlier edition, let me know, so I can provide additional notes when I assign exercises from the 6th edition of the textbook. I have a copy of this book on reserve at the West Charleston library for use in the library.

Recommended - Reference book: Starting out with Python – Tony Gaddis – Fourth Edition - Pearson – ISBN: 9780134444321

The third edition of this book is also OK.

I have a copy of this book on reserve at the North Las Vegas library for use in the library.

Python - We will use a free resource from **Net Academy** for coverage of Python programming language. I'll provide login instructions as we get closer to the time where we start covering Python.

Late Work policy I do not accept late assignments, nor do I provide makeup assignments. You are responsible for your own Internet connection when working remotely. Work ahead if you know you are going to have conflicts or time constraints. Please schedule yourself accordingly. There are NO MAKEUP exams or quizzes.

Method of Evaluation - Grades are based on exams and projects assigned throughout the semester. All assignments will be submitted via the Canvas assignment dropbox. Detailed instructions will be provided in the text of the requirements for each of the assignments. If the Canvas email system fails and you must use a different system to submit your assignments, send your assignments files to my alternate email address. All exams are delivered through the Canvas system. All exams will have strict time limits and detailed information will be provided at least a week before the date of the exam.

Grade determination Your grade is based 2 exams and homework assignments.

Midterm Exam - 20%

Final Exam - 20%

Chapter quizzes - OPTIONAL

Assignments - 60%

All exams may include True/False, Multiple-choice, short answers, and essay type questions. Full details will be provided a week before the start of an exam. The following is how letter grades are assigned based on total percentages of assignments and exams.

100 - 94 A

90 - < 94 A-

87 - < 90 B+

84 - < 87 B

80 - < 84 B-

77 - < 80 C+

70 - < 77 C
60 - < 70 D
< 60 F

Attendance Policy - College assumes maturity, seriousness of purpose, and self-discipline for meeting the responsibilities associated with each course. If you will need the instructor to sign documents testifying about your attendance, **YOU** must come to the instructor after each class you attend to let her know you were there. Class participation is a strong aspect of this course and your participation is always encouraged.

Academic Integrity Taking the words of others or presenting the ideas of others as your own not only limits your academic research skills, it also violates the CSN's Student Academic Integrity Policy. Cheating on exams or other course work also violates the CSN Student Academic Integrity Policy. You can find more information about CSN's Academic Integrity Policy at <https://at.csn.edu/documents/student-academic-integrity-policy>. The minimum penalty for such offenses in this course is to fail the assignment. Failing the course will also be considered as an option. Infractions of the CSN Student Academic Integrity Policy may lead to suspensions, expulsion, transcript notations or other sanctions.

You SHOULD NOT attempt to pay anyone to complete your work. You SHOULD NOT consult any web sites that provide answers to assignments.

Disability Resource Center - The College of Southern Nevada is committed to making physical facilities and instructional programs accessible to students with disabilities. If you have a disability that may have some impact on your work in this class and for which you may require accommodations, please visit the Disability Resource Center (DRC) so that such accommodations can be considered. All discussions will remain confidential. The Disability Resource Center (DRC) has offices at all three campus locations as the focal point for coordination of services for students with disabilities. If you have a physical, emotional, or mental disability that "substantially limits one or more major life activities (including walking, seeing, hearing, speaking, breathing, learning and working)," and will require accommodation in this class, please contact the DRC at WC (702) 651-5644 , or email at WCDRCStaff@csn.edu at NLV (702) 651-4045, or email at CYDRCStaff@csn.edu and at HNC (702) 651-3795, or email at HCDRCStaff@csn.edu. For Deaf and Hard of Hearing Services contact (702) 651- 4448, or email at Deaf.HH.Services@csn.edu. Students that receive accommodation letters, please meet with me to discuss the provisions of those accommodations as soon as possible.

Disclaimer This syllabus is subject to change with advance notice. Notices will be posted in the online forum. It is your responsibility to stay informed.

Tentative schedule Please look at the end of this document for the tentative course schedule of activities.

Student Rights & Responsibilities When you choose to become a student at CSN, you accept the rights and responsibilities of membership in CSN's academic and social community. You can find policies covering students such as the Student Conduct, Students' Right to Know, Students' Academic Integrity, and Disruptive and Abusive Student in the following locations:

- Catalog and Student Handbook: <https://www.csn.edu/catalog> in the Policies and Procedures section.

CSN Website: <https://www.csn.edu/policies-procedures> under the heading “Student Policies.”

College Library Services CSN Libraries provides support for students completing assignments that require research and the use of information. Librarians are available to students for one-on-one assistance locating and citing quality information either online (<https://library.csn.edu/ask/>) or at one of our campus libraries. Find more information on our website (<https://library.csn.edu/>)

References - Safari Tech Books available through the library offer an excellent source of supplemental resources that you may use for this course.

To find Safari Books Online, go to the library’s web site at: library.csn.edu Click the Browse Databases button. In the A-Z Databases page that appears, click S to filter. The link to **Safari Books Online** should be at or near the top of the list. Initially, you will have to enter your student email address, then create an account with Safari. Subsequently, you will use your email address and your Safari password to access the Safari resources.

Required extra- or co-curricular activities All activities are based on projects and exams assigned throughout the course. Any required extra activities will be clearly explained in class.

Safety This class does not have an experiment lab and therefore we will not be concerned about following specific safety strategies.

Additional fees There are no additional fees for this course.

Additional Information

CSN Student email All students enrolled at CSN have a CSN Student Email account. Beginning February 1, 2020, all information from the college will be sent to your CSN-issued student email address (enrollment information, financial aid information, cashier information, college events, etc.). **It is extremely important that you check your student email daily.** You can access your student email through GoCSN (go.csn.edu). Once you validate your student email address you will have access to Microsoft Office 365 for up to five devices and 1TB of OneDrive storage. www.csn.edu/email

Important Note If you have any concerns about this course and/or me, please contact me first. If I cannot resolve your issue, please contact CIT Department Office at 702-651-5976. You will be directed to the appropriate Program Director or the Department Chair. You will remain anonymous, if possible, and all communications will be strictly confidential. Please DO NOT wait until the last minute to make your concerns known to me and/or to the CIT Department.

Software requirements The Canvas Learning Management system can be run on most popular web browsers such as Internet Explorer, FireFox, Safari, etc. Canvas runs on Windows, Mac, Linux, iOS, Android, or any other device with a modern web browser.

NOTE: Detailed information on installation and use will be provided in Canvas.

This course requires the use of two software products, both available as a **free download**:

Raptor - This is our flowcharting tool

<http://raptor.martincarlisle.com/> - Exclusively runs under Windows – Sorry Mac users! Might be able to use it to some extent, if you use Ubuntu. I will provide access to a Virtual Machine that you can use with any web browser. Accounts will be provided on the first day of class in Canvas

Python - This is our high-level programming language

<http://www.python.org/download/> - Available for both Mac and Windows

Printing @ CSN: Printing in CSN classrooms, computer labs and libraries falls under the new Print Wise initiative, designed to help save natural and fiscal resources. Print Wise provides each CSN student with a \$10 credit toward printing at the start of each semester, which will provide for up to 200 black and white copies at 5¢ a page, or 40 color copies at 25¢ a page. After that, you may put money into your account online or at the CSN Cashier's Office to purchase additional prints at the same rate. It is **your responsibility** to maintain your printing accounts to cover printing expenses during each semester.

Advising & Coaching Services - Advisor/Success Coaches help students assess academic strengths and limitations, learn academic success strategies, explore careers, declare a major, navigate the educational system, access campus and community resources, and connect to campus life. The department also manages the CSN Faculty E-Alert System assisting instructional staff by working with students on strategies and interventions that lead to successful course completion.

Charleston Campus	Bldg. D – Student Services Area	651-7367
North Las Vegas Campus	1100 Student Services Area	651-2626
Henderson Campus	Bldg. B – Room 120	651-3103

Counseling & Retention Services - Counselors assist students who are on: academic warning/probation/suspension and financial aid warning/suspension. Counselors prepare academic suspension and financial aid appeals. Counselors help students who are having academic challenges and those who have been referred by their instructors through the MyCoyotePLAN Early Alert program. Counselors connect students to college and community resources and help them evaluate their options to make informed decisions. For more information about Counseling & Retention Services, please visit: <https://www.csn.edu/counselingdepartment>

Additional Notes**My responsibilities:**

1. I will reply to your e-mail messages within one day. Replying to phone calls may take at most two days.
2. I will make sure to accommodate all your learning needs and will answer your questions in a timely manner.
3. I will try my best to resolve any issues.
4. I will return feedback and your grade on assignments within one week of the due date.

Your responsibilities:

1. Stay active in classroom discussions and activities. Let me know if you find any discrepancies

in the syllabus, course material, or activity due dates, as soon as possible.

2. Watch the deadlines for exams and ask questions.
3. Do the best you can in the class and don't hesitate to ask for help.
4. You will review my feedback on your assignments and will let me know of any questions or concerns as soon as possible.

Withdrawal Policy - Instructors do not have the option of withdrawing students. For official withdrawal dates and other IMPORTANT college dates, look at the online schedule at: <https://www.csn.edu/semester-calendar-dates>

You are strongly encouraged to discuss your decisions with an academic counselor, academic adviser or success coach AND Student Financial Services, because these decisions may affect your financial aid and Satisfactory Academic Progress. Any such students receiving financial aid may find their awards reduced.

If you wish to receive a W in lieu of a grade, you MUST withdraw yourself officially from the class. Once you have withdrawn (dropped), you must discontinue attending class. Alternatively, you may wish to change from Credit to Audit and continue to attend the class.

Change to Audit: Use this form (https://at.csn.edu/sites/default/files/documents/auditing_classes_form.pdf). Print the form and fill it out, check the boxes, sign and date. Submit the completed form in person at the Registrar's Office. In order to avoid visiting the registrar's office in person, you may scan or photograph the signed form and send it, using your CSN student email, along with a clear color copy of your state ID to MyCSN.Updates@csn.edu

The following dates are for 16-week sessions:

August 26 - Last day for 100% refund

September 6 - Last day for 50% refund

September 6 - Last Day to Drop a Class WITHOUT a Grade of W

October 30 - Last Day to Officially Change from Credit to Audit

October 30 - Last Day to Drop a Class WITH a Grade of W

November 26 – November 27 – Thanksgiving break

December 16 - Grades are Due from Instructors

CLASS POLICIES All exams will be taken online administered through the Canvas system. Due to the Covid-19 issues, until we are back to normal operating schedule, you will take your exam from anywhere with access to Internet.

All the course material is available online in Canvas. While the design of this course allows flexibility in your scheduling, please realize that the deadlines are just as strict as any other course. You should check the calendar and discussion postings daily and allocate your time accordingly to complete the readings and to be prepared for the exams. Due dates will be strictly adhered to. You will use the mail and discussion features of Canvas to contact me or ask questions.

A note on the online/Hybrid environment: To stay on task, I release chapter material and assignments on a timely basis. Exams can only be taken during the scheduled period. If you like to get material earlier than the rest of the class, send me an e-mail message and I will give you

access to the material. The links to assignments and exams will disappear after their respective due dates. Some students have complained that some links disappear from time to time. This is most likely due to system issues or incompatibility with your web browser. Please send an e-mail message informing me about any links that have disappeared from your view.

Online sections offer flexibility where you need to manage your time to achieve success. I will assign programming projects that will be graded, and you will have to take exams by specified due dates. **It is extremely simple to ignore due dates and fall behind which I hope we can seriously avoid!**

Hybrid section – Using the hybrid format, you attend class once a week for 80 minutes and are expected to spend another 80 minutes online. Of course, in order to succeed, you need to study much more than the usual class time of 2 hours and 50 minutes a week. The rule is that you attend class about 3 hours a week and study a minimum of 6 hours a week outside of the classroom. Programming can be time-consuming

This is a single person class; meaning that you must turn in your own work. You are not allowed to collaborate or consult with anyone else while working on an exam. You are not allowed to collaborate on completing assignments. You should not be looking at each other's code for assignments. You can freely discuss items in the general sense. Cheating in any form will not be tolerated.

Finally, Internet access is your responsibility. This class can be accessed from any computer with Internet access anywhere in the world. Therefore, excuses such as “My computer is not working” or “My provider was down” are not acceptable. If you find yourself in a real jam, you may drive to any CSN site and use one of the computers in the CSN open computer labs. Of course, if there is a computer problem originating from CSN, then I will take corrective action. But in all other instances, it is your responsibility to ensure your own Internet access.

Software Lab The **software lab** will open on **August 31, 2020**. For location/date/time information, please visit <https://at.csn.edu/cit-information> Click on Networking and Software Lab Hours

Due to Covid-19 issues, software lab may be operated virtually. Detailed information will be provided in Canvas on the first day of class.

*Students will receive notification when on-ground software lab services resume.

The CSN's Center for Academic Success provides tutorial help. USE THEM! You can find all relevant information at www.csn.edu/pages/1902.asp

Centers for Academic Success (CAS) Centers for Academic Success (CAS) provides quality DROP-IN academic assistance to all students enrolled in for-credit courses at CSN. CSN CAS Tutors are available online through Smarthinking, which is accessed in the Canvas online learning management system. View a tutorial video on how to access CSN Tutors/Learning Assistants online at [How to Access CSN Tutors in Smarthinking](#). You may choose “Submit a Question” if you don't have time for a live session. A Tutor responds to offline questions within 24 hours. Contact us at one of campus phone numbers, and we will assist you with accessing all learning support. Academic learning support includes assistance with placement test preparation, learning strategies, Canvas, Smarthinking online tutoring, Microsoft Office, reading, writing, oral

presentations, math, and science. CAS Tutors also provide support in facilitating study groups. You may experience embedded learning assistance in one of your first-year courses. Professors and CAS Staff will make you aware of how to access services as part of your course curriculum. CAS is open Monday through Sunday to be more accessible to all students – Monday – Thursday 9:00 a.m. to 6:00 p.m. and Friday – Sunday 11:00 a.m. to 4:00 p.m. Smarthinking tutors are available 24/7. You may visit www.csn.edu/centers-academic-success for more details or contact us at one of our offices during our regular operational hours: Charleston Centers (702-651-5732), North Las Vegas Learning Commons (702-651-4232), Henderson Learning Commons (702-651-3125).

*Students will receive notification as on-ground tutoring services resume.

EXCESS CREDIT FEE INFORMATION Please visit <https://www.csn.edu/excess-credit-information> for information about the excess credit fee applied in certain circumstances.

TITLE IX Resources More information is available at <https://www.csn.edu/institutional-equity>

Objectionable materials This class will use a discussion forum. Please refrain from posting any objectionable or private information in these forums. If such information is posted, I will try to immediately delete your post. Failure to comply with this policy may also lead to dismissal from the class and referral to college administration for further actions.

We will have assignments due on a regular basis. The due date for each assignment will be announced in Canvas and all assignments are delivered and submitted through Canvas. You must be diligent in checking due dates for assignments.

Additional NOTES:

Exams can only be taken during the specified dates.

Assignments – 60%
Midterm Exam – 20%
Final Exam – 20%

Here is a formula for how your final grade is calculated:

(The average of homework assignments * .6 + midterm exam * 0.2 + final exam * 0.2)

So, if Joe's average on homework assignments is 80, 75 points on exam1, and 80 points on exam 2, what is his total score? What is his overall course grade?

Answer: $(80 * .6 + 75 * .2 + 80 * .2) = 79$

Letter grade: C+

The CANVAS system's grade book will allow you to track your grade for each item.

Raptor - Required Textbook - Venit&Drake

Your textbook includes material on using the Raptor program. However, they have the word **OPTIONAL** as in: Running with Raptor (Optional) in the heading of each of the chapters. In our class, the use of Raptor is Mandatory. I hope this helps to avoid any confusion between what the book offers and what we cover in class.

Python - We will use a free resource from Net Academy for coverage of Python programming language

A tentative schedule of activities – Most assignments will have a Tuesday night, 11:59 pm deadline. Late work will be accepted by the next day with a 10% late penalty

Special NOTE: Our Canvas course includes links to Resources and Course video recordings. These links are available through the left Navigation bar when you login to Canvas.

Week	Topics	Skipped sections	Tentative Assignments & Exams due dates – SUBJECT to CHANGE
1 8/24 – 8/30	Syllabus and Introduction Overview of the Canvas Learning system Chapter 0 – Introduction Chapter 1 – An Introduction to programming	Case studies can be skipped. Of course, you are welcome to study all these sections. You just won't be responsible for the material we skip.	
2 8/31 – 9/6	Chapter 1 – An Introduction to programming Chapter 3 – Developing a program Downloading and installing the Raptor software on your computer Installation note in Canvas What about chapter 2? Skipping until the end of the term!		Assignment 1 – Syllabus Quiz Due: 9/1 Assignment 2 – Chapters 0 and 1 Due: 9/1
3 9/7 – 9/13	Chapter 4 – Selection structures: Making Decisions	4.4 – material covered on Case-Like statements. Raptor does not have the CASE statement implementation Page 224 - 243– The call symbol and subcharts – We will NOT cover this topic	Assignment 3 – Chapter 3 Due: 9/8
4 9/14 – 9/20	Chapter 5 – Repetition Structures: Looping	5.5 – Focus on programming solving	Assignment 4 – Chapter 4 Due: 9/15

5 9/21 – 9/27	Chapter 6 – More about Loops and Decisions	6.5 – Focus on Problem solving	Assignment 5 - Chapter 5 Due: 9/22
6 9/28 – 10/4	Chapter 7 – Arrays: Lists and Tables	7.4 – Two-Dimensional arrays 7.5 – Focus on problem solving	Assignment 6 - Chapter 6 Due: 9/29
7 10/5 – 10/11	Chapter 7 – Arrays: Lists and Tables		Assignment 7A - Chapter 7 Due: 10/6
8 10/12 – 10/18			Assignment 7B - Chapter 7 Due: 10/13 Midterm EXAM – Material covered up to and including chapter 7, excluding chapter 2 Taken one time between 10/15 and 10/20
9 10/19 – 10/25	Downloading and installing the Python software on your computer Installation note in Canvas Net Academy course Module 2 – Data types, variables, input/output operations Net Academy course Module 3 – Decision statements		
10 10/26 – 11/1	Net Academy course Module 3 – Repetition Structures: Looping		Assignment 8 – Python (data types, decisions) Due: 10/27
11 11/2 – 11/8	Net Academy course Module 3 – Lists and list processing		Assignment 9 - Python (loops) Due: 11/3
12 11/9 – 11/15	Net Academy course Module 3 – Lists and list processing		Assignment 10A - Python (lists) Due: 11/10
13 11/16 – 11/22	Net Academy course Module 4 – Functions		Assignment 10B - Python (lists) Due: 11/17
14 11/23 – 11/29	Thanksgiving holiday – 11/26 – 11/29 Net Academy course Module 4 – Functions		

15 11/30 – 12/6	Chapter 2 (2.1 & 2.2 only) & REVIEW		Assignment 11 – Python (functions) Due: 12/1
16 12/7 – 12/13	Final Exam – Comprehensive		Final Exam - Comprehensive exam covering all chapters concentrating on material covered after the midterm Exam Taken one time between 12/7 – 12/13

Special NOTE: CSN academic integrity policy

Academic integrity is a legitimate concern for every member of the CSN college community. By joining the CSN college community, you accept the expectation to always take the ethical path and

uphold the standards for integrity and honesty in your individual academic studies and to encourage others to do the same.

Stay out of trouble by following these rules:

Rule 1: You must not look at solutions or program codes that are not your own.

It is an act of plagiarism to submit work that is copied or derived from the work of others and submitted as your own. For example, using a solution from the Internet or a solution from another student (past or present) or some other source, in part or in whole, that is not your own work is a violation of the Academic Integrity Policy. Many infractions I see make use of solution code found online. The best way to steer clear of this possibility is not to search for online solutions to the programming assignments. Moreover, looking at someone else’s solution code in order to determine how to solve the problem yourself is also an infraction of the Academic Integrity Policy. If you are repeating a class, copying your work from that class or looking at sample solutions is considered cheating.

You should not be looking at someone else’s code in order to solve the problems in this class. This is not an appropriate way to “check your work,” “get a hint,” or “see alternative approaches.”

Rule 2: You must not share your solution code with other students.

You should not ask anyone to give you a copy of their code or, conversely, give your code to another student who asks you for it. Similarly, you should not discuss your algorithmic strategies to such an extent that you and your collaborators end up turning in the same code. Moreover, you are expected to take reasonable measures to maintain the privacy of your solutions. For example, you should not leave copies of your work on public computers nor post your solution code on a public website.

Rule 3: You must indicate on your submission any assistance you received.

If you received aid while producing your solution, you should indicate from whom you got help and what help you received. A proper citation should specifically identify the source (e.g., person’s

name, book title, website URL, etc.) and a clear indication of how this assistance influenced your work (be as specific as possible). For example, you might write “I discussed the approach used for sorting numbers in the `sort_numbers` function with Mary Smith.” If you make use of such assistance without giving proper credit, you may be guilty of plagiarism.

It is also important to make sure that the assistance you receive consists of general advice that does not cross the boundary into having someone else write the actual code or show you their code. It is fine to discuss ideas and strategies, but you should be careful to write your programs on your own, as indicated in Rules 1 and 2.

I have no desire to create a climate in which students feel as if they are under suspicion. The entire point of the Academic Integrity Policy is that we all benefit from working in an atmosphere of mutual trust. Students who deliberately take advantage of that trust, however, poison that atmosphere for everyone.