

**College of Southern Nevada
Course Syllabus**

IS115 – Sample Syllabus – Introduction to programming

The official syllabus with the official schedule of activities will be available in Canvas on the first day of class.

This syllabus should give you a good idea of the course. It has textbook information and a tentative schedule of activities.

If you're in the hybrid sections of the course, we will meet weekly in class as scheduled.

Course Information	<p>IS115 - This course introduces the student to problem-solving and algorithm development using a modern programming language. Students should have basic computer skills.</p> <p>Prerequisite: MATH 95 or ET 111B or a satisfactory ACT/SAT/Placement Test score that places the student in MATH 96 or above.</p> <p>Special Note: We will use the Python programming language for demonstration of a high level programming language.</p>
Course meeting time/days/location	<p>Look at your course schedule in MyCSN</p>
Instructor Information	<p>Name: Efatsadat (Eve) Taghva Phone: (702) 651-4403 Office: North Las Vegas campus, Telecom Building, Room 2729 efat.taghva@csn.edu A link to my Web site</p>
Learning Outcomes	<p>By the end of this course, a student will be able to:</p> <ol style="list-style-type: none"> 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	<p>Textbook: Prelude to Programming – concepts and design, 6th edition. Venit&Drake, Pearson – ISBN: 9780133741636.</p>

	<p>NOTE: The textbook may be accompanied by a “bind-in access code”. This resource is OPTIONAL and you are not required to use it. It provides additional resources available for the author of the textbook that may be beneficial.</p> <p>Textbook resources is available on the author’s web site And click on the Resources tab and look for Student Resources</p> <p>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.</p> <p>Strongly recommended - Reference book: Starting out with Python – Tony Gaddis – Fourth Edition - Pearson – ISBN: 9780134444321</p> <p>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.</p> <p>I will provide additional information on using Python via the Canvas system. “Safari Tech Books” offer many other books on Python (see my note later in this document on using the free library resources)</p>
Late Work policy	I will not accept late work, unless I extend a due date for an assignment. There are NO MAKEUP exams or assignments. All exams and assignments will have strict due dates.
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 term exams, a comprehensive final exam, and homework assignments. Exam 1 is 15% of your grade, exam 2 is 15% of your grade, the final exam is 20% of your grade, and assignments are 50% of your grade. Homework assignments also have strict due dates. All exams may include True/False, Multiple-choice, short answers, and essay type questions. The following is how letter grades are assigned based on total percentages of assignments and exams.

	<p>100 to 94 A 90 to less than 94 A- 87 to less than 90 B+ 84 to less than 87 B 80 to less than 84 B- 77 to less than 80 C+ 70 to less than 77 C 60 to less than 70 D Less than 60 F</p>
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, <u>YOU</u> 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	Scholastic dishonesty will not be tolerated. You are expected to have read and understood the CSN Academic Integrity Policy . CSN demands a high level of academic behavior. Acts of academic dishonesty including plagiarism and cheating are regarded as very serious offenses. If academic dishonesty is discovered in this class, the student will receive a grade of "F" for the class.
Disability Resource Center	If you have a documented disability that may require assistance, you will need to contact the Disability Resource Center (DRC) for coordination of your academic accommodations. The DRC is in Student Services on each major campus. More information about the CSN DRC please visit the DRC web site . For more CSN Americans with Disabilities Act (ADA) information please visit the ADA web site .
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	It is your responsibility to be aware of your rights and responsibilities. This information is in the General Catalog and Student Handbook, which can be found on the CSN Catalog/Schedule/Calendar web page .
College Library Services	The Library offers a wealth of resources to help you with your research projects. There are libraries at each of the main campuses and an extensive collection of resources available from the Library's Homepage . A note from your library: The library holds many workshops such as "College Library Services offers ongoing research workshops throughout the semester. Bring your topic or assignment to one of The workshops on the basics of locating and citing quality information and receive in depth assistance with a librarian. Check out the schedule or call 651-5729 for more information.

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 Click the 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.
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	
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 Arlene Menezes in the 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	<p>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. For more information, see Canvas's user guide.</p> <p>NOTE: Detailed information on installation and use will be provided in Canvas.</p> <p>This course requires the use of two software products, both available as a free download:</p> <p>Raptor download web site Raptor runs exclusively under Windows – Sorry Mac users! You might be able to use it to some extent, if you use Ubuntu. I will provide access to ab virtual machine accessible through a web browser that eliminates the need for Mac users trying to install Raptor. More information is provided in Canvas during the first week of class.</p> <p>Python download web site Python is available for both Mac and Windows</p>
 <p>The logo features a green tree with a white flower on top, set against a background of green leaves. Below the tree, the text 'PRINT WISE SAVE GREEN' is written in a stylized, green font. Underneath that, in a smaller font, it says 'Helping you and your organization save money and the environment'.</p>	<p>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. More information about the Print Wise</p>

	system may be found at https://at.csn.edu/printwise
Advising & Coaching Services	<p>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.</p> <p>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</p>
Counseling	<p>Academic Counseling: If you are a new student or have not declared your major, you will meet with a CSN success coach for all your advising needs, including course planning and career exploration services. Success coaches are located in student services areas and their contact information is available at Advising web site</p> <p>Students with DECLARED majors go to Advising web site for instructions for scheduling an appointment with an academic counselor.</p>
Additional Notes	<p>My responsibilities:</p> <ol style="list-style-type: none"> 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. <p>Your responsibilities:</p> <ol style="list-style-type: none"> 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 - IMPORTANT DATES	IMPORTANT – I will NOT grant a W (withdrawal) once the official college deadline has passed. Please DO NOT ASK! More information here on the first day of class.
CLASS POLICIES	<p>All exams will be administered through the Canvas system.</p> <p>Online sections - You may have to take your exams at a physical campus location (West Charleston, Henderson, North Las Vegas campus sites).</p>

Hybrid/in-class sections – **You will take your exam in class during the regular class hours.**

All 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 this material earlier than the rest of the class, send me an e-mail message and I will give you access to this 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 incommutability with your web browser. Please send an e-mail message informing me about any links that have disappeared from your view.

Online/hybrid 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 just as in a normal classroom, 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. **FAILURE TO ADHERE TO THIS POLICY WILL RESULT IN A ZERO FOR THE EXAM AND MAY LEAD TO REMOVAL FROM THE COURSE.**

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 CIT department has a dedicated software lab at the three major campuses where students may drop in for additional help. You may just drop in as you wish without making appointments.
Centers for Academic Success (CAS)	Free one-on-one and drop-in tutoring is available in the Communication Centers, Math Resource Centers, Science Resource Centers, Tutorial Learning Centers (one-on-one tutoring), and Writing Centers. Tutors are available in most subjects to provide learning support and help students improve academic motivation and performance, enhance self-esteem and confidence as an independent learner, and achieve educational goals. Visit the CAS web site for detailed information about all CAS programs and centers including locations, hours and more.
EXCESS CREDIT FEE INFORMATION	Please visit the web site for information about the excess credit fee applied in certain circumstances.
TITLE IX Resources	More information is available at their web site .
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.

There are several homework assignments.

Exam 1 is worth 100 points.

Exam 2 is worth 100 points.

There is a final exam worth 100 points.

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

(The average of homework assignments * .5 + exam1 * 0.15 + exam2 * 0.15 + Final * .20)

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

Answer: $(80 * .5 + 75 * .15 + 80 * .15 + 80 * .2) = 79.25$

Letter grade: C+

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

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.

Recommended Textbook – Gaddis – If you are using any other textbook than the optional textbook discussed here, you should be able to follow similar chapters as such books cover the same concepts.

The following outlines the list of topics we cover in this course. Exam dates will be available in Canvas on the first day of class.

TOPICS
Syllabus and Introduction Overview of the Canvas Learning system Chapter 0 – Introduction Chapter 1 – An Introduction to programming Chapter 2 – SKIPPED till the last week of class Chapter 3 – Developing a program
Downloading and installing the Raptor software on your computer Installation note in Canvas Chapter 4 – Selection structures: Making Decisions Skipped topics – Section 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 Chapter 5 – Repetition Structures: Looping Skipped topics – Section 4.4 – 5.5 – Focus on programming solving
Chapter 6 – More about Loops and Decisions Skipped topics – Section 6.5 – Focus on Problem solving 7.4 – Two-Dimensional arrays 7.5 – Focus on problem solving Chapter 7 – Arrays: Lists and Tables
Chapter 7 – Arrays: Lists and Tables Chapter 8 – Searching and Sorting Arrays Skipped topics – Section 8.3 – The Binary search 8.4 – The selection Sort 8.5 – Focus on problem solving 8.6 – the topics using subcharts can be skipped. Downloading and installing the Python software on your computer Installation note in Canvas

Gaddis - Chapter 2 – Input, processing, and Output

Gaddis - Chapter 3 – Decision structures and Boolean logic

Gaddis – Chapter 4 – Repetition Structures

Gaddis - Chapter 5 – Functions

Gaddis - Chapter 6 – Files and Exceptions (We will only cover the concept of files. We will not cover Exceptions)

Gaddis - Chapter 7 – Lists and Tuples (We only cover lists which are the same as arrays that we covered in Raptor)

REVIEW and Chapter 2 (2.1 & 2.2 only) - Data Representation