Instructional Services · Digital and Information Tech · Computer Programming

Programming Fundamentals II-15265

COSC-1437

RT 2023 Section 0099 4 Credits 08/21/2023 to 12/17/2023 Modified 08/20/2023

Our Vision

Houston Community College shapes the future for all students with innovative, affordable, timely, responsive, and continuously improving educational programs and services. Partnered with the communities we serve, we take a defining role in regional economic, workforce, and social development.

https://www.hccs.edu/about-hcc/ (https://www.hccs.edu/about-hcc/)

Course Meetings

Course Modality

Online on a Schedule

Meeting Days

Online/MoWe

Meeting Times

Online/ 6:00PM - 8:50PM

Meeting Location

HCC Online

Office hours MW 7-8, varies ask instructor.

Welcome and Instructor Information

Insrtuctor: Kendrick Smith

Email: https://eagleonline.hccs.edu/conversations
Office: https://eagleonline.hccs.edu/conversations
Phone: https://eagleonline.hccs.edu/conversations
Website: https://eagleonline.hccs.edu/conversations (https://eagleonline.hccs.edu/conversations)

What's Exciting About This Course

This course, COSC1437, offers an exciting journey into the world of programming, equipping students with invaluable skills that transcend the digital landscape. From unraveling the intricate threads of object-oriented programming to delving into the art of crafting efficient algorithms, every module promises a new realm of discovery. The opportunity to create and innovate through hands-on projects, coupled with the guidance to decipher and resolve intricate software errors, adds an element of adventure to the learning process. As students navigate topics such as object-oriented programming, algorithm design, data structures, and debugging techniques, they embark on a transformative experience that empowers them to shape the future of technology.

My Personal Welcome

Welcome to COSC 1437, Programming Fundamentals II using Java. My name is Instructor Kendrick Smith, you can just call me Instructor Smith. I'm delighted that you have chosen this course!

I will be your Instructor for COSC 1437, and I am happy to help anyway I can.

A little about me, I have a Bachelors degree in Computer Engineering, Masters degree in Information Technology, and a Masters degree in Computer Science. I have worked in various industries and systems, from networking to software development.

As its title indicates, this is an immediate level programming with Java course. The course starts with an overview of Objects and Classes . This course focuses on the object-oriented programming paradigm, emphasizing the definition and use of classes along with fundamentals of object-oriented design. The course includes basic analysis of algorithms, searching and sorting techniques, and an introduction to software engineering processes. Students will apply techniques for testing and debugging software. Please read the rest of this syllabus for the course description, pre-requisites, student learning outcomes, required textbook, instructional material, course assignments/assessments, as well as other course policies (participation, makeup, etc.). Pay special attention to the Course Calendar section shown below for assignments/assessments due dates. As the course progresses, you may encounter challenging ideas or difficulties completing your course work.

I am available to support you. The fastest way to reach me is through the Canvas Inbox (https://eagleonline.hccs.edu/conversations) . The best way to really discuss issues is in-person. I'm available during posted office hours to tackle the questions. My goal is for you to walk out of the course with a solid understanding of the Microsoft Office products, so please visit me, or contact me by email, whenever you have a question.

Preferred Method of Contact

Canvas Inbox (https://eagleonline.hccs.edu/conversations)

Course Overview

Course Description

(4 Credits | 96 hours per semester) This course focuses on the object-oriented programming paradigm, emphasizing the definition and use of classes along with fundamentals of object-oriented design. The course includes basic analysis of algorithms, searching and sorting techniques, and an introduction to software engineering processes. Students will apply techniques for testing and debugging software.

Prerequisites

COSC 1436 and MATH 2412

A grade of C or higher in COSC 1436 is required to register for this course. Please carefully read and consider the repeater policy in the HCCS Student Handbook. (http://www.hccs.edu/resources-for/current-students/student-handbook/)

Department Website

https://www.hccs.edu/programs/areas-of-study/science-technology-engineering--math/computer-programming/ (https://www.hccs.edu/programs/areas-of-study/science-technology-engineering--math/computer-programming/)

Core Curriculum Objectives (CCOs)

COSC 1437 satisfies Component Area Option in the HCCS core curriculum. The HCCS Core Curriculum Committee has specified that the course address the following core objectives:

- ***Critical Thinking***: Students will demonstrate the ability to engage in inquiry and analysis, evaluation and synthesis of information, and creative thinking by completing the class project and assignments, along with answering questions on quizzes and exams.
- ***Communication Skills***: Students will demonstrate effective development, interpretation and expression of ideas through written, oral, and visual communication by completing assignments and participating in online or in-class discussions.
- ***Quantitative and Empirical Literacy***: Students will demonstrate the ability to draw conclusions based on the systematic analysis

of topics using observation, experiment, and/or numerical skills by completing assignments, and answering questions on quizzes and exams.

Student Learning Outcomes and Objectives

Program Student Learning Outcomes (PSLOs)

Can be found at:

https://www.hccs.edu/programs/areas-of-study/science-technology-engineering--math/computer-programming/ (https://www.hccs.edu/programs/areas-of-study/science-technology-engineering--math/computer-programming/)

Course Student Learning Outcomes (CSLOs)

- Identify and explain a programming development lifecycle, including planning, analysis, design, development, and maintenance.
- Demonstrate a basic understanding of object-oriented programming by using structs and classes in software projects.
- Use object-oriented programming techniques to develop executable programs that include elements such as inheritance and polymorphism.
- Document and format code in a consistent manner.
- Apply basic searching and sorting algorithms in software design.
- Apply single- and multi-dimensional arrays in software.
- Use a symbolic debugger to find and fix runtime and logical errors in software.
- Demonstrate a basic understanding of programming methodologies, including object-oriented, structured, and procedural programming.
- Describe the phases of program translation from source code to executable code.

Learning Objectives

Learning Objectives for each CSLO care mapped to course material within Canvas.

Departmental Practices and Procedures

Instructor and Student Responsibilities

As your Instructor, it is my responsibility to:

- Provide the grading scale and detailed grading formula explaining how student grades are to be derived
- Facilitate an effective learning environment through learner-centered instructional techniques
- Provide a description of assignments
- Inform students of policies such as attendance, withdrawal, tardiness, and making up assignments
- Provide the course outline and class calendar
- Arrange to meet with individual students as needed

As a student, it is your responsibility to:

- ***To complete your own work! Do not copy from outside sources, friends, or tutors.***

  Plagiarism is defined in the Webster dictionary to steal and pass off (the ideas or words of another) as one's own; use (another's production) without crediting the source. At HCC we take plagiarism very seriously. If your code is found online (Chegg, Course Hero, etc.), you will receive a zero (0) for that question.

- Attend class in person and/or online
- Be on-time!!
- Participate actively by reviewing course material, interacting with classmates, and responding promptly in your communication with me
- Read and comprehend the course material
- Complete the required assignments and exams
- Ask for help when there is a question or problem

- Keep copies of all paperwork, including this syllabus, handouts, and all assignments
- Be aware of and comply with academic honesty policies in the HCCS Student Handbook (http://www.hccs.edu/resources-for/current-students/student-handbook/)

Program-Specific Student Success Information

There is no short cut for success in this course; it requires reading, studying the material, completing the assignments, but most importantly, ***practicing the concepts on your own***.

A programming concept can be used multiple ways. Using a concept once (or twice), in one assignment, will not provide you the necessary proficiency. "Practice" with the concepts on your own.

Expect to spend at least twice as many hours per week outside of class as you do in class studying the course content.

Students may ask questions to other students, to me, or to anyone else. This is how we learn, and we encourage this. **HOWEVER, all work must be started and completed in its entirety on your own. If your code is found online (Chegg, etc…) you will receive a 0. If your code is copied from a classmate, both students will receive a 0. If it is found that students are sharing the same files, and then making minor changes to submit the work as their own, both students will receive a 0 on the assignment and may possibly be removed from the class.** Note: It is very easy for instructors to determine if code was copied from another student. Please refer to the student handbook regarding cheating. For more information see the Academic Integrity section of the syllabus, shown below.

If you would like to speak to our department's Student Success coach, please email naseem.nikooei@hccs.edu.

Instructional Materials and Resources

Instructional Materials

The HCC Online Bookstore (https://hccs.bncollege.com/shop/hccs-central/page/find-textbooks) provides searchable information on textbooks for all courses. Check with your instructor before purchasing textbooks because the book might be included in your course fees.

This course is in Inclusive Access :

This course participates in the Houston Community College First Day Program. A discount has been applied to the required digital course materials. The discounted charge has been added to students' tuition and fee bills.

Students will access course materials through a link in Canvas. Instructions for opting out of the HCC First Day Program are also posted in Canvas. Students who opt out will still be responsible for obtaining required course materials.

Students will receive need Revel Lab access for Lab assignments, in this course. Information will be provided on this canvas course integration of Pearson Revel Lab site.

CourseID will be provided on First Course Meeting (will be rerecorded).

Revel for Introduction to Java Programming and Data Structures, 1st edition

Revel™ ***Introduction to Java Programming and Data Structures*** seamlessly integrates programming, data structures, and algorithms into one text. With a fundamentals-first approach, the text builds a strong foundation of basic programming concepts and techniques before teaching students object-oriented programming and advanced Java programming. Liang explains programming in a problem-

driven way that focuses on problem solving rather than syntax, illustrating basic concepts by example and providing a large number of exercises with various levels of difficulty for students to practice. **Revel** ***Introduction to Java Programming and Data Structures*** engages students at the point of learning, which leads to a deeper understanding of the course material.

Revel is Pearson's newest way of delivering our respected content. Fully digital and highly engaging, Revel replaces the textbook and gives students everything they need for the course. Informed by extensive research on how people read, think, and learn, Revel is an interactive learning environment that enables students to read, practice, and study in one continuous experience – for less than the cost of a traditional textbook.

NOTE: Revel is a fully digital delivery of Pearson content. This ISBN is for the standalone Revel access card. In addition to this access card, you will need a course invite link, provided by your instructor, to register for and use Revel.

Other Instructional Resources

Setup#1. Download/Install/Config { JDK - latest version } - instructor will provided instructional video or follow-along

Setup#2. Download/Install/Config { Eclipse IDE for Java Developers } - instructor will provided instructional video or follow-along

✔ Course Requirements

Assignments, Exams, and Activities

Type	Weight	Topic	Notes
[DISCUSSION] Assignments	10%	Discussion assignments	Students complete discussion assignments based on Modules topics. Students must watch entire video per question, and response per question
[Lab - Pearson Revel] Assignments	20%	Pearson Revel Assignments	Students complete lab assignment based on Modules instructions. Lab per Module
[Quizzes] Assignments	10%	Module Quiz	Students complete quizzes based on Modules topics.
[Midterm Exam] Assignments	15%	Midterm Exam	Students will be assessed on topics cover OOP, encapsulation, inheritance, polymorphism for midterm 1, and exception-handling, abstract, interface for midterm 2.
[Projects] Assignments	15%	Programming Projects	Students will complete programming assignments in Java Project via the Eclipse IDE application.
Final Exam] Assignments	30%	COSC 1437 - Final Exam	Students will Final Exam Topics will cover all COSC 1437 topics . covers midterm 1, midterm 2, and binaryIO, recursion, and generics.

Grading Formula

Grade	Range	Notes

Grade	Range	Notes
A	89.5-100	
B	79.50-89.49	
C	69.50-79.49	
D	59.50-69.49	
F	0-59.49	

Instructor's Practices and Procedures

Incomplete Policy

In order to receive a grade of Incomplete ("I"), a student must have completed at least 85% of the work in the course. In all cases, the instructor reserves the right to decline a student's request to receive a grade of Incomplete

Missed Assignments/Make-Up Policy

No Missed Assignments/Make-Up Policy

Academic Integrity

Here's the link to the HCC information about academic integrity (Scholastic Dishonesty and Violation of Academic Scholastic Dishonesty and Grievance):

https://www.hccs.edu/studentprocedures (https://www.hccs.edu/studentprocedures)

Attendance Procedures

regularly login to canvas course and revel site.

Student Conduct

1. Classroom attendance is a necessary part of this course. You are allowed no more than x number of unexcused absences.

2. Classroom participation is a part of your grade in this course. To participate you must attend class having prepared the materials for the day. Questions and comments must be relevant to the topic at hand.

3. You are expected to be on time. Class starts promptly at x. You should be in your seat and ready to begin class at this time. Class ends at x. Packing up your things early is disruptive to others around you and to myself.

4. Raise your hand to be recognized.

5. Classroom discussion should be civilized and respectful to everyone and relevant to the topic we are discussing. Everyone is entitled to their opinion. Classroom discussion is meant to allow us to hear a variety of viewpoints. This can only happen if we respect each other and our differences.

6. Any discussion from class that continues on any listserv or class discussion list, should adhere to these same rules and expectations.

7. Any continued disruption of class will result in a report to the Coordinator of Community Rights and Responsibilities for a conduct code infraction. After one warning, if the disruption continues, you will be asked to leave the classroom for the remainder of class.

8. You are expected to do your own work. Cheating, plagiarism and any other form of academic dishonesty will not be tolerated. Please refer to the Code of Student Conduct by which all students are expected to abide. Grade penalty that will be issued to you should you be found responsible for academic dishonesty will be (F in course, F on assignment, 1 letter grade lower in course, redo assignment, etc.)

9. What you can expect from me: I will be prepared for class, on time, I will not leaving early, I will be respectful you and your opinions.

Devices

PC Windows or Mac

Faculty Statement about Student Success

We here at HCC want you to succeed, learn from our classes, participate, and build a great portfolio. Reach out to me, any of the instructors, or our Department Chair if there is anything we can do the help you get there.

Faculty-Specific Information Regarding Canvas

This course section will use Canvas (https://eagleonline.hccs.edu (https://eagleonline.hccs.edu)) to supplement in-class assignments, exams, and activities.

HCCS Open Lab locations may be used to access the Internet and Canvas. For best performance, Canvas should be used on the current or first previous major release of Chrome, Firefox, Edge, or Safari. Because it's built using web standards, Canvas runs on Windows, Mac, Linux, iOS, Android, or any other device with a modern web browser.

Canvas only requires an operating system that can run the latest compatible web browsers. Your computer operating system should be kept up to date with the latest recommended security updates and upgrades.

Social Justice Statement

Houston Community College is committed to furthering the cause of social justice in our community and beyond. HCC does not discriminate on the basis of race, color, religion, sex, gender identity and expression, national origin, age, disability, sexual orientation, or veteran status. I fully support that commitment and, as such, will work to maintain a positive learning environment based upon open communication, mutual respect, and non-discrimination. In this course, we share in the creation and maintenance of a positive and safe learning environment. Part of this process includes acknowledging and embracing the differences among us in order to establish and reinforce that each one of us matters. I appreciate your suggestions about how to best maintain this environment of respect. If you experience any type of discrimination, please contact me and/or the Office of Institutional Equity at 713-718-8271.

🏛 HCC Policies and Information

HCC Grading System

HCC uses the following standard grading system:

Grade	Grade Interpretation	Grade Points
A	Excellent (90-100)	4
B	Good (80-89)	3
C	Fair (70-79)	2
D	Passing (60-69), except in developmental courses.	1
F	Failing (59 and below)	0

Grade	Grade Interpretation	Grade Points
FX	Failing due to non-attendance	0
W	Withdrawn	0
I	Incomplete	0
AUD	Audit	0
IP	In Progress. Given only in certain developmental courses. A student must re-enroll to receive credit.	0
COM	Completed. Given in non-credit and continuing education courses.	0

Link to Policies in Catalog and Student Handbook

Here's the link to the HCC Catalog and Student Handbook: https://catalog.hccs.edu/ (https://catalog.hccs.edu/)

In it you will find information about the following:

- Academic Information
- Academic Support
- Attendance, Repeating Courses, and Withdrawal
- Career Planning and Job Search
- Childcare
- Ability Support Services
- Electronic Devices
- Equal Educational Opportunity
- Financial Aid TV (FATV)
- General Student Complaints
- Grade of FX
- Incomplete Grades
- International Student Services
- Health Awareness
- Libraries/Bookstore
- Police Services & Campus Safety
- Student Life at HCC
- Student Rights and Responsibilities
- Student Services
- Testing
- Transfer Planning
- Veteran Services

Link to HCC Academic Integrity Statement

https://www.hccs.edu/student-conduct (https://www.hccs.edu/student-conduct) (scroll down to subsections)

Campus Carry Link

Here's the link to the HCC information about Campus Carry:

https://www.hccs.edu/campuscarry (https://www.hccs.edu/campuscarry)

HCC Email Policy

When communicating via email, HCC requires students to communicate only through the HCC email system to protect your privacy. If you have not activated your HCC student email account, you can go to HCC Eagle ID (https://www.hccs.edu/email) and activate it now. You may also use Canvas Inbox to communicate.

Office of Institutional Equity

Use the following link to access the HCC Office of Institutional Equity, Inclusion, and Engagement: https://www.hccs.edu/eeo (https://www.hccs.edu/eeo)

Ability Services

HCC strives to make all learning experiences as accessible as possible. If you anticipate or experience academic barriers based on your disability (including long and short term conditions, mental health, chronic or temporary medical conditions), please meet with a campus Abilities Counselor as soon as possible in order to establish reasonable accommodations. Reasonable accommodations are established through an interactive process between you, your instructor(s) and Ability Services. It is the policy and practice of HCC to create inclusive and accessible learning environments consistent with federal and state law. For more information, please go to https://www.hccs.edu/accessibility (https://www.hccs.edu/accessibility)

Title IX

Houston Community College is committed to cultivating an environment free from inappropriate conduct of a sexual or gender-based nature including sex discrimination, sexual assault, sexual harassment, and sexual violence. Sex discrimination includes all forms of sexual and gender-based misconduct and violates an individual's fundamental rights and personal dignity. Title IX prohibits discrimination on the basis of sex-including pregnancy and parental status in educational programs and activities. If you require an accommodation due to pregnancy please contact an Abilities Services Counselor. The Director of EEO/Compliance is designated as the Title IX Coordinator and Section 504 Coordinator. All inquiries concerning HCC policies, compliance with applicable laws, statutes, and regulations (such as Title VI, Title IX, and Section 504), and complaints may be directed to:

David Cross
Director EEO/Compliance
Office of Institutional Equity & Diversity
3100 Main
(713) 718-8271
Houston, TX 77266-7517 or Institutional.Equity@hccs.edu (mailto:Institutional.Equity@hccs.edu)

https://www.hccs.edu/titleix (https://www.hccs.edu/titleix)

Mandatory Reporters

Under Texas Education Code 51.252 (formerly known as Senate Bill 212), HCC Instructors are mandatory reporters of sexual harassment, dating violence (domestic violence), sexual assault, and stalking. All instructors are required by law to report to the College's Title IX coordinator or Deputy Title IX coordinator all reports disclosed to them relating to sexual harassment, dating violence (domestic violence), sexual assault, and stalking alleged to have been committed by or against a person who was a student enrolled at or an employee of the institution at the time of the incident. Instructors are required by law to include all the information they know about the incident, including the name of the student(s), in the report to the College's Title IX coordinator or deputy Title IX coordinator.

Office of the Dean of Students

Contact the office of the Dean of Students to seek assistance in determining the correct complaint procedure to follow or to identify the appropriate academic dean or supervisor for informal resolution of complaints.

https://www.hccs.edu/about-hcc/procedures/student-rights-policies--procedures/student-complaints/speak-with-the-dean-of-students/ (https://www.hccs.edu/about-hcc/procedures/student-rights-policies--procedures/student-complaints/speak-with-the-dean-of-students/)

Student Success

Expect to spend at least twice as many hours per week outside of class as you do in class studying the course content. Additional time will be required for written assignments. The assignments provided will help you use your study hours wisely. Successful completion of this course requires a combination of the following:

- Reading the textbook
- Attending class in person and/or online
- Completing assignments
- Participating in class activities

There is no short cut for success in this course; it requires reading (and probably re-reading) and studying the material using the course objectives as a guide.

Canvas Learning Management System

Canvas is HCC's Learning Management System (LMS), and can be accessed at the following URL:

https://eagleonline.hccs.edu (https://eagleonline.hccs.edu)

HCCS Open Lab locations may be used to access the Internet and Canvas. **For best performance, Canvas should be used on the current or first previous major release of Chrome, Firefox, Edge, or Safari. Because it's built using web standards, Canvas runs on Windows, Mac, Linux, iOS, Android, or any other device with a modern web browser.**

Canvas only requires an operating system that can run the latest compatible web browsers. Your computer operating system should be kept up to date with the latest recommended security updates and upgrades.

HCC Online Information and Policies

Here is the link to information about HCC Online classes, which includes access to the required Online Information Class Preview for all fully online classes: https://www.hccs.edu/online/ (https://www.hccs.edu/online/)

Scoring Rubrics, Sample Assignments, etc.

Look in Canvas for the scoring rubrics for assignments, samples of class assignments, and other information to assist you in the course. https://eagleonline.hccs.edu/ (https://eagleonline.hccs.edu/)

Instructor and Student Responsibilities

As your Instructor, it is my responsibility to:

- Provide the grading scale and detailed grading formula explaining how student grades are to be derived
- Facilitate an effective learning environment through learner-centered instructional techniques
- Provide a description of any special projects or assignments
- Inform students of policies such as attendance, withdrawal, tardiness, and making up assignments
- Provide the course outline and class calendar that will include a description of any special projects or assignments
- Arrange to meet with individual students during office hours, and before and after class as required

As a student, it is your responsibility to:

- Attend class in person and/or online
- Participate actively by reviewing course material, interacting with classmates, and responding promptly in your communication with me
- Read and comprehend the textbook
- Complete the required assignments and exams
- Ask for help when there is a question or problem
- Keep copies of all paperwork, including this syllabus, handouts, and all assignments
- Be aware of and comply with academic honesty policies in the HCCS Student Handbook (https://www.hccs.edu/studenthandbook)

Sensitive or Mature Course Content

In this college-level course, we may occasionally discuss sensitive or mature content. All members of the classroom environment,

from your instructor to your fellow students, are expected to handle potentially controversial subjects with respect and consideration for one another's varied experiences and values.

EGLS3

The EGLS^3 (Evaluation for Greater Learning Student Survey System (https://www.hccs.edu/egls3)) will be available for most courses near the end of the term until finals start. This brief survey will give invaluable information to your faculty about their teaching. Results are anonymous and will be available to faculty and division chairs after the end of the term. EGLS^3 surveys are only available for the Fall and Spring semesters. -EGLS3 surveys are not offered during the Summer semester due to logistical constraints.

https://www.hccs.edu/egls3 (https://www.hccs.edu/egls3)

Housing and Food Assistance for Students

If you are experiencing any hardship related to food, shelter, mental health, or other basic needs areas, please visit the Basic Needs page for resources (https://www.hccs.edu/cares (https://www.hccs.edu/cares)). You have the option to take the Basic Needs Questionnaire and ask to be contacted by a counselor for additional assistance or support (https://www.hccs.edu/basicneeds (https://www.hccs.edu/basicneeds)). Furthermore, please notify the professor if you are comfortable doing so.

Student Resources

Tutoring

HCC provides free and convenient academic support, in a large variety of subjects, to HCC students in both an online environment and in-person on campus. Tutoring is provided by HCC personnel in order to ensure that it is appropriate. Visit the HCC Tutoring Services website for more information at https://hccs.edu/tutoring (https://hccs.edu/tutoring).

Libraries

The HCC Library System consists of 9 libraries and 6 Electronic Resource Centers (ERCs) that are inviting places to study and collaborate on projects. Librarians are available both at the libraries and online to show you how to locate and use the resources you need. The libraries maintain a large selection of electronic resources as well as collections of books, magazines, newspapers, and audiovisual materials. The portal to all libraries' resources and services is the HCCS library web page at https://library.hccs.edu (https://library.hccs.edu/).

Supplementary Instruction

Supplemental Instruction is an academic enrichment and support program that uses peer-assisted study sessions to improve student retention and success in historically difficult courses. Peer Support is provided by students who have already succeeded in completion of the specified course, and who earned a grade of A or B. Find details at https://www.hccs.edu/supplemental-instruction (https://www.hccs.edu/supplemental-instruction)

Resources for Students:

https://www.hccs.edu/covid19students (https://www.hccs.edu/covid19students)

Basic Needs Resources:

https://www.hccs.edu/support-services/counseling/hcc-cares/basic-needs-resources/ (https://www.hccs.edu/support-services/counseling/hcc-cares/basic-needs-resources/)

Student Basic Needs Application:

https://www.hccs.edu/basicneeds (https://www.hccs.edu/basicneeds)

COVID-19

Here's the link to the HCC information about COVID-19:

https://www.hccs.edu/covid-19 (https://www.hccs.edu/covid-19)

Instructional Modalities

In-Person (P)

Safe, face-to-face course with scheduled dates and times

Online on a Schedule (WS)

Fully online course with virtual meetings at scheduled dates and times

Online Anytime (WW)

Traditional online course without scheduled meetings

Hybrid (H)

Course that meets safely 50% face-to-face and 50% virtually

Hybrid Lab (HL)

Lab class that meets safely 50% face-to-face and 50% virtually

Copyright Statement

In order to uphold the integrity of the academic environment and protect and foster a cohesive learning environment for all, HCC prohibits the unauthorized use of course materials. Materials shared in this course are based on my professional knowledge and experience as an instructor and are presented in an educational context for the students in the course. Authorized use of course materials is limited to personal study or educational uses. Material should not be shared, distributed, or sold outside the course without permission. Students are also explicitly forbidden in all circumstances from plagiarizing or appropriating course materials. This includes but is not limited to publicly posting quizzes, essays, or other materials. This prohibition extends not only during this course, but after. Sharing of the materials in any context will be a violation of the HCC Student Code of Conduct and may subject the student to discipline, as well as any applicable civil or criminal liability. Consequences for unauthorized sharing, plagiarizing, or other methods of academic dishonesty may range from a 0 on the specified assignment and/or up to expulsion from Houston Community College. Questions about this policy may be directed to me, your instructor, or to the Manager of Student Conduct and Academic Integrity.

Unauthorized Disclosure

"Unauthorized disclosure" occurs when any student provides instructional materials and/or assessments to other students in violation of a clear prohibition by the instructor. Examples include: posting assessment items to online sites such as Chegg or CourseHero; asking exam questions in forums like Reddit or Yahoo Answers; discussions of confidential question using Wechat or GroupMe, etc.

🗓 Course Calendar

Syllabus Modifications

The instructor reserves the right to modify the syllabus at any time during the semester and will promptly notify students in writing, typically by e-mail, of any such changes.

[1][MODULE 0][(0DIT)][DIT][8/21 - 8/22]
[2][MODULE 00][(00SH)][START HERE][8/21 - 8/23]
[3][MODULE 01][(01RP)][RECAP][8/21 - 8/25]
[4][MODULE 02][(02OC)][OBJECTS & CLASSES][8/23 - 9/5]
[5][MODULE 03][(03OO)][OBJECT-ORIENTED][9/5 - 9/17]
[6][MODULE 04][(04IP)][INHERIT & POLYMOR][9/17 - 10/2]
[7][MIDTERM - 1][(MID1)][Objects-Classes-Encapsulation-Inheritance Assessment 1][10/2 - 10/7]

[8][MODULE 05][(05EF)][EX-HANDL & FILES][10/7 - 10/19]
[9][MODULE 06][(06AI)][ABSTRACT & INTERFACE][10/19 - 11/14]
[10][MIDTERM 2][(MID2)][Exception-Handling-Try-Catch-Abstraction-AbstractClasses-Interfaces-Relationships Assesment 2][11/14 - 11/17]
[11][MODULE 07][(07IO)][BINARY I-O][11/17 - 11/27]
[12][MODULE 08][(08RE)][RECURSION][11/27 - 12/6]
[13][MODULE 09][(09GE)][GENERICS][12/6 - 12/12]
[14][FINAL EXAM][(FINAL)][FINAL ASSESMENT][12/13 - 12/17]

Additional Information

Computer Programming Information

Houston Community College's Computer Programming offers Associate of Applied Science (AAS) degrees, an Associate of Arts (AA) degree, an Associate of Science (AS) degree, and various certificates that help students develop the knowledge, communication and creative skills, critical thinking, and technical competencies required in the modern workplace.

Visit the Computer Programming website (https://www.hccs.edu/programs/areas-of-study/science-technology-engineering--math/computer-programming/) for more information about our programs.

Award Types

- Associate in Science
  - Computer Information Systems
- Associate in Arts
  - Computer Science
- Associate of Applied Science
  - Cloud Computing and Application Development
  - Application Development (in C++, Java, Python, Swift, C#)
- Certificate Level 2
  - Database Administrator
  - Mobile Application Developer
  - Web Application Developer

Student Organizations

- Computer Science Association (https://hccs.presence.io/organization/computer-science-association) (CSA)
- Women in Technology (https://hccs.presence.io/organization/women-in-technology) (WIT)

Process for Expressing Concerns about the Course

If you have concerns about any aspect of this course, please reach out to your instructor for assistance first. If your instructor is not able to assist you, then you may wish to contact the Department Chair.

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