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## Computer Information Technology

### ITSE 2321 (3-3-1) – Object-Oriented Programming (Java)

Credit Fall 2019

Synonym 87931 Section 011

**Lecture:** Mondays and Wednesdays 3:40 pm – 4:55 pm NRG 4233

**Lab:** Mondays and Wednesdays 4:55 pm – 5:25 pm NRG 4233

**Instructor:** Fred Kumi

**Office Telephone:** (512) 223-4925

**Office:** NRG 4234

**Office Hours:** Mondays 10:30 am – 12:00 pm and 7:30 pm – 8:00 pm

Tuesdays 1:45 pm – 4:00 pm

Wednesdays 10:30 am – 12:00 pm and 7:30 pm – 8:00 pm

Thursdays 1:45 pm – 4:00 pm

Or by appointment

**E-mail:** [fkumi@austincc.edu](mailto:fkumi@austincc.edu)

**Home page:** <http://www2.austincc.edu/fkumi/>

### **COURSE DESCRIPTION:**

Introduction to object-oriented programming with an emphasis on the fundamentals of structured design with classes, including development, testing, implementation, and documentation. Includes object-oriented programming techniques, classes, and objects. We will not cover any GUI programming, though the class should prepare you to explore these topics on your own if you are interested.

- **Credit Hours:** 3
- **Classroom Contact Hours per week:** 2 hours 40 minutes
- **Laboratory Contact Hours per week:** 50 minutes
- **Pre-requisite:** COSC 1336 – Programming Fundamentals I or Departmental Approval  
This is not a first programming course. Students enrolled in this course should be well versed in the fundamentals of programming, and should have successfully completed COSC 1336 or an equivalent course.
- **Course Type:** W – Workforce

Transferability of workforce courses varies. Students interested in transferring courses to another college should speak with their Area of Study (AoS) advisor, Department Chair, and/or Program Director.

### **COURSE RATIONALE:**

This course is designed to teach Object-Oriented programming concepts, techniques, and applications using the Java programming language.

### **COURSE OBJECTIVES / LEARNING OUTCOMES:**

To learn Object-Oriented programming concepts and techniques using the Java programming language. To learn to write, test, and debug introductory level Object-Oriented programs using Java. In addition, the student will be introduced to the following concepts, which are important workforce activities:

- Design/Develop Program
- Implement Program
- Write code
- Perform unit testing
- Integrate subsystems
- Resolve defects and revise and adapt existing code
- Test and Validate Program
- Develop test procedures
- Perform tests

#### **Course topics include:**

1. Identifiers
2. Arithmetic, relational, and Logical Operators
3. Sequential, Repetition, and Decision structures
4. Classes, Objects, and Methods
5. File I/O
6. String Manipulation
7. Exceptions
8. Arrays and ArrayLists
9. Inheritance and Encapsulation

### **SCANS COMPETENCIES:**

#### **SCANS (Secretary's Commission on Achieving Necessary Skills):**

Refer to <http://www.austincc.edu/cit/courses/scans.pdf> for a complete definition and explanation of SCANS. The following list summarizes the SCANS competencies addressed in this particular course:

<b>RESOURCES</b> 1.1 Manages Time	<b>INTERPERSONAL</b>	<b>INFORMATION</b> 3.1 Acquires and Evaluates Information 3.2 Organizes and Maintains Information 3.3 Uses Computers to Process Information	<b>SYSTEMS</b> 4.1 Understands Systems 4.2 Monitors and Corrects Performance 4.3 Improves and Designs Systems
<b>TECHNOLOGY</b> 5.1 Selects Technology 5.2 Applies Technology to Task 5.3 Maintains and Troubleshoots Technology	<b>BASIC SKILLS</b> 6.1 Reading 6.2 Writing 6.3 Arithmetic 6.4 Mathematics 6.5 Listening	<b>THINKING SKILLS</b> 7.1 Creative Thinking 7.2 Decision Making 7.3 Problem Solving 7.4 Mental Visualization 7.5 Knowing How to Learn 7.6 Reasoning	<b>PERSONAL SKILLS</b> 8.1 Responsibility 8.2 Self-Esteem 8.3 Sociability 8.4 Self-Management 8.5 Integrity/Honesty

### **REQUIRED TEXTS/MATERIALS/SOFTWARE**

#### **Approved Course Text and Teaching Materials:**

Java: How to Program, Early Objects – 11th Edition, Paul Deitel, Harvey Deitel – Pearson, 2017, (ISBN – 9780134751856)

#### **Optional Materials:**

1 USB 2.0/3.0 Flash Drive.

#### **Software:**

Java and Eclipse, NetBeans, or IntelliJ IDEA

### **INSTRUCTIONAL METHODOLOGY:**

This course will have 75% lecture and 25% laboratory. The student will be required to do assigned readings from the text and handouts as well as scheduled individual labs to reinforce the material covered in class. Scheduled tests will be used to assess the progress of the student toward achievement of the course objectives. The COSC/CIT open labs are available for students for work outside of scheduled lab time.

### **GRADING SYSTEM**

**Grade Policy:** Grade will be assigned based both on concepts and practical application. Exams, homeworks, and programming assignments will be a part of the grade

**Examinations:** Three major exams will be given during the semester. There are **NO** makeup exams given in this course. If a student misses an exam, the next exam will count double. Only one exam may be missed and there will be **NO** make up for **EXAM 3**.

**Grading Criteria:** Each student's grade for this course consists of the following four parts:

Semester Exams (2 @ 21% each)	42%
Final Exam (Comprehensive)	24%
Programming Assignments	24%
Homework Assignments	10%

An overall grade will be assigned on the following grading scale:

A - 90% to 100%
B - 80% to 89%
C - 70% to 79%
D - 60% to 69%
F - Below 60%

**Scheduling of Computer Time:** Scheduling of computer time outside of regular lab time is the student's responsibility. Availability of computers is **NOT** an excuse for being late with any assignment. The last date to submit assignments for consideration this semester is December 11, 2019.

### **COURSE POLICIES:**

A. **Attendance/Class Participation:** Regular and timely class participation in discussions and laboratory attendance is expected of all students. If attendance or compliance with other course policies is unsatisfactory, the instructor may withdraw students from the class.

In the event the college or campus closes due to unforeseen circumstances (for example, severe weather or other emergency), the student is responsible for communicating with their professor during the closure and completing any assignment or other activities designated by their professor as a result of class sessions being missed.

If the student misses a class or is tardy, it is the student's responsibility to get assignments and missed material. **Absence is no excuse for late assignments, including when deadlines have been changed.**

Students who do not come to class and do not contact the instructor during the first week of class will be classified as "Never Attended" and will be ineligible for financial aid and automatically withdrawn from the course.

B. **Course Schedule:** Please note that schedule changes may occur during the semester. Any changes will be reflected in the schedule in Blackboard and will be accompanied by an email to all students.

C. **Programming assignments:** Programming assignments **must** be the product of the student's independent effort. Each programming assignment must be submitted on Blackboard on before the due date and time indicated on Blackboard and also in the programming assignment schedule. **Programming assignments can be turned in up to two weeks after the due date with a**

**late penalty of 25% per week.** Scheduling of computer time outside of regular lab time is the student's responsibility.

D. **Homework assignments:** All homework assignments must be submitted on Blackboard on or before the due date and time indicated on Blackboard and also in the homework schedule.

E. **Guidelines for Programming Assignments:**

1. Begin each programming assignment with an initial comment block that includes the following: your name, instructor's name, assignment number, assignment due date, course and section number, and name of Java file. See the Coding Rules document for details.
2. You will be graded on BOTH program accuracy and program style.
3. Programming assignments must meet requirements, exactly as specified, and pass testing to receive full credit.
4. All programming assignments must be submitted to Blackboard to receive credit. No programming assignment will be accepted via e-mail.
5. **Programming assignment links are automatically/programmatically removed from Blackboard at 11:59pm Central Time two weeks after the due date. Therefore, it is not possible to submit programming assignments two weeks after the due date.**

F. **Class and Lab Preparation:** All students are expected to read the chapters to be covered in class and familiarize themselves with the week's assignments **before** class. In this way, you will obtain much better value from the class, and can make best use of lab time.

G. **Withdrawal:** It is the responsibility of each student to ensure that his or her name is removed from the roll should he or she decides to withdraw from the class. The instructor does, however, reserve the right to drop a student should he or she feel it is necessary. If a student decides to withdraw, he or she should also verify that the withdrawal is submitted before the Final Withdrawal Date. **The Final Withdrawal Date for this semester is Thursday, November 21, 2019.** The student is also strongly encouraged to keep any paperwork in cases a problem arises.

Students are responsible for understanding the impact that withdrawal from a course may have on their financial aid, veterans' benefits, and international student status. Per state law, students enrolling for the first time in **Fall 2007** or later at any public Texas college or university may not withdraw (receive a W) from more than six courses during their undergraduate college education. Some exemptions for good cause could allow a student to withdraw from a course without having it count towards this limit. Students are strongly encouraged to meet with an advisor when making decisions about course selection, course loads, and course withdrawals.

In situations where the student fails to withdraw before the withdrawal date, and the student's work is below the minimum acceptable standards, a letter grade of **F** will be given.

H. **Incomplete Grade:** A student may receive a temporary grade of "I" (Incomplete) at the end of the semester only if **ALL** of the following conditions are satisfied:

1. The student is unable to complete the course during the semester due to circumstances beyond their control.

2. The student has earned at least half of the grade points needed for a “C” by the end of the semester.
3. The student requests the grade in person at the instructor’s office and necessary documents are completed before the last day of the semester.

To remove an “I”, the student must complete the course by two weeks before the end of the following semester. Failure to do so will result in the grade automatically reverting to an “F”.

- I. **Miscellaneous:** Classes will start and end on time. If you must arrive late or leave early, please minimize any disruption to your fellow students by sitting quietly close to the door.

## **COLLEGE POLICIES**

- A. **Statement on Academic Integrity:** Austin Community College values academic integrity in the educational process. Acts of academic dishonesty/misconduct undermine the learning process, present a disadvantage to students who earn credit honestly, and subvert the academic mission of the institution. The potential consequences of fraudulent credentials raise additional concerns for individuals and communities beyond campus who rely on institutions of higher learning to certify students' academic achievements, and expect to benefit from the claimed knowledge and skills of their graduates. Students must follow all instructions given by faculty or designated college representatives when taking examinations, placement assessments, tests, quizzes, and evaluations. Actions constituting scholastic dishonesty include, but are not limited to, plagiarism, cheating, fabrication, collusion, falsifying documents, or the inappropriate use of the college’s information technology resources. Further information is available at <https://www.austincc.edu/about-acc/academic-integrity-and-disciplinary-process>.

**The penalty for scholastic dishonesty for the course is a grade of ‘F’.**

- B. **Student Rights & Responsibilities:** Academic freedom is a foundation and hallmark of higher education. In the context of college-level courses, it specifically refers to the rights of free expression and respect for others with differing opinions. Students at the college have the rights accorded by the U.S. Constitution to freedom of speech, peaceful assembly, petition, and association. This concept is accompanied by an equally demanding concept of responsibility on the part of the student. Just as you are expected to exercise these rights with respect for state and federal law in the larger world, you are expected to exercise these rights as a student with respect for the college’s standards of conduct. These rights carry with them the responsibility to accord the same rights to others in the college community and not to interfere with or disrupt the educational process. Students and faculty alike should enable a climate of mutual respect and civility while fostering the freedom to debate and discuss the merits of competing ideas.

Enrollment in the college indicates acceptance of the rules set forth in the student standards of conduct policy, which is administered through the office of the campus dean of student services. Due process, through an investigation and appeal process, is assured to any student involved in disciplinary action.

- C. **Student Complaints:** A defined process applies to complaints about an instructor or other college employee. You are encouraged to discuss concerns and complaints with college personnel and should expect a timely and appropriate response. When possible, students should first address their concerns through informal conferences with those immediately involved; formal due process is available when informal resolution cannot be achieved.

Student complaints may include (but are not limited to) issues regarding classroom instruction, college services and offices on the basis of actual or perceived race, color, national origin, religion, age, gender, gender identity, sexual orientation, political affiliation, or disability.

Further information about the complaints process, including the form used to submit complaints, is available at:

<http://www.austincc.edu/students/students-rights-andresponsibilities/student-complaint-procedures>

- D. **Statement on Privacy:** The Family Educational Rights and Privacy Act (FERPA) protects confidentiality of students' educational records. Grades cannot be provided by faculty over the phone, by e-mail, or to a fellow student. Individual student grades are posted in BlackBoard.
- E. **Safety Statement:** Health and safety are of paramount importance in classrooms, laboratories, and field activities. Students are expected to learn and comply with ACC environmental, health and safety procedures and agree to follow ACC safety policies. Emergency Procedures posters and Campus Safety Plans are posted in each classroom and should be reviewed at the beginning of each semester.

All incidents (injuries/illness/fire/property damage/near miss) should be immediately reported to the course instructor. Additional information about safety procedures and how to sign up to be notified in case of an emergency can be found at <http://www.austincc.edu/emergency>

Everyone is expected to conduct themselves professionally with respect and courtesy to all. Anyone who thoughtlessly or intentionally jeopardizes the health or safety of another individual may be immediately dismissed from the day's activity and will be referred to the Dean of Student Services for disciplinary action.

In the event of disruption of normal classroom activities due to an emergency situation or an illness outbreak, the format for this course may be modified to enable completion of the course. In that event, students will be provided an addendum to the class syllabus that will supersede the original version.

- F. **Tutoring:** Free tutoring is provided for this course both online and face-to-face. For online schedules and details please refer to <https://sites.austincc.edu/cs/student-resources/csit-tutoring-schedule/>
- G. **Campus Carry:** The Austin Community College District concealed handgun policy ensures compliance with Section 411.2031 of the Texas Government Code (also known as the Campus Carry Law), while maintaining ACC's commitment to provide a safe environment for its students,



faculty, staff, and visitors. Beginning August 1, 2017, individuals who are licensed to carry (LTC) may do so on campus premises except in locations and at activities prohibited by state or federal law, or the college's concealed handgun policy. In addition, **concealed weapons are not allowed on ACC-sponsored field trips** where the school owns or has chartered or leased vehicles for transportation. It is the responsibility of license holders to conceal their handguns at all times. Persons who see a handgun on campus are asked to contact the ACC Police Department by dialing 222 from a campus phone or 512-223-7999. Please refer to the concealed handgun policy online at: <http://austincc.edu/campuscarry>

- I. **Student Files – Privacy:** Their instructor for educational and academic reasons may view the information that a student stores in his/her student volume in the Computer Studies Labs.
- J. **Discrimination Prohibited:** The College seeks to maintain an educational environment free from any form of discrimination or harassment including but not limited to discrimination or harassment on the basis of race, color, national origin, religion, age, sex, gender, sexual orientation, gender identity, or disability.

Faculty at the College are required to report concern regarding sexual misconduct (including all forms of sexual harassment and sex and gender-based discrimination) to the Manager of Title IX/Title VI/ADA Compliance. Licensed clinical counselors are available across the District and serve as confidential resources for students.

Additional information about Title VI, Title IX, and ADA compliance can be found in the ACC Compliance Resource Guide available at:  
<https://drive.google.com/file/d/1o55xINAWNvTYgI-fs-JbDyuaMFDNvAjz/view>

- K. **Use of ACC email:** All College e-mail communication to students will be sent solely to the student's ACCmail account, with the expectation that such communications will be read in a timely fashion. ACC will send important information and will notify students of any college-related emergencies using this account. Students should only expect to receive email communication from their instructor using this account. Likewise, students should use their ACCmail account when communicating with instructors and staff. Information about ACC email accounts, including instructions for accessing it, are available at:  
<http://www.austincc.edu/help/accmail/questions-and-answers>
- L. **Classroom Behavior:** Students are expected to demonstrate proper classroom behavior. The professor has the prerogative to request any student that demonstrates improper and disruptive classroom behavior to leave the classroom. Improper and disruptive behavior includes, but is not limited to: profanity, verbal outbursts, unwarranted physical activity, and lack of respect for fellow students and/or the professor.
- M. **Emergency Situation:** In the event of disruption of normal classroom activities due to an emergency situation or an illness outbreak, the format for this course may be modified to enable completion of the course. In that event, students will be provided an addendum to the class syllabus that will supersede the original version.



## **STUDENT SUPPORT SERVICES**

The success of our students is paramount, and ACC offers a variety of support services to help, as well as providing numerous opportunities for community engagement and personal growth.

- A. **Student Support:** ACC strives to provide exemplary support to its students and offers a broad variety of opportunities and services. Information on these campus services and resources is available at <http://www.austincc.edu/students>.
- B. **Students Accessibility Services:** Each ACC campus offers support services for students with documented disabilities. Students with disabilities who need classroom, academic or other accommodations must request them through the office of Student Accessibility Services (SAS). Students are encouraged to request accommodations when they register for courses or at least three weeks before the start of the semester, otherwise the provision of accommodations may be delayed. Students who have received approval for accommodations from SAS for this course must provide the instructor with the ‘Notice of Approved Accommodations’ from SAS before accommodations will be provided. Arrangements for academic accommodations can only be made after the instructor receives the ‘Notice of Approved Accommodations’ from the student. Students with approved accommodations are encouraged to submit the ‘Notice of Approved Accommodations’ to the instructor at the beginning of the semester because a reasonable amount of time may be needed to prepare and arrange for the accommodations.

Additional information about Student Accessibility Services is available at <https://www.austincc.edu/offices/student-accessibility-services-and-assistive-technology>

- C. **Academic Support:** ACC offers academic support services on all of its campuses. These services, which include face-to-face and online tutoring, academic coaching, and supplemental instruction, are free to enrolled ACC students. Tutors are available in a variety of subjects ranging from accounting to pharmacology. Students may receive these services on both a drop-in and referral basis. Tutoring schedules can be found at: <https://sites.austincc.edu/cs/student-resources/csit-tutoring-schedule/>
- D. **Library Services:** ACC has a full-service library at each of its campuses to support ACC courses and programs and to provide students with research and assignment assistance from expert faculty librarians, computers, course reserves, laptop and tablet check out, study spaces, and copying, printing, and scanning services. In addition, ACC students have full rights and privileges to access Library Services online 24/7 via the ACC Library website and students can use their ACCeID logins to access all online materials, including e-books, articles from library databases, and streaming videos. ACC Libraries also provide an “Ask a Librarian” service, which allows students to reach a librarian 24/7 through online chat. Faculty librarians are also available via email, phone, and in person seven days a week during hours of operation. Visit:
- Library Website: <http://library.austincc.edu>
  - Ask a Librarian: <https://library.austincc.edu/help/ask.php>
  - Library Hours of Operation by Location: <https://library.austincc.edu/loc/>
  - Email: [library@austincc.edu](mailto:library@austincc.edu)

In partnership with ACC's Student Support Center, ACC Libraries also maintain a limited collection of textbooks for students to borrow. Priority access to the textbook collection is given to students receiving assistance. More information is available on the ACC website by searching "Student Support Center Textbook Collection."

- E. **Student Organizations:** ACC has over seventy student organizations, offering a variety of cultural, academic, vocational, and social opportunities. They provide a chance to meet with other students who have the same interests, engage in service-learning, participate in intramural sports, gain valuable field experience related to career goals, and much else. Student Life coordinates many of these activities, and additional information is available at <http://sites.austincc.edu/sl/>
- F. **Personal Support:** Resources to support students are available at every campus. To learn more, ask your professor or visit the campus Support Center. All resources and services are free and confidential. Some examples include, among others:
- Food pantries are located in all campus Student Life offices: <https://sites.austincc.edu/sl/programs/foodpantry/>.
  - Assistance with childcare or utility bills is available at any campus Support Center: <http://www.austincc.edu/students/support-center>.
  - The Student Emergency Fund can help with unexpected expenses that may cause you to withdraw from one or more classes: <http://www.austincc.edu/SEF>.
  - Help with budgeting for college and family life is available through the Student Money Management Office: <http://sites.austincc.edu/money/>.
  - Drop-in child care is available at Highland Campus: <http://www.austincc.edu/students/child-care/child-watch-drop-in-center>

Clinical Counseling services are available throughout the ACC Student Services District to address personal and or mental health concerns: <http://www.austincc.edu/students/counseling>

If an emergency occurs during operational hours, please come to the Student Services Office and let the front intake staff know that you are experiencing a crisis. They will alert appropriate personnel. You may also contact the ACC District Police at 222 (on campus) or (512) 223-7999 (off campus or cell phone).

#### After Hours:

If you are struggling with a mental health or personal crisis, call one of the following numbers to connect with resources for help. However, if you are afraid that you might hurt yourself or someone else, call 911 immediately.

#### Free Crisis Hotline Numbers:

- Austin / Travis County 24 hour Crisis & Suicide hotline: **512-472-HELP (4357)**
- The Williamson County 24 hour Crisis hotline: **1-800-841-1255**
- Bastrop County Family Crisis Center hotline: **1-888-311-7755**
- Hays County 24 Hour Crisis Hotline: **1-877-466-0660**
- National Suicide Prevention Lifeline: **1-800-273-TALK (8255)**
- Crisis Text Line: **Text "home" to 741741**

- Substance Abuse and Mental Health Services Administration (SAMHSA)  
National Helpline: **1-800-662-HELP (4357)**
- National Alliance on Mental Illness (NAMI) Helpline: **1-800-950-NAMI (6264)**