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| **Course, Text,**  **& Instructor** | **IS:187 - Java Programming I – Summer 2016**  ***Text:***  **Introduction to Java Programming, Comprehensive – by Y. Daniel Liang, 10th edition, ISBN: 9780133761313 (retail price: $164.60)**  ***Or:***  ***Murach’s Java Programming – by Joel Murach, 4th Edition, ISBN: 978-1-890774-65-3 (bookstore price = $54.50).***  ***Or:***  Any other comprehensive java text (check with the instructor if you are unsure)  Instructor: **Paul Daniel**, Office: **D326**, Phone: **(314) 644-97**62 e-mail: [pdaniel@stlcc.edu](mailto:pdaniel@stlcc.edu)  Office Hours: M: 5:00-6:00pm (campus); W:7-9pm (campus), T, Th: 9:00-10:00pm (remote); F:  4:00-6:00pm (remote). Or by appointment. |
| **Credits,**  **Prerequisites,**  **& Location** | 4 credit hours  Prerequisites: reading proficiency  Sec. 450 is hybrid, and meets Mondays from 6:00 - 9:20pm in room C-311 at Forest Park  Sec. 474 is fully online (but note in-person final exam requirement below) |
| **Catalog**  **Description** | In this course students learn software development problem-solving methodologies utilizing current software design and development tools and techniques and also receive an introduction to the Java programming language. Topics include data structures, program design, pseudocode, language control structures, procedures and functions, error handling and Object Oriented design using classes. Assignments are developed in Java using a current integrated development environment (IDE). Basic computer literacy expected. |
| **Software &**  **Other Online Resources** | The text and classroom software environment is as follows: Sun Java SE JDK 8 (most current update) with Netbeans 8.x, and the MySQL community server. All software is available free from the Sun/Oracle website: [www.oracle.com](http://www.oracle.com)  Software installation and configuration will be done in class and posted in a recorded lecture.  All other resources needed for the course will be posted on Blackboard, including recorded lectures as discussed below (next section). Blackboard is available at <http://blackboard.stlcc.edu> or from links off the [www.stlcc.edu](http://www.stlcc.edu) homepage (under the ‘MySTLCC’ tab). Your blackboard logon is now tied to your my.stlcc.edu email address, and your assigned email user name is available via the BANNER system (also linked at [www.stlcc.edu](http://www.stlcc.edu)). Instructions for setting your password and gaining access to the blackboard and email systems are available at the main stlcc.edu website. The instructor cannot re-set passwords. |
| **Course Management** | Recorded lectures for parts of each homework assignment will be posted on blackboard. Other materials – particularly those related to program logic and documentation - will also be posted on blackboard, as needed. |
| **Grading & Attendance** | A total of 1000 points will be available in the course. Programming projects, including program design assignments, will typically have a value ranging from 50 to 100 points each for a total of 700 points in the course; a midterm exam worth 50 points will be given as will a final exam worth 200 points. The final 50 points will come from attendance, as discussed below. All programming projects will be based on a ‘specifications’ sheet handed out in class and posted to blackboard (some may come directly from problems suggested in the text). Thus, the grade brackets are as follows:  900 – 1000 points = A (90% or higher)  800 – 899 points = B (80-89%)  700 – 799 points = C  600 – 699 points = D  Below 600 points = F  Per IS Department policy, **NO** grades of 'PR' will be given. Grades of ‘Incomplete’ require documented reason(s) for the circumstances preventing you from completing the course, and you must have already finished at least 75% of the coursework to be eligible. You must appear in person for both the midterm and final exams at the date/time specified unless you have \*prior\* approval from the instructor to take the exams at a different time.  **Attendance:** The district has implemented an attendance tracking policy and system which includes **course suspension (i.e., status change to ‘enrolled but not attending’)** if you have not attended for 14 or more consecutive calendar days. Attendance will be taken each week via an online attendance quiz (on blackboard) and will be worth 6 points for 48 total points; students with perfect attendance will receive 2 additional bonus points, for a maximum of 50 attendance points during the course. |
| **Weekly Topic Outline** | **First Class: Monday June 6, 6:00pm in room C311 at Forest Park**  Week 1: Introduction, software installation, compiling  Understanding Program Structure/design and Development Environments (IDEs)  2: Pseudocode, variable types, and sequential language structures  3: Looping and other control structures  Methods, parameter passing, and additional data structures  4: Methods and Data structures (continued): Arrays and Strings  5: \*\* No Class due to July 4th Holiday \*\*  But recorded lecture on: GUI Forms Development and event handling  6: Beginning OOP principles: business classes, static methods, and  object instantiation  7: Error Handling  Sequential file handling  8: Overloaded methods, including constructors  **Final Exam: Saturday July 30, 9:00-11:30am, room C311 at Forest Park** |
| **Course Level Learning Objectives** | **Upon successful completion of the course, the student will know or understand:**   1. the software development process, its purpose, critical steps, design and documentation standards and tools, and the phases of the application life cycle. 2. the purpose of and process for developing application specifications 3. the management of computer storage in a java application along with basic data structures and the declaration and use of primitive and non-primitive data types. 4. the development of algorithms using basic java language control structures, including at least sequential logic, decision structures, conditional branching, looping, and method calls. 5. the fundamentals of classes and encapsulation, including at least instantiation and implementation of both standard classes and user-defined classes. 6. basic data validation techniques and error handling 7. the development of console and desktop Graphical User Interface (GUI) applications using a current integrated development environment (IDE). 8. basic application debugging techniques |
| **Academic Integrity** | The college has issued an academic integrity statement, along with other guidelines such as class cancellation procedures. All such guidelines are attached at the end of this syllabus; Please review them carefully.  Special note on integrity: although large portions of the homework assignments will be developed during the class sessions and/or recorded lectures, this does not mean that students can electronically share code. In fact, this is expressly forbidden: all students need to work through the assignments on their own – even if doing so in conjunction with a review of a recorded lecture. You learn nothing by simply taking an electronic copy of work from someone else. Still, on projects you may receive help from your instructor and you may ask questions of your classmates. However, if it is determined that you hand in as your own work a project which was developed primarily by someone else, you will receive no credit for that project – and the person who provided you the work will also receive no credit. |
| **Computer Support**  **for IS Students**  **&**  **Students with Disabilities** | The main computer center for IS students is the Academic Data Center located in D-300.  ***Hours of Operation:*** Monday -Thursday 9:00 am to 8:00pm; Friday - 9:00 am to 4:00pm; Saturday - 9:00 am to 4:00pm; Sunday - Closed  ***Note:*** This center provides hardware and software support needed to complete course work but does not provide instruction or tutoring services.  The ACCESS office-Disability Support Services has been designated by the College as the primary office to assist students with disabilities. If any student in the class has need for special testing arrangements, note-taking, or other accommodations, please contact the ACCESS office in room G-215 or by phone at 644-9039. |
| **Make-Up Policies**  **&**  **Assignment Re-submission** | Homework assignments will be given specific due dates during the semester, as we progress through the course material. Assignments received after the due date will be subject to a 5% per week late penalty.  Assignments which receive a score of less than 95% of the assignment value may be revised and re-submitted one time, for an updated score of not more than 95% of the original assignment value. Any extra credit available on assignments will not be awarded until the base assignment grade has reached 90% of the original value.  Quizzes and exams given during the semester must be taken at the time specified; no make-up dates will be allowed except by \*prior\* consent of the instructor. |
| **Severe Weather** | *St. Louis Community College will remain open except under very severe weather conditions. Official announcements will be broadcast on KMOX-AM (1120) Radio, and television Channels 2, 4 and 5. On television, announcements are broadcast as early as possible at the bottom of the screen. Severe weather announcements are announced by campus.*  *You can sign up for text alerts of closings and other emergency information by texting "follow STLCCAlert" (without the quotes) to 40404 - or follow @STLCCAlert on Twitter. Only "alerts" messages will be sent. All other communications will be sent from @STLCC.*  *Updates also will be posted on the home page of the STLCC website and on the main page for each campus as well as a broadcast email when feasible. Below are the procedures for school closing and delayed schedule.*  *COLLEGE IS CLOSED*  *Means all classes are canceled for the day. No classes or labs, library, student center, writing center or any other service will be open. Classes in the evening also are canceled.*  *COLLEGE IS NOT CLOSED BUT IS ON delayed SCHEDULE*  *If a delayed schedule is announced, the location will delay opening until*  *9:30 a.m. Classes beginning before 9:30 a.m. will be canceled for that day.*  *In the absence of any announcement, students should assume the college is operating on its normal schedule. Severe weather closing announcements are also available by calling any campus at the numbers below.*  *Forest Park: 314-644-9463* |
| **Classroom Behavior** | St. Louis Community College is an institution of higher learning. Students are expected to attend classes and engage in course activities. Students and Instructor are to be respected and treated with dignity.  **Be aware of academic policies and requirements.**  Read and follow minimum guidelines for written and oral assignments.  Ask about any requirements or policies that you do not understand.  Keep all handouts, returned work, etc. until you have received your final grade from the registrar.  **Be prepared.**  Take careful notes and routinely study those notes to prepare for tests  Keep up with all assignments and class activities.  **Be punctual.**  Attend class on time.  Attend all conference appointments on time.  Get required work in on time or see instructor if that is impossible.  Be on time for all examinations.  **Be attentive.**  Turn off and store all electronic devices.  Participate in class discussions and activities  **Be respectful.**  Tell instructor if you leave early or arrive late.  If you arrive late, enter quietly and sit in the available seat closest to the door.  Be polite and respect each other and the instructor.  Comments, criticism or, just need to talk, see the instructor during office hours.  **Be serious.**  Work hard.  Ask and respond to questions in a serious manner.  Take responsibility for your attendance, participation and learning in the course.  Make sure that your other responsibilities do not conflict with the class schedule.  Abide by the honor system during exams, quizzes, and in class writing assignments;  do not cheat or assist cheating. |
| **College Policy Statements**  **College Policies (continued)** | College policies are provided in the current course catalog, course schedules and student handbook. The following policies are of particular interest:  **Academic Integrity:**  St. Louis Community College recognizes that the core value of academic integrity is essential to all activities of an academic community and provides the cornerstone for teaching and learning. It is characterized by upholding the foundational principles of honesty, equity, mutual responsibility, respect, and personal integrity. Advancing the principles of academic integrity is essential because doing so enhances academic discourse, the quality of academic work, institutional operations and the assessment of educational goals.  Observing academic integrity involves:   * Maintaining the standards of the college’s degrees, certificates, and awards to preserve the academic credibility and reputation of the college; * Communicating expectations, best practices, and procedures in order to promote the principles of academic integrity and ensure compliance; * Providing environments, instruction, and access to resources necessary for maintaining integrity in learning; * Taking responsibility and personal accountability for the merit and authenticity of one’s work; * Giving proper acknowledgement and attribution to those who directly contribute to a project, or whose work is used in the completion of a project; * Recognizing what compromises academic integrity, whether intentional or unintentional (plagiarism, cheating, uncivil behavior, etc.). * It is the shared duty of faculty, students and staff of the college to understand, abide by and endorse academic integrity.   **Non-Discrimination Statement:**  . Louis Community College is committed to non-discrimination and equal opportunities in its admissions, educational programs, activities and employment regardless of race, color, creed, religion, sex, sexual orientation, national origin, ancestry, age, disability, genetic information or St status as a disabled or Vietnam-era veteran and shall take action necessary to ensure non-discrimination. |
| **College Policies (continued)** | ***Drops and Withdrawals:***  Students are expected to attend classes. Excessive absences may result in a failing grade. Students deciding to withdraw from a class must submit official forms to the Admissions/Registration office. To receive a grade of “W” for the course, the withdrawal process must be completed prior to the end of the College’s 6th week of classes. Last-start and short-term courses have different withdrawal deadlines. Contact the Admissions/ Registration office for appropriate dates. The instructor cannot withdraw students from class. It is always the student’s responsibility to initiate a withdrawal. Students whose status is changed to ‘enrolled by not attending’ by the attendance tracking system must still be assigned a final grade.  ***Academic Appeal Procedures Checklist:***  Please see the Academic Appeals section of the Student Handbook for detailed information about the steps below.  A student may appeal an alleged violation of his/her academic rights in accordance with the following procedures:   * Step 1: Make a verbal or written request for an individual conference with your instructor within 10 working days of the incident/dispute. * Step 2: If the matter is not resolved, within 10 working days of your meeting with the faculty member, make a written request for a conference with the appropriate department chair/program coordinator. * Step 3: If the matter is still not resolved, within 10 working days, appeal to the Division Dean, in writing. * Step 4: If still no resolution, appeal, in writing, within 10 working days, to the Vice President for Academic Affairs using the Student Appeal Form. * Based upon the nature of the appeal, the Vice President for Academic Affairs will investigate the matter and will issue any decisions/actions taken in writing according to Step 4 of the Academic Appeal Procedures detailed in the Student Handbook.   *Note:* In appeal cases not involving a final grade, the vice president for academic affairs’ decision will be final. When the appeal involves a final grade, if the Academic Appeals Hearing Committee is convened, the committee’s decision will be final.  ***Sexual Harassment Policy:***  St. Louis Community College is committed to providing an academic and work environment that is free from sexual harassment. In keeping with this commitment, the college prohibits sexual harassment of any member of the college community. Sexual harassment in any form, including verbal, written, physical or visual harassment will not be tolerated. Sexual harassment may include, without limitation, unwelcome sexual advances, attempts to coerce any member of the college community into a sexual relationship or to punish such persons for refusing to submit to sexual advances, or conduct of a sexual nature which creates an intimidating, hostile or offensive academic or work environment.  Any member of the college community who has a sexual harassment complaint may obtain redress through administrative procedures of the college. The college will respond to sexual harassment complaints promptly and in an equitable manner. All information regarding complaints of sexual harassment is confidential and will be revealed only to those directly involved with the investigation and/or resolution of the complaint. Breaches of confidentiality may result in disciplinary action. Retaliation against anyone who brings a complaint of sexual harassment is prohibited. A student or employee of the college found to have violated this policy will be subject to disciplinary action, up to and including dismissal from the college or termination of employment. |
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| **College Policies (continued)** | ***FERPA Statement:***  The Family Educational Rights and Privacy Act (***“FERPA”***) affords eligible students certain rights with respect to their education records. (An “eligible student” under FERPA is a student who is 18 years of age or older or who attends a postsecondary institution.) These rights include:   1. The right to inspect and review the student's education records within 45 days after the day St. Louis Community College (*“College”*) receives a request for access. 2. The right to request the amendment of the student’s education records that the student believes is inaccurate, misleading, or otherwise in violation of the student’s privacy rights under FERPA. 3. The right to provide written consent before the College discloses personally identifiable information from the student's education records, except to the extent that FERPA authorizes disclosure without consent. 4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by the College to comply with the requirements of FERPA. The name and address of the office that administers FERPA is:   Family Policy Compliance Office  U.S. Department of Education  400 Maryland Avenue, SW  Washington, DC 20202-8520  For more information about records and information that may or may not be disclosed and other information regarding the confidentiality of student records, please see Section G.11 of the College Administrative Procedures.  More information: [http://www.stlcc.edu/Document\_Library/FERPA-Notification.pdf](http://www.stlcc.edu/Document_Library/FERPA-Notifiaction.pdf) |
| **Syllabus Changes** | The course syllabus may be revised and updated at the discretion of the instructor. Students are responsible to have the most up-to-date course schedule. The instructor will announce and post the updated course schedule for students to access through the course Blackboard site. |