IST 209 Section 1: Intro to Computer Programming
Information Systems Technologies/School of Information Systems and Applied Technologies
College of Applied Sciences and Arts /Southern Illinois University at Carbondale
Spring 2015

INSTRUCTOR: XiaoDong Jung
OFFICE: ASA 105, M & W 8:30 – 9:30; T 8:30 – 11:00 A.M. (Other times by e-mail appointment)
PHONE: (618) 453 – 7227 (no voice mail, no answer means I am either in class or off campus)
E-MAIL: xdjing@siu.edu (The most effective way to contact me)
Website: http://www.xdjung.siuc.edu
Mailbox At ISAT main office, ASA 106, 8:30 A.M – 4:30P.M.

CLASS MEETING: M & W, 9:35 – 10:50 A.M. ASA 112C

COURSE DESCRIPTION:
This course is designed to introduce students to the design and development of logical solutions to business information processing problems. Upon completion, students will be able to develop the knowledge of fundamentals of programming, basic Object-Oriented programming and arrays using an appropriate computer programming language.

Lecture and discussion 1.5 hours and lab 1.5 hours.

REREQUISITES: IST 207 or EST 202. Restricted to IST and EST majors.
PREREQUISITES TO: IST 312

STUDENT LEARNING OBJECTIVES: Upon successful completion of this course, the student will be able to:
- Understand programming fundamentals, such as variables, constants, data types, scope, reading keyboard input/display output, input validation, mathematical expressions and logical operators, decision structures, repetition structures and file input/output
- Demonstrate knowledge of using different structures and methods in computer programming
- Demonstrate knowledge of programming methods/functions and modularization
- Understand basic Object-Oriented Programming concepts, such as classes, attributes, methods/operations, objects/instances and UML
- Understand one dimensional array and multi-dimensional arrays
- Create and use arrays with repetition structure in coding
- Develop computer program of increasing complexity

TEXTBOOK REQUIRED:
Storage Media: The use of USB Flash Drive is highly recommended for backup of assignments. Students should not save files to the local computer as the CLC staff may re-image each workstation periodically, causing the loss of files stored there. Please backup your files often. You may need them for future assignments.

SIU Online (Desire2Learn or D2L System)
1. Supplementary information for the course is available at https://online.siu.edu. The Web site contains class notes, PowerPoint slides, class announcements, the course syllabus, online tests and other information for the course.
2. It is your responsibility to check IST209 - 1 on D2L for the updated information regularly.
3. Grades will be posted on D2L “My Grade” after each test is taken. The grade book will show exactly how you are progressing.
4. IST209 - 1 will be available to log in on January 20, 2015. If you are the first time user, SIU Online Helpdesk is available at: http://cte.siu.edu/d2lhelp/
5. Your user name and password for D2L log on are the same as your campus Network ID and password.

GRADING: Grading components consist of quizzes/attendances, homework assignments, discussions, exams and a final exam. Homework assignments include problem sets, programming tasks, and reading/reflection. Students are expected to have read assigned material prior to class.

Graded Activity
<table>
<thead>
<tr>
<th>Activity</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attendance</td>
<td>10%</td>
</tr>
<tr>
<td>Lab Assignment</td>
<td>30%</td>
</tr>
<tr>
<td>Discussion</td>
<td>10%</td>
</tr>
<tr>
<td>Exam</td>
<td>50%</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
</tr>
</tbody>
</table>

Grading Scale
100 – 90: A  89 – 80: B  79 – 70: C  69 – 60: D  59 and below F

A. Policy on Late Assignments (very important!!!): All lab assignments are checked in class on the due date. All other submission methods (such as email...etc) will NOT be accepted and will be marked as a 0. If you fail to show me your lab assignment in class on due date, it will also be marked as a 0. No excuses, no questions asked. Also, all lab assignments should be executable (able to run) and showing the accurate output results. This means your program is free from syntax or logical errors. You cannot submit non-executable or incorrect program, it also counts 0. For each brain-storming lab assignment, you need to get started as soon as possible. All computer programming assignments take time to do and is not possible to finish then when they are done at the last minute. You probably need to strive for quite a few “Trial – Error” and debugging processes before it is completely gratified.
B. **Exams**: Chapters and a final comprehensive exams will be conducted. No make-up examinations will be given.

C. **“Incomplete’ Policy**. An INC is assigned when, for reasons beyond their control, students engaged in passing work are unable to complete all class assignments. Refer to the SIU University Policy on ‘Incomplete’ as a course grade in the 20xx-20xx Undergraduate Catalog, p 32. Incompletes are the prerogative of the instructor, not the students.

**ATTENDANCE POLICY:**
A. Attendance is required, as it is essential for optimal learning experiences in this class. Attendance is taken in every class meeting.
B. Arrive to class on time. Arriving late to class disturbs the class in process. Repeated tardiness may adversely affect your final grade. Tardiness and early departure from class may be regarded as disruptive behavior, and will negatively impact the class participation points. It may also count as an unexcused absence.
C. The only excused absences are documented illness, a death in your immediate family, an official religious holiday (see the University Policy on Accommodating Religious Students, 20xx-20xx Undergraduate Catalog, p. 494), or a documented emergency or natural disaster. Absences beyond these may adversely affect your final grade. If you miss a class, it is your responsibility to obtain material that was covered.
E. Be respectful toward your instructor and classmates. Unprofessional conduct may, at the instructor’s discretion, lead to a deduction of the student’s final grade.

**CLASSROOM USE OF TECHNOLOGY POLICY:**
A. Students may not use cell phones, PDAs, or similar communication devices during class or lab time. Such devices must be silenced or turned off and should not be taken out during meeting time.
B. Electronic communication such as instant messaging, text messaging, web surfing, social networking, etc. is strictly prohibited unless expressly designated as part of the learning activities.
C. Electronic audio or video recording of the classroom environment is prohibited unless permission is granted by the instructor prior to recording.
D. Laptops or other electronic devices may be used for note-taking or specific course activities with the instructor’s permission. Students must turn off the wireless function and close all applications/windows other than the appropriate application for note-taking or class activities.

**UNIVERSITY POLICIES:**
**Academic Integrity.** Students are expected to submit original work and adhere to the academic policies as stated in the SIU Student Conduct Code: policies.siu.edu/policies/conduct.html. Any act of academic dishonesty, cheating, or plagiarism in any form, including anonymous internet sources used in student papers, will be reported. These acts are taken seriously and the consequences may range from failing an assignment to expulsion from the university.
Cheating: I strongly encourage the sharing of knowledge. I expect you to help your peers. However, a student may not use or copy (by any means) another's work (or portions of it) and represent it as his/her own. This will be considered an Act of Academic Dishonesty. All students are expected to follow the SIU Student Conduct Code and the ISAT Policy on Academic Dishonesty (below). Please visit the Student Rights and Responsibilities at http://srr.siu.edu. In addition, see the Morris Library Guide on Plagiarism: http://libguides.lib.siu.edu plagiarism, and the SIU Student Conduct Code at http://policies.siu.edu/_common/documents/StudentConductCode.pdf

ISAT POLICY ON ACADEMIC DISHONESTY:
The Student Conduct Code of SIU clearly spells out the University policy on Academic Dishonesty. Courses involving the use of the computer require extra consideration, because computer work is easily copied. This school policy is intended to provide additional guidelines for such cases. A copy of this policy will be included in the school student handbook and will also be available on the ISAT website. Each faculty member will have a copy for his or her own use and for distribution to students.

Definition of Academic Dishonesty
We define academic dishonesty to mean turning in material created by someone else and representing it as your own work or permitting others to represent your work as their own. The following guidelines may be used to help in determining whether or not academic dishonesty has occurred:
1. The student turns in work (i.e., computer work) that is identical to or extremely similar to work turned in by another student or students, unless identical work is the expected norm.
2. When confronted, the student cannot explain the details of his or her work and the methods used to arrive at the solution.

Some Examples:
Academic Dishonesty has occurred:
• When a student turns in work created by someone else and represents it as his or her own work.
• When a student permits someone else to turn in his or her work and represent it as his or her own work.
• When a student copies work from another student.
• When a student copies answers from another student on a quiz, exam, or test.
• When a student uses notes or materials of any kind during a quiz, exam, or test (unless it is announced by the instructor as “open notes” or “open book”).
• When a student deliberately changes parts of computer work in an attempt to disguise the origin.
• When two or more students collaborate on a project that is supposed to be completed individually.

Academic Dishonesty has not occurred:
• When students have the instructor’s permission to collaborate on a project.
• When students receive appropriate help from instructors, graduate assistants, or other staff members involved with the course.
• When students help each other with syntax errors or other application-specific information that makes computer work easier.
• When students participate in a general discussion about the assignment, such as discussing the requirements for the assignment or general strategies for completion of the assignment.
Penalty for Academic Dishonesty
- **First offense**: from a zero on the specific lab/assignment/project/exam to course grade of F.
- **Second offense**: from course grade of F to suspension from the school.
- **Third offense**: permanent suspension from the school.

Records of academic dishonesty will be maintained in the student’s file in the school advisor’s office, as well as in a master academic dishonesty file in the school director's office. When an incidence of academic dishonesty occurs, the faculty member will meet with the school director to discuss the situation and determine the appropriate penalty.

B. **SIU Email.** Your SIU email account is an official form of University communication. Your instructor will use SIU email as a primary means of electronic communication with our students. Please make sure that you maintain a valid password and acquire the habit of regularly checking your SIU email account for important instructor and University announcements. You may view the official SIU Student Email Policy at: [policies.SIU.edu/policies/email.html](policies.SIU.edu/policies/email.html)

C. **Statement on Inclusive Excellence.** SIU contains people from all walks of life, from many different cultures and sub-cultures, and representing all strata of society, nationalities, ethnicities, lifestyles, and affiliations. Learning from and working with people who differ from you is an important part of your education in this class, as well as an essential preparation for any career.

D. **Emergency Procedures.** SIU is committed to providing a safe and healthy environment for study and work. Because some health and safety circumstances are beyond our control, we ask that you become familiar with SIU Emergency Response Plan and Building Emergency Response Team (BERT) program. Emergency response information is available on posters in buildings on campus, available on BERT’s website at bert.siu.edu, the SIU Department of Public Safety’s website [dps.siu.edu](dps.siu.edu) (disaster drop down and video, “Shots Fired”), and in the Emergency Response Guideline pamphlet. Know how to respond to each type of emergency. Instructors will provide guidance and direction to students in the classroom in the event of an emergency affecting your location. **It is important that you follow these instructions and stay with your instructor during an evacuation or sheltering emergency.** The Building Emergency Response Team will provide assistance to your instructor in evacuating the building or sheltering within the facility.

E. **Supplementary Assistance.** SIU is committed to assisting students with disabilities. With the cooperation of SIU’s Disability Support Services (DSS), each student who qualifies for reasonable supplementary assistance has the right to receive it. Students requesting supplementary assistance must first register with DSS in Woody Hall, B-150, 618-453-5738 or 618-453-2293 (TTY), by email DSS@siu.edu, or disabilityservices.siu.edu. Notice: If you have any type of special need(s) or disability for which you require accommodations to promote your learning in class, please contact me as soon as possible.

**STUDENT SERVICES:**
A. **Learning Support Services.** The Center for Learning Support Services (CLSS) assists students of all cultures, abilities, backgrounds and identities with enhancing their self-management and interdependent learning skills. Programs offered by CLSS include; group study sessions; math tutoring; academic coaching; early
intervention program; and study skills seminars. For additional information please contact CLSS in Woody Hall, Room A-313, 618-453-2925, or tutoring.siu.edu.

B. Writing Center. The Writing Center offers free tutoring services and assistance with improving writing skills to all SIU undergraduate and graduate students and faculty. For center locations and hours, to schedule an appointment online, and to view information regarding the Online Writing Lab (OWL) contact the Writing Center at 618-453-1231 (Morris Library location); 618-453-2927 (Trueblood location), or write.siu.edu.

C. Saluki Cares. The purpose of Saluki Cares is to develop, facilitate and coordinate a university-wide program of care and support for students in any type of distress-physical, emotional, financial, or personal. By working closely with faculty, staff, students and their families, SIU will continue to display a culture of care and demonstrate to our students and their families that they are an important part of the community. To make a referral to Saluki Cares click, call, or send: salukicares.siu.edu; (618) 453-5714, or siucares@siu.edu.

The instructor reserves the right to make changes as may be required to the course syllabus. Students will be notified of syllabus changes.

**IST 209– Intro to Programming**  
Schedule of Class Activities  
ASA 112 C M & W 9:35 – 10:50 A.M.

(Next 2 pages)
<table>
<thead>
<tr>
<th>IST 209-1</th>
<th>Monday (Lecture/Lab)</th>
<th>Wednesday (Discussion/Lab/test)</th>
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</thead>
<tbody>
<tr>
<td>Week 1</td>
<td>• Holiday (No class)</td>
<td>• Pass out syllabi, Student Info Sheet</td>
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<tr>
<td>1/19, 21</td>
<td>• “A good beginning is half done”</td>
<td>• Overview textbook</td>
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<tr>
<td></td>
<td>• “A good beginning is half done”</td>
<td>• Pretest (required, no preparation)</td>
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<tr>
<td>Week 2</td>
<td>• Ch1: Intro to Java</td>
<td>• Ch1 Discussion</td>
</tr>
<tr>
<td>1/26, 28</td>
<td>• Ch1 Discussion Questions and Lab Assignment Assigned</td>
<td>• Ch1 Lab (VERY IMPORTANT: <em>Your First Java Program</em>)</td>
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<td>• Lab (VERY IMPORTANT: How to install JDK and Eclipse IDE for Java EE Developers and how to start a Java project)</td>
<td>• Ch1 Lab due and check in class</td>
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<td>• All Lab Assignments are due and checked in class (No other methods can be accepted.) Normally due on Monday (one week after each chapter introduced)</td>
<td>(no makeup lab is given)</td>
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<tr>
<td>Week 3</td>
<td>• Ch2_1: Java Fundamentals (part 1)</td>
<td>• Ch2_1 Discussion</td>
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<tr>
<td>2/2, 4</td>
<td>• Ch2_1 Discussion Questions &amp; Lab assigned</td>
<td>• Lab (Lab2_1)</td>
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<td></td>
<td>• Lab</td>
<td>• Check Ch2_1 Lab in class (*if you get it done already)</td>
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<tr>
<td>Week 4</td>
<td>• Ch2_2: Java Fundamentals (part 2)</td>
<td>• Ch2_2 Discussion</td>
</tr>
<tr>
<td>2/9, 11</td>
<td>• Ch2_2 Discussion Questions &amp; Lab assigned</td>
<td>• Lab (Ch2_2)</td>
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<td>• Ch2_1 Lab due (or 0 point will be given)</td>
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<td>• Lab (should start working on the new lab)</td>
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<tr>
<td>Week 5</td>
<td>• Test 1 Review</td>
<td>• Test 1 (Ch1 &amp; 2)</td>
</tr>
<tr>
<td>2/16, 18</td>
<td>• Type of test announced in class</td>
<td>• Current Grade Total posted by 1/23</td>
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<tr>
<td></td>
<td>• Ch2_2 Lab due</td>
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<td>Week 6</td>
<td>• Ch3_1: Decision Structures (part 1)</td>
<td>• Ch3_1 Discussion</td>
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<tr>
<td>2/23, 25</td>
<td>• Ch3_1 Discussion Questions &amp; Lab assigned</td>
<td>• Lab (Ch3_1)</td>
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<td>• Lab</td>
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<tr>
<td>Week 7</td>
<td>• Ch3_2: Decision Structures (part 2)</td>
<td>• Ch3_2 Discussion</td>
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<tr>
<td>3/2, 4</td>
<td>• Ch3_2 Discussion Questions &amp; Lab assigned</td>
<td>• Lab (Ch3_2)</td>
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<td></td>
<td>• Lab</td>
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<tr>
<td>Week 8</td>
<td>• Spring Break</td>
<td>• Spring Break</td>
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<tr>
<td>3/9, 11</td>
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</tbody>
</table>
| Week 9 | 3/16, 18 | • Ch4_1: Loop and Files (part 1)  
• Ch4_1 Discussion Questions & Lab assigned  
• Ch3_2 Lab due  
• Lab  | • Ch4_1 Discussion  
• Lab (Ch4_1) |
| --- | --- | --- | --- |
| Week 10 | 3/23, 25 | • Ch4_2: Loop and Files (part 2)  
• Ch4_2 Discussion Questions & Lab assigned  
• Ch4_1 Lab due  
• Lab  | • Ch4_2 Discussion  
• Lab (Ch4_2) |
| Week 11 | 3/30, 4/1 | • Test 2 Review  
• Type of test 2 announced in class  
• Ch4_2 lab due  
• Lab  | • Test 2 (Ch3 & 4)  
• Current Grade Total posted by 4/6 |
| Week 12 | 4/6, 8 | • Ch5_1: Methods (Part 1)  
• Ch5: Discussion Questions & Lab assigned  
• Lab  | • Ch5_1 Discussion  
• Lab (Ch5_1) |
| Week 13 | 4/13, 15 | • Ch5_2: Methods (Part 2)  
• Ch5: Discussion Questions & Lab assigned  
• Ch5_1 lab due  
• Lab  | • Ch5_2 Discussion  
• Lab (Ch5_2) |
| Week 14 | 4/20, 22 | • Ch7_1: Array (1D Array)  
• Ch7_1 Discussion Questions & Lab assigned  
• Ch5_2 lab due  
• Lab  | • Ch7_1 Discussion  
• Lab (Ch7_1) |
| Week 15 | 4/27, 29 | • Ch7_2: Array (2D Array)  
• Ch7_2 Discussion Questions & Lab assigned  
• Ch7_1 lab due  
• Lab  | • Ch7_2 Discussion  
• Lab (Ch7_2) |
| Week 16 | 5/4, 6 | • Final Exam Review  
• Class Evaluation  
• Lab  | • Ch7_2 lab due |
| Week 17 | 5/11 - 15 Finals | • Final Exam (Comprehensive, focus on Ch5 and 7)  
• Wednesday (5/13), 10:15 A.M. - 12:15 P.M.) |