ITE 221: Programming I

Ehsan Ali
Stamford International University (Thailand)
ehssan.aali@gmail.com

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Motivative quote: "He who has a why to live can bear almost any how." - Friedrich Nietzsche -

Class Schedule:

- Wednesday 8:30 - 12:30
- First session starts on 17-Mar-2021
- Room: 2506 (Building 2 -Second floor)
- Current Status: Major course

Instructor Office: part-time

Exam Dates:

- Midterm:
  - Wednesday 08:30 - 11:30, 28-Apr-2021
- Final:
  - Wednesday 08:30 - 11:30, 30-Jun-2021

Prerequisite: ITE 131 Data Structures and Algorithm (Therefore, I expect you to have general knowledge on data structures and algorithms)

Objective: Upon successful completion of this course, you will be able to:

1. Apply classical and object-oriented techniques for solving computer-related problems.
2. Design and implement well-structured algorithms and user-friendly interfaces.
3. Decompose problems into well-defined components with appropriate linkages and error-checking.
4. Describe the concepts of abstract data types and objects.
5. Utilize the basic control structures and data types of procedural and object-oriented languages.
6. Thoroughly trace, test, and document computer programs.

Textbooks: Not required. Although the following books can be very helpful:

- Building Java Programs: A Back to Basics Approach, Global Edition, 4/E Stuart Reges and Marty Stepp. 2017. Pearson Education, ISBN-10: 129216168X, ISBN-13: 9781292161686
- Introduction to Programming with Java: A Problem Solving Approach, 2/E, John Dean and Raymond Dean. 2013. McGraw-Hill, ISBN 978-1-259-06048-9

Grading System:	Attendance:	10%
	Assignments:	20%
	Project:	15%
	In class tasks:	10%
	Midterm:	20%
	Final:	25%

FAQs:

How can I get 'A' in this subject? Achieve a score of 80% or above.

How to fail this course? Do not attend the classes, do not participate in mid-term and final exams, and do not submit any assignments. As you see it is extremely hard to fail this course!

Attendance Policy: If you miss more than 20% of class meetings, (5 sessions), for any reason, you will not be allowed to take the final exam. If you arrive within the 10 to 30 minutes of class you will be considered late, after 30 minutes you will be counted absent. Two late arrivals will constitute one absence. In case you are late or absent: It is your responsibility to get the class materials and handouts. In nearly every case, class handouts will be available on the eLearning web site. No make-up or extra credit work will be accepted.

Cheating Policy You are expected to uphold Stamford International University's standard of conduct relating to academic honesty as described in the STIU Student Handbook. You assume full responsibility for the content and integrity of the academic work you submit. The guiding principle of academic integrity shall be that a student's individual course deliverables, examinations, reports, and projects must be that of the student's own work. You shall be guilty of violating the honor code if you:

1. Plagiarize, i.e. represent the work of others as your own.
2. Use or obtain unauthorized assistance in any academic work, including exams
3. Give unauthorized assistance to other students; this includes giving your program to another student
4. Modify, without instructor approval, an examination, paper, record, program, or report for the purpose of obtaining additional credit.
5. Misrepresent the content of submitted work.

The penalty for violating the university's honor code is severe. Any student violating the honor code is subject to receive a failing grade for the assignment or the course and will be reported to the Office of Student Affairs. Cheating on the midterm or final exam results in immediate failure in all registered courses for the current term. If you are unclear about whether a particular situation may constitute an honor code violation, you should discuss it with the lecturer.

For this class, general advice and interaction are encouraged. In-class labs will be done in pairs, and programming assignments outside of class will be done individually. In

other words, you may not "work together" on assignments labeled individual. Unauthorized collaboration constitutes cheating. You may not use or copy (by any means) another's work (or portions of it) and represent it as your own. Be sure to contact the lecturer early, if you need help with an assignment.

Important URLs:

- e-Learning website: https://learn.stamford.edu/
- Line Group: (Will be created in first session)

Lecture topics:

- Week 0 (17-Mar-2021): Introduction to Computer Programming
- Week 1 (24-Mar-2021): Introduction to Java Programming
- Week 2 (31-Mar-2021): Primitive Data Types, Objects Operators and Scanner
- Week 3 (07-Apr-2021): Conditional Statements - Switch
- Week 4 (21-Apr-2021): Definite and Indefinite Loops
- Week 5 (28-Apr-2021): Midterm Exam
- Week 6 (05-May-2021): Text Processing Arrays
- Week 7 (12-May-2021): Methods and Parameters
- Week 8 (19-May-2021): Recursion File Processing
- Week 9 (02-Jun-2021): Introduction to Object-Oriented Programming
- Week 10 (09-Jun-2021): Work on Project
- Week 11 (16-Jun-2021): Work on Project
- Week 12 (23-Jun-2021): Review
- Week 13 (30-Jun-2021): Final Exam