

Course Syllabus

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| 1. Program of Study | Bachelor of Business Administration Program |
| Faculty/Institute/College | Mahidol University International College |
| 2. Course Code | ICIS 382 |
| Course Title | Object-Oriented Programming |
| 3. Number of Credits | 4 (Lecture/Lab) (3-2-7) |
| 4. Prerequisite(s) | ICIS 210, ICIS 381 |
| 5. Type of Course | Required Course |
| 6. Trimester / Academic Year | First, Second Trimester/2007-2008 |
| 7. Course Conditions | 20-40 students |
| 8. Course Description | Studies the use of object-oriented programming languages in the development of modern, business applications. Topics include object-oriented design, encapsulation, object interfaces, inheritance, aggregation, abstract classes, polymorphism, data structures and exception handling. |
| 9. Course Objective(s) | After successful completion of this course, students will be able to |
| | 9.1 Studying concepts and principles of object-oriented programming. |
| | 9.2 Understanding how to properly apply object-oriented programming: concepts and techniques in the development of business application. |
| | 9.3 Being able to adopt object-oriented programming language in building an effective business application. |

10. Course Outline

Week	Course Outline				Instructor
	Topics	Lecture	Lab	Self-Study	
1	Introduction to Object-Orientation: Concepts and Principles	3	2	7	CVS
2	Java Fundamentals	3	2	7	CVS
3	Introducing data Types and Operators	3	2	7	CVS
4	Program Control Statements	3	2	7	CVS
5	Introducing Classes, Objects, and Methods	3	2	7	CVS
6	More Data Types and Operators	3	2	7	CVS
7	Inheritance	3	2	7	CVS
8	Polymorphism	3	2	7	CVS
9	Exception handling	3	2	7	CVS
10	Using I/O	3	2	7	CVS
11	Connecting to Databases	3	2	7	CVS
	Total	33	22	77	

11. Teaching Method(s)

Lecture and discussion with lab exercises

12. Teaching Media

Handouts

Computer software (hands on learning)

13. Measurement and Evaluation of Student Achievement

Students achievement is measured and evaluated by

- 13.1 The ability to understand concepts and principles of object-oriented programming.
- 13.2 The ability to understand how to properly apply object-oriented programming: concepts and techniques in the development of business application.
- 13.3 The ability to be able to adopt object-oriented programming language in building an effective business application.

Student's achievement will be graded according to the faculty and university standard using the symbols: A, B+, B, C+, C, D+, D, and F.

Student must have attended at least 80% of the total class hours of this course.

Ratio of mark

1. Midterm	20%
2. Final	35%
3. Group project	25%
4. Assignment	20%
5. Class Attention	10%

14. Course Evaluation

14.1 Students' achievement as indicated in number 13 above.

14.2 Students' satisfaction towards teaching and learning of the course using questionnaires.

15. Reference(s)

Schildt, H. (2001). **Java™ 2: A Beginner's Guide**, Osborne/McGraw-Hill, USA.

Horstmann, C.S. and Gary Cornell (2001). **Core Java™ 2: Volume I-Fundamentals**, Sun Microsystems, Inc., USA.

J.McGovern (2003). **Java 2 Enterprise Edition 1.4 Bible**.

C.T. Arrington (2001). **Enterprise Java with UML**.

16. Instructor(s)

Chaivatna Sumetphong

17. Course Coordinator

Program Director of Information Systems Major