



EFFECTIVE: MAY 2004
CURRICULUM GUIDELINES

A. Division: **Instructional** Effective Date: **June 2004**

B. Department / **Commerce & Business Admin.** Revision New Course
 Program Area: **Information Technology**

If Revision, Section(s) Revised:
 Date of Previous Revision:
 Date of Current Revision:

C: **ITEC 3360** D: **PROGRAMMING WITH JAVA** E: **3**

Subject & Course No.	Descriptive Title	Semester Credits
F: Calendar Description: This course will provide the student with knowledge of basic to more advanced features of the Java programming language. Topics will range from basic syntax to graphics and how Java handles multimedia, such as animation and sound. Also discussed are the Object Oriented aspects of the language as well as multi-threading, applets, interactivity and event handling. Students will write, compile and run Java programs as stand-alone applications and as applets to be incorporated in web pages to be run over the Internet.		
G: Allocation of Contact Hours to Type of Instruction / Learning Settings Primary Methods of Instructional Delivery and/or Learning Settings: <p style="text-align: center;">Lectures and Laboratory</p> Number of Contact Hours: (per week / semester for each descriptor) <p style="text-align: center;">Lecture: 4 Hours Laboratory: 4 Hours Total: 8 Hours</p> Number of Weeks per Semester: <p style="text-align: center;">12 Weeks</p>	H: Course Prerequisites: <p style="text-align: center;">ITEC1260</p>	
	I: Course Corequisites: <p style="text-align: center;">Nil</p>	
	J: Course for which this Course is a Prerequisite <p style="text-align: center;">Nil</p>	
	K: Maximum Class Size: <p style="text-align: center;">20</p>	
L: PLEASE INDICATE: <input type="checkbox"/> Non-Credit <input type="checkbox"/> College Credit Non-Transfer <input checked="" type="checkbox"/> College Credit Transfer: SEE BC TRANSFER GUIDE FOR TRANSFER DETAILS (www.bccat.bc.ca)		

M: Course Objectives / Learning Outcomes

The student will be able to:

1. explain the uses, the syntax and the object oriented aspects of the Java programming language;
2. develop and write Java programs as stand-alone applications and as applets;
3. demonstrate the use of Third party software development tool /Java Development Kit to develop Java programs;
4. enhance web pages by including interactivity and multimedia features Java applets.

N: Course Content:

1. History of Java.
2. Object oriented aspects of the Java programming language.
3. Usage of Third party software development tool/Java Development Kit.
4. Use of the Internet Explorer/Netscape browser to upload web pages with Java applets.
5. Java basic data types.
6. Flow of control.
7. Objects and classes.
8. Methods and constructors.
9. Packages and interfaces.
10. The basics of Java applets.
11. Applet user interfaces by using the Abstract Window Toolkit.
12. Event handling and interactivity.
13. Graphics.
14. Java animation and sound.
15. File processing.

O: Methods of Instruction

Concepts and techniques will be discussed in class. Students will complete tutorials and assignments during supervised lab time and on their own.

P: Textbooks and Materials to be Purchased by Students

Joyce Farrell/Don Gosselin: **Java Programming with Microsoft Visual J++ 6.0 (Comprehensive)**
Pub: ITP Course Technology

Q: Means of Assessment

Assignments (2-6)	20%-30%
Midterm Examination	25%-30%
Final Examination	25%-30%
Participation	0%-05%
Quizzes (2-3)	<u>10%-20%</u>
	<u><u>100%</u></u>

R: Prior Learning Assessment and Recognition: specify whether course is open for PLAR

YES

Course Designer(s) **Gilbert Tsui**

Education Council / Curriculum Committee Representative

Dean / Director **Rosilyn Coulson**

Registrar **Trish Angus**

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