

SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ONTARIO



Sault College

COURSE OUTLINE

COURSE TITLE: Visual Basic - Prototyping
CODE NO. : CSD301 **SEMESTER: 6**
PROGRAM: Computer Programmer/Analyst
AUTHOR: Willem de Bruyne
DATE: 01/01/06 **PREVIOUS OUTLINE DATED:** 01/01/05
APPROVED:

DEAN **DATE**
TOTAL CREDITS: FIVE
PREREQUISITE(S): CSD321 & CSD300
HOURS/WEEK: FOUR

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For additional information, please contact Colin Kirkwood, Dean
School of Technology, Skill Trades and Natural Resources
(705) 759-2554, Ext. 2688

I. COURSE DESCRIPTION:

This course is an extension of the CSD300 and CSD321 Visual Basic courses. Students were taught Microsoft's Visual Basic .NET. The course All learning styles will be addressed by having the students learn by using manuals; lectures; small group work; online referencing, step-by-step exercises, as well as the development of a real life computer system.

The development of the computer system will place the students in a project team and complete the analysis, design, development and the implementation of a computer based system using Visual Basic, Crystal Reports and a database tool to handle file storage. The nature of the projects are real life, therefore, there is a Community Value Added component of the course. The instructor will secure a project that will involve a non-profit organization or a small business within Sault Ste. Marie. The students must work closely with the business acting as the primary end -users.

The students have gained a solid background in data base design, programming, and systems analysis and design, as well as working in small teams to complete project work. This course will bring all of these curriculum components together and challenge the students with real life projects that will prepare them for their computer profession.

II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

1. Major Project Spec's

Potential Elements of the Performance:

- Create Service Request
- Develop the problem statement
- Establish project priorities
- Establish a method to study the present system
- Organize the products of the study
- Review existing procedures
- Observing current operations
- Perform interviews and walkthroughs
- Create data flow diagrams
- Define the prototype
- Build prototyped reports, screens, functions, controls and any interfaces.

- Define the database structure and contents, from table definitions and keys identified, to attributes.
- Ensure data normalization
- Describe types of data validation and verification techniques
- Identify different reporting types
- Identify output formats
- Create the required windows interfaces.
- Design any required coding techniques, code each object and any functions and modules.
- Develop and enter test data
- Establish version controls
- Establish documentation procedures, and creation of user guide
- Identify the hardware the system will eventually reside on.
- Monitor team member progress.
- Establish milestones and monitor progress.
- Train end users
- Establish a conversion process.
- Ensure operating acceptance
- Establish responsibilities for making revisions.
- Establish backup procedures.

2.

IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

Note: These text books have already been purchased in the previous courses.

MICROSOFT Visual Basic .NET Comprehensive Concepts and Techniques *Authors: Shelly, Cashman, Quasney*

Advanced Visual Basic.NET 3rd Ed., by: Kip Irvine

Instructor Handouts/e-mail attachments/web sites

V. EVALUATION PROCESS/GRADING SYSTEM:

The mark for this course will be arrived at as follows:

Major Project all project components equate to 100%

The following semester grades will be assigned to students in postsecondary courses:

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	Grade	<u>Definition</u>	<i>Grade Point Equivalent</i>
	A+	90 – 100%	4.00
	A	80 – 89%	
	B	70 - 79%	3.00
	C	60 - 69%	2.00
	D	50 – 59%	1.00
	F (Fail)	49% and below	0.00
	CR (Credit)	Credit for diploma requirements has been awarded.	
	S	Satisfactory achievement in field /clinical placement or non-graded subject area.	
	U	Unsatisfactory achievement in field/clinical placement or non-graded subject area.	
	X	A temporary grade limited to situations with extenuating circumstances giving a student additional time to complete the requirements for a course.	
	NR	Grade not reported to Registrar's office.	
	W	Student has withdrawn from the course without academic penalty.	

VI. SPECIAL NOTES:Special Needs:

If you are a student with special needs (e.g. physical limitations, visual impairments, hearing impairments, or learning disabilities), you are encouraged to discuss required accommodations with your instructor and/or the Special Needs office. Visit Room E1204 or call Extension 493 so that support services can be arranged for you.

Retention of course outlines:

It is the responsibility of the student to retain all course outlines for possible future use in acquiring advanced standing at other postsecondary institutions.

Plagiarism:

Students should refer to the definition of “academic dishonesty” in *Student Rights and Responsibilities*. Students who engage in “academic dishonesty” will receive an automatic failure for that submission and/or such other penalty, up to and including expulsion from the course/program, as may be decided by the professor/dean. In order to protect students from inadvertent plagiarism, to protect the copyright of the material referenced, and to credit the author of the material, it is the policy of the department to employ a documentation format for referencing source material.

Course outline amendments:

The Professor reserves the right to change the information contained in this course outline depending on the needs of the learner and the availability of resources.

Substitute course information is available in the Registrar's office.

Other Special Notes:

- Students will receive a grade of zero for late assignments unless prior permission is granted from the instructor.
- Students are expected to attend classes on a regular bases and treat their peers and instructors in a business like manner.
- Students are expected to inform the instructor via phone or e-mail if they are unable to attend class. Failure to comply will result in a 2% penalty for each occurrence.
- Students missing a test will receive a grade of zero unless prior permission is granted from the instructor

VII. PRIOR LEARNING ASSESSMENT:

Students who wish to apply for advanced credit in the course should consult the professor. Credit for prior learning will be given upon successful completion of a challenge exam or portfolio.

VIII. DIRECT CREDIT TRANSFERS:

Students who wish to apply for direct credit transfer (advanced standing) should obtain a direct credit transfer form from the Dean's secretary. Students will be required to provide a transcript and course outline related to the course in question.