



Business Information Systems - Diploma

PLAR Candidate Guide

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How to navigate this document

This document contains links to other document sections or webpages. To return to where you were from another section in this document, press the *ALT* key and *left arrow* key at the same time. To return to this webpage from another webpage, close the other webpage or click back on the browser tab for this document.

Contents of this guide

This guide contains the following specific PLAR information and tools for this program

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- C. [Dates when PLAR assessment is available](#)
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A. PLAR fees

Fees for PLAR challenges are set to cover our costs for consultation, assessment, and related administrative tasks. PLAR fees are non-refundable and non-transferrable.

The PLAR fees policy is subject to change for each new academic year. Please see the **Cost** section on the [PLAR webpage](#) for current fee information.

B. PLAR eligibility and options

You must consult with the [PLAR contact person](#) and be approved for PLAR assessment.

Course prerequisites and corequisites

Some courses have one or more other courses that must be completed first (prerequisite) or at the same time (corequisite). See [course outlines](#) in this guide to identify any pre- or co-requisites for each course. Discuss with your [PLAR contact person](#) how to deal with courses with corequisites.

Block assessment

Some programs may assess a cluster of courses together in one block, which may save you time and effort. Ask the [PLAR contact person](#) whether there are any block assessment options in this program.

C. Dates when PLAR assessment is available

PLAR assessment for this program is available from Sept 1 to June 15 in each academic year.

All PLAR assessment must be completed by June 15 of each academic year.

D. Special directions for this program

1. **Review** the [PLAR process and FAQs](#) and the information in this guide.
2. **Self-rate** your learning for each course using the [Course Outlines](#) in this guide.
3. **Consult** with the [PLAR contact person](#) for PLAR approval. Be prepared to provide your resume, course self-ratings (see [section F](#)), and a partially completed [PLAR application](#). If you are approved for PLAR, the contact person will sign your PLAR application and explain next steps.
4. **Register** for PLAR at [Registration/Enrolment Services](#) once you have signed approval on your [PLAR Application Form](#). The PLAR fee will be added to your student account.
5. **Finalize** a detailed Assessment Plan with your assigned assessor.
6. **Complete** assessment before your PLAR registration expires.

E. PLAR contact person

Contact the person below to arrange a consultation **after** you have read this guide and [general PLAR information](#) and rated yourself for each course (see next session). Consultation may be by phone, online, or in person. Be prepared to

provide your resume, course self-ratings, and a partially completed [PLAR application](#). If agreement is reached to go ahead with PLAR, the contact person will sign approval on your PLAR application and explain the next steps. Admission to the program is required before you can register for PLAR.

<p>Michael Barclay, Acting Program Head Business Information Systems Saskatchewan Polytechnic, Moose Jaw Campus Phone: 306-691-8250 Email: barclay7342@saskpolytech.ca</p>	<p>Gavin Osborne, Academic Chair/Bill Walsh, Academic Chair Business Information Systems Saskatchewan Polytechnic, Moose Jaw, and Regina Campuses Phone: 306 – 691 - 8249; 306-535-3680 Email: osborne@saskpolytech.ca; walsh@saskpolytech.ca</p>
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Note: If the course you would like to PLAR is delivered by another program, click on that program’s Candidate Guide (see below) to find your PLAR contact person.

F. Self-rating course outlines

Clicking on a course code below opens a page where you can rate yourself on the knowledge and skills assessed for PLAR credit. For Arts & Sciences courses, clicking on the course code opens another PLAR guide. The [PLAR contact person](#) for this program will refer you to another person to discuss PLAR for courses delivered by Arts & Sciences or another program/department.

COURSE CODE	COURSE NAME	Delivered by another department/program
Semester 1		
ACCT 122	Introductory Financial Accounting 1	Business Diploma
BCOM 120	Business communications 1	
COMP 122	Introduction to Programming for Information Systems	
COMP 123	Introduction to Business Computing	
COMP 255	Visual Application Development	
STAT 120	Business Statistics	Arts & Sciences
Semester 2		
ADMN 220	Organizational Behaviour	Business Diploma
COMP 215	Internet Application Development 1	
COMP 233	Object Oriented Programming Concepts	
COMP 234	Database	
COMP 249	Information Security, Privacy and Ethics	

COURSE CODE	COURSE NAME	Delivered by another department/program
COMP 254	Computer Architecture and Data Communications	
JOBR 120	Job Readiness	
COOP 150	Co-operative Education Work Term	
Semester 3		
COMP 214	Project Management	
COMP 235	Internet Application Development 2	
COMP 236	Operating Systems and Environment Configuration	
COMP 237	Systems Analysis and Requirements Management	
COMP 258	Object Oriented Software Development	
COMP 259	Mobile Application Development 1	
Semester 4		
ACCT 225	Managerial Accounting	Business Diploma
ADMN 209	Organizational Change	Business Diploma
BCOM 121	Business Communication 2	
COMP 253	Systems Project	
COMP 262	Mobile Application Development 2	

ACCT 122 - Introductory Financial Accounting 1

Your studies will focus on an introduction to financial accounting designed to provide you with accounting skills to handle business transactions. The course will include bookkeeping techniques, accounting for a merchandising concern and control over cash and receivables. ACCT 122 is a companion to ACCT 125 (Introductory Financial Accounting 2) which continues the study of basic financial accounting.

Credit unit(s): 5.0
Pre Requisites: none
Co Requisites: none
Equivalent course(s): ACCT 122CE

<p>Use a checkmark (✓) to rate yourself as follows for each learning outcome</p> <p>Competent: I can apply this outcome without direction or supervision. Learning: I am still learning skills and knowledge to apply this outcome. None: I have no knowledge or experience related to this outcome.</p>	Competent	Learning	None
1. Describe accounting and its uses.			
2. Apply the "Accounting Equation" to business transactions.			
3. Prepare business transactions for a service company.			
4. Prepare period-end adjustments.			
5. Implement period-end accounting procedures.			
6. Demonstrate accounting for a merchandising company.			
7. Apply alternative methods of valuing inventories.			
8. Apply procedures for internal control over cash.			
9. Prepare transactions relating to receivables.			
10. Describe ethical accounting practices.			

BCOM 120 - Business Communications 1

You will develop fundamental employability skills by studying the principles of communication. The course content includes developing effective writing skills. You will apply the principles and skills by writing letters and memorandums for routine and negative purposes. You will develop teamwork employability skills and examine ways to apply communication skills to team and cross-cultural situations.

Credit unit(s): 4.0
Pre Requisites: none
Co Requisites: none
Equivalent course(s): BCOM 104, TCOM 102, TCOM 180

<p>Use a checkmark (✓) to rate yourself as follows for each learning outcome</p> <p>Competent: I can apply this outcome without direction or supervision. Learning: I am still learning skills and knowledge to apply this outcome. None: I have no knowledge or experience related to this outcome.</p>	Competent	Learning	None
1. Explain the process of communication.			
2. Illustrate the importance of cultural awareness in communications			
3. Discuss communication techniques in interpersonal and workplace situations.			
4. Compose effective sentences and paragraphs.			
5. Write routine business messages.			
6. Write negative business messages.			
7. Create formal documents using word processing applications.			
8. Explain how to establish and maintain client relationships.			
9. Use email features and electronic calendaring to manage business communication.			

COMP 122 - Introduction to Programming for Information Systems

You will learn introductory programming and design concepts using the Java language and GIT for source control. Your studies will develop your logic and problem-solving skills using elements of the Unified Modeling Language (UML) to develop structured and object-oriented Java programs.

Credit unit(s): 6.0
Pre Requisites: none
Co Requisites: none
Equivalent course(s): COMP 141, COSC 180

<p>Use a checkmark (✓) to rate yourself as follows for each learning outcome</p> <p>Competent: I can apply this outcome without direction or supervision. Learning: I am still learning skills and knowledge to apply this outcome. None: I have no knowledge or experience related to this outcome.</p>	Competent	Learning	None
1. Explain Java programming terminology and concepts.			
2. Use an integrated development environment to produce elementary Java programs.			
3. Use GIT to manage a java project.			
4. Follow coding standards.			
5. Design a functional test case.			
6. Use selection control structures to produce Java programs.			
7. Use iterative control structures to produce Java programs.			
8. Use modularized algorithms to produce Java programs.			
9. Use arrays to manage data in Java programs.			
10. Explain object-oriented programming terminology and concepts.			
11. Use classes and objects in Java programs.			

COMP 123 - Introduction to Business Computing

You will learn how to use computers to analyze business data and collaborate on documents and projects. You will gain hands on experience with advanced features of the Windows Operating System and the Microsoft Office suite of tools including file systems and directories, spreadsheets, databases, and SharePoint site management. You will also study best practices for collaborative document production and document management.

Credit unit(s): 4.0
Pre Requisites: none
Co Requisites: none
Equivalent course(s): COAP 120

<p>Use a checkmark (✓) to rate yourself as follows for each learning outcome</p> <p>Competent: I can apply this outcome without direction or supervision. Learning: I am still learning skills and knowledge to apply this outcome. None: I have no knowledge or experience related to this outcome.</p>	Competent	Learning	None
1. Use the command prompt to perform basic Operating System (OS) commands.			
2. Use Microsoft (MS) Excel to create a spreadsheet to answer business questions.			
3. Use MS Word to format documents.			
4. Normalize a data model.			
5. Use MS Access to create a database represented by a data model.			
6. Use SharePoint lists and libraries to centralize and regulate access to information.			
7. Integrate SharePoint with Microsoft Office.			
8. Customize SharePoint webpages.			
9. Access external data with SharePoint.			

COMP 255 - Visual Application Development

You will study the Windows based application development environment. You will develop applications using graphical user interfaces and incorporate Object-Oriented Event-Driven (OOED) programming. The course content includes standard OOED programming concepts, graphics, database access, inter-application communications and data structures.

Credit unit(s): 5.0
Pre Requisites: none
Co Requisites: none
Equivalent course(s): none

<p>Use a checkmark (✓) to rate yourself as follows for each learning outcome</p> <p>Competent: I can apply this outcome without direction or supervision. Learning: I am still learning skills and knowledge to apply this outcome. None: I have no knowledge or experience related to this outcome.</p>	Competent	Learning	None
1. Use visual studio IDE to make event driven programs.			
2. Use coding standards.			
3. Design a functional test case.			
4. Use decision control structures to make Visual Studio .NET programs.			
5. Use iterative control structures to make Visual Studio .NET applications.			
6. Use subroutines to make Visual Studio.NET applications.			
7. Use arrays to make Visual Studio.NET applications			
8. Use classes and objects to make Visual Studio.NET applications.			
9. Use files to make Visual Studio.NET applications that use persistent data.			
10. Make Visual Studio.NET applications that use SQL Server data.			

STAT 120 - Business Statistics

You will gain knowledge of statistical concepts and techniques applicable to accounting and management. You will study descriptive statistics, measures of central tendency and dispersion, probability distributions, the Central Limit Theorem, and linear regression. This course is intended to build problem solving and critical thinking skills, and to demonstrate the importance of statistics in professional practices.

Credit unit(s): 4.0
Pre Requisites: none
Co Requisites: none
Equivalent course(s): ACP 374, STAT 120CE

<p>Use a checkmark (✓) to rate yourself as follows for each learning outcome</p> <p>Competent: I can apply this outcome without direction or supervision. Learning: I am still learning skills and knowledge to apply this outcome. None: I have no knowledge or experience related to this outcome.</p>	Competent	Learning	None
1. Discuss statistical terminology and procedures.			
2. Apply statistical methods for organizing and presenting data.			
3. Calculate measures of central tendency.			
4. Calculate measures of dispersion.			
5. Examine basic probability.			
6. Examine probability distributions of random variables.			
7. Examine the normal probability distribution.			
8. Apply the Central Limit Theorem to business and financial problems.			
9. Apply confidence intervals to business and financial problems.			
10. Apply tests of hypothesis to business and financial problems.			
11. Analyze paired statistical data using simple linear regression.			

ADMN 220 - Organizational Behaviour

You will study human behaviour in organizations and develop the skills needed to deal with people at work. Your studies include content on individual behaviour, values, interpersonal relationships and communications, groups and team dynamics, organizational culture, leadership, and change. You will study these aspects of human behavior within the context of diverse formal organizations.

Credit unit(s): 4.0
Pre Requisites: none
Co Requisites: none
Equivalent course(s): ADMN 220CE, BUS 182

<p>Use a checkmark (✓) to rate yourself as follows for each learning outcome</p> <p>Competent: I can apply this outcome without direction or supervision. Learning: I am still learning skills and knowledge to apply this outcome. None: I have no knowledge or experience related to this outcome.</p>	Competent	Learning	None
1. Describe organizational behaviour.			
2. Describe organizational culture.			
3. Discuss diversity in organizations.			
4. Explain how emotions shape our behaviour.			
5. Explain how personality and values influence behavior.			
6. Discuss how perception influences the decision-making process.			
7. Apply various motivational models to improve performance.			
8. Demonstrate effective teambuilding skills.			
9. Use the appropriate leadership style in a situation using leadership theory.			
10. Explain how power and organizational politics relate to performance			
11. Explain conflict management.			
12. Explain organizational change and strategies to overcome resistance to change.			

COMP 215 - Internet Application Development 1

You will learn the fundamentals of Web design and application development. You will learn to create Web content that communicates effectively and is easy to maintain. Your studies will include learning HTML5, JavaScript, JQuery, AJAX and JavaScript sockets.

Credit unit(s): 5.0
Pre Requisites: COMP 122
Co Requisites: none
Equivalent course(s): none

<p>Use a checkmark (✓) to rate yourself as follows for each learning outcome</p> <p>Competent: I can apply this outcome without direction or supervision. Learning: I am still learning skills and knowledge to apply this outcome. None: I have no knowledge or experience related to this outcome.</p>	Competent	Learning	None
1. Discuss the technologies used in Web design and Web application development.			
2. Discuss the concepts of information architecture and site maintenance.			
3. Discuss Web usability and interaction design.			
4. Create Web content with HTML.			
5. Apply responsive design to the creation of web pages.			
6. Create Web pages that use CSS3 formatting			
7. Differentiate between Java Script and JQuery.			
8. Create web pages that use JQuery.			
9. Create web pages that use persistent data.			
10. Create web pages that use AJAX.			
11. Create web pages that use sockets.			

COMP 233 - Object Oriented Programming Concepts

You will learn advanced topics in Java programming and Object Oriented programming techniques. Your studies will include file manipulation, exception handling, graphical user interfaces, event handling, multi-threaded environments, and network programming. You will continue to study systems development, algorithm design and the Unified Modelling Language (UML). After completing this course, you will have developed a thorough understanding of Java's capabilities and strengths.

Credit unit(s): 5.0
Pre Requisites: COMP 122
Co Requisites: none
Equivalent course(s): none

<p>Use a checkmark (✓) to rate yourself as follows for each learning outcome</p> <p>Competent: I can apply this outcome without direction or supervision. Learning: I am still learning skills and knowledge to apply this outcome. None: I have no knowledge or experience related to this outcome.</p>	Competent	Learning	None
1. Use UML diagrams to create composition relationships.			
2. Use composition in Java.			
3. Use UML diagrams to design inheritance relationships.			
4. Use inheritance in Java.			
5. Use UML relationships to design abstraction and interface relationships.			
6. Use polymorphism in Java.			
7. Manipulate files in Java.			
8. Manipulate databases in Java.			
9. Manage multi-threading techniques in Java.			
10. Use network programming in Java.			
11. Construct graphical user interfaces in Java.			

COMP 234 - Database

You will gain experience designing computer systems that involve database processing. You will focus on the hierarchical, relational, and network design. You will also gain experience in database processing using ORACLE and Query Languages (in particular SQL and SQL*PLUS).

Credit unit(s): 5.0
Pre Requisites: COMP 123
Co Requisites: none
Equivalent course(s): none

<p>Use a checkmark (✓) to rate yourself as follows for each learning outcome</p> <p>Competent: I can apply this outcome without direction or supervision. Learning: I am still learning skills and knowledge to apply this outcome. None: I have no knowledge or experience related to this outcome.</p>	Competent	Learning	None
1. Describe the fundamentals of database management.			
2. Develop SQL statements to create and populate database tables.			
3. Write SQL statements to retrieve information from database tables.			
4. Explain the process of saving and undoing changes made to the database.			
5. Discuss database objects			
6. Explain the concept of optimization.			
7. Explain the process of normalization			
8. Create SQL statements using functions.			
9. Examine grouping in SQL.			
10. Discuss the manner in which the structure of a table can be changed.			
11. Write SQL statements using set operations.			
12. Write introductory PL/SQL statements, stored procedures and triggers.			

COMP 249 - Information Security, Privacy and Ethics

You will learn how to plan and manage security and privacy policies. You will study the role of CIPS in providing ethical guidelines for professional conduct, and you will learn about the responsibilities of working with management information systems and their data. You will also discuss the ergonomics and health risks associated with computer based-work. Your studies will include the components of an information system security model and the threat groups that compromise them. In addition, you will be exposed to examples of security technology and how to implement it as part of a security plan.

Credit unit(s): 3.0
Pre Requisites: none
Co Requisites: none
Equivalent course(s): none

<p>Use a checkmark (✓) to rate yourself as follows for each learning outcome</p> <p>Competent: I can apply this outcome without direction or supervision. Learning: I am still learning skills and knowledge to apply this outcome. None: I have no knowledge or experience related to this outcome.</p>	Competent	Learning	None
1. Explain professionalism and the role of CIPS.			
2. Discuss ergonomics and health risks associated with computer-based work.			
3. Apply ethics to IT related decision making.			
4. Explain theories of surveillance.			
5. Explain privacy laws.			
6. Explain the role of data warehousing/data mining in marketing.			
7. Discuss threat assessment and risk management.			
8. Explain security maintenance cycle.			

COMP 254 - Computer Architecture and Data Communications

You will be exposed to a wide variety of topics related to computer systems and networking. As you install and configure these system components, you will learn about computer hardware, workstation and server operating systems, and computer networking and data communications. Your studies will focus on the architecture of the Intel-based computer hardware and the Microsoft workstation and server operating system platforms.

Credit unit(s): 6.0
Pre Requisites: COMP 123
Co Requisites: none
Equivalent course(s): none

<p>Use a checkmark (✓) to rate yourself as follows for each learning outcome</p> <p>Competent: I can apply this outcome without direction or supervision. Learning: I am still learning skills and knowledge to apply this outcome. None: I have no knowledge or experience related to this outcome.</p>	Competent	Learning	None
9. Apply safety and security procedures in the handling and management of computer hardware and software.			
10. Locate the various components in a personal computer.			
11. Perform calculations with numbers with different bases.			
12. Perform basic operations with machine code.			
13. Describe the differences between “server” and “workstation” hardware and operating systems.			
14. Install Windows operating systems as host and client virtual machines.			
15. Explain the basic concepts involved with computer networking and data communications.			
16. Examine TCP/IP network architecture and communications.			
17. Use networking concepts to describe networking, hardware components and the design of computer networks.			
18. Configure a Windows workstation operating system and applications software.			
19. Configure a Windows Server Domain environment.			
20. Operate the performance management tools associated with the Windows Server operating system.			

JOBR 120 - Job Readiness

You will develop essential employability skills which will assist you in labour market research in the information technology sector, employment-related communications, and interviewing techniques. You will prepare documentation required for a successful job application and employment.

Credit unit(s): 1.0
Pre Requisites: none
Co Requisites: none
Equivalent course(s): none

<p>Use a checkmark (✓) to rate yourself as follows for each learning outcome</p> <p>Competent: I can apply this outcome without direction or supervision. Learning: I am still learning skills and knowledge to apply this outcome. None: I have no knowledge or experience related to this outcome.</p>	Competent	Learning	None
1. Develop required documents for job application in the technology sector.			
2. Perform company and job research.			
3. Prepare e-presence.			
4. Demonstrate interview skills.			

COOP 150 - Co-operative Education Work Term

Your co-operative education work term will provide an opportunity for you to integrate the formal knowledge and skills learned in the classroom with experiential learning from the workplace. You will have the opportunity to apply theoretical concepts to real work situations, work collaboratively in team work situations, experience the complexity of the roles and responsibilities within an organization, and apply personal employment skills.

Credit unit(s): 0.0
Pre Requisites: JOBR 120
Co Requisites: none
Equivalent course(s): none

<p>Use a checkmark (✓) to rate yourself as follows for each learning outcome</p> <p>Competent: I can apply this outcome without direction or supervision. Learning: I am still learning skills and knowledge to apply this outcome. None: I have no knowledge or experience related to this outcome.</p>	Competent	Learning	None
1. Apply personal employment search skills.			
2. Demonstrate effective workplace communication skills.			
3. Demonstrate effective work habits.			
4. Demonstrate safe work practices.			
5. Demonstrate effective teamwork skills.			
6. Develop personal management skills.			
7. Identify roles and responsibilities of personnel in the workplace.			
8. Integrate theories and concepts learned in a workplace setting.			
9. Demonstrate essential employability skills.			
10. Reflect on job performance.			
11. Prepare a work term reflection paper.			

COMP 214 - Project Management

You will develop essential project management skills that will place you in a position to make an immediate and valuable contribution to the success of real-world projects. You will study industry standards and methodologies to develop an appreciation of the resources available to project managers. You will learn tools and techniques which are useful to the project process groups and knowledge areas. You will study the theory that supports project management and how apply it to real-world examples.

Credit unit(s): 4.0
Pre Requisites: none
Co Requisites: none
Equivalent course(s): none

<p>Use a checkmark (✓) to rate yourself as follows for each learning outcome</p> <p>Competent: I can apply this outcome without direction or supervision. Learning: I am still learning skills and knowledge to apply this outcome. None: I have no knowledge or experience related to this outcome.</p>	Competent	Learning	None
1. Discuss project management concepts			
2. Recognize the industry standards and methods of project management			
3. Identify the people who have a stake in a project			
4. Demonstrate effective team management			
5. Prepare tools used in project initiation			
6. Apply planning techniques used in project management			
7. Apply scheduling techniques used in project management			
8. Produce a risk response plan			
9. Execute a project management plan			

COMP 235 - Internet Application Development 2

Your studies will provide hands-on experience developing .NET applications. The course content includes Web application topics such as the .NET AJAX framework, ASP.NET, distributed computing topics such as Windows Communication Foundation and Web Services, and the ADO.NET libraries for data access. You will complete course projects using Visual Studio .NET, ASP.NET, ADO.NET, and C#.

Credit unit(s): 6.0
Pre Requisites: COMP 215, COMP 234
Co Requisites: none
Equivalent course(s): none

<p>Use a checkmark (✓) to rate yourself as follows for each learning outcome</p> <p>Competent: I can apply this outcome without direction or supervision. Learning: I am still learning skills and knowledge to apply this outcome. None: I have no knowledge or experience related to this outcome.</p>	Competent	Learning	None
1. Construct ASP Applications that use server controls.			
2. Maintain state in an ASP web application.			
3. Make ASP.NET applications that use SQL server data.			
4. Create class libraries.			
5. Implement n-tiered applications.			
6. Manage AJAX in Web applications.			
7. Use JQuery in ASP.NET applications.			
8. Implement WCF Web Service applications.			
9. Implement WCF RIA applications.			
10. Use the Model View Controller design pattern.			
11. Create a distributed .NET project.			

COMP 236 - Operating Systems and Environment Configuration

You will learn the fundamentals of developing software applications with open source tools and technologies. Your studies will provide you with a broad view of application development and deployment environments, including the hardware, operating systems, and servers required to develop and deploy software applications.

Credit unit(s): 5.0
Pre Requisites: COMP 254
Co Requisites: none
Equivalent course(s): none

<p>Use a checkmark (✓) to rate yourself as follows for each learning outcome</p> <p>Competent: I can apply this outcome without direction or supervision. Learning: I am still learning skills and knowledge to apply this outcome. None: I have no knowledge or experience related to this outcome.</p>	Competent	Learning	None
1. Install Linux and Windows in various native and virtual machine configurations.			
2. Compare Windows and Linux operating systems.			
3. Write shell scripts.			
4. Write regular expressions.			
5. Configure a Web server.			
6. Configure a DBMS.			
7. Develop a database.			
8. Examine security in a web database application.			
9. Create a multi-tiered web application.			
10. Deploy a multi-tiered Web application.			

COMP 237 - Systems Analysis and Requirements Management

You will learn a variety of different methods, tools, and techniques that a systems analyst would use in the development of complex business information systems. You will use CASE tools to develop practical experience in planning analysis and design of business information systems. You will gather requirements, perform the analysis and begin design if a small-automated system belonging to a real world/ business/organization to gain direct experience of systems analysis.

Credit unit(s): 4.0
Pre Requisites: COMP 234
Co Requisites: none
Equivalent course(s): none

<p>Use a checkmark (✓) to rate yourself as follows for each learning outcome</p> <p>Competent: I can apply this outcome without direction or supervision. Learning: I am still learning skills and knowledge to apply this outcome. None: I have no knowledge or experience related to this outcome.</p>	Competent	Learning	None
1. Identify foundations for systems development.			
2. Apply project time management strategies and common tools.			
3. Explain project scope management.			
4. Analyze project cost management.			
5. Examine project quality management.			
6. Compare analysis tools.			
7. Model information systems.			
8. Model data storage.			
9. Discuss program design.			

COMP 258 - Object Oriented Software Development

You will study the fundamentals of object-oriented software design, UML and data structures. You will study the creation and selection of common collections and their related algorithms. You will apply these concepts in project development involving multi-user, networked application for data access.

Credit unit(s): 5.0
Pre Requisites: COMP 233
Co Requisites: none
Equivalent course(s): none

<p>Use a checkmark (✓) to rate yourself as follows for each learning outcome</p> <p>Competent: I can apply this outcome without direction or supervision. Learning: I am still learning skills and knowledge to apply this outcome. None: I have no knowledge or experience related to this outcome.</p>	Competent	Learning	None
1. Review object orientation.			
2. Write general purpose data structures.			
3. Write recursive methods.			
4. Apply searching and sorting algorithms.			
5. Conduct algorithm efficiency analysis.			
6. Identify common predefine collections.			
7. Identify generic collections.			
8. Write generic methods.			
9. Manage collections of network connections.			
10. Manage concurrent transactions.			

COMP 259 - Mobile Application Development 1

Using the Android-based application development environment, you will extend web applications to a native mobile platform. You will write mobile applications that incorporate local data storage, implement handset hardware features such as GPS and connect to the network. You will compare native application development to cross platform development for multiple devices.

Credit unit(s): 4.0
Pre Requisites: COMP 233
Co Requisites: none
Equivalent course(s): none

<p>Use a checkmark (✓) to rate yourself as follows for each learning outcome</p> <p>Competent: I can apply this outcome without direction or supervision. Learning: I am still learning skills and knowledge to apply this outcome. None: I have no knowledge or experience related to this outcome.</p>	Competent	Learning	None
1. Describe mobile application platforms.			
2. Compare the advantages and limitations of cross-platform development to native applications.			
3. Implement user interface elements for input and output in android applications.			
4. Control the Android Activity lifecycle.			
5. Write a mobile application that interacts with local hardware.			
6. Implement local data persistence in a mobile application using text files and databases.			
7. Write a mobile application that connects to the network.			
8. Publish/deploy a native mobile application.			
9. Use a cross platform development tool to develop a simple mobile application that can run on multiple device platforms.			

ACCT 225 - Managerial Accounting

Your studies will provide an introduction to the fundamentals of managerial accounting. You will use cost concepts, manufacturing accounting, cost allocation and budgeting processes, and you will be able to employ appropriate managerial accounting techniques for decision making.

Credit unit(s): 5.0
Pre Requisites: ACCT 122
Co Requisites: none
Equivalent course(s): ACCT 225CE

<p>Use a checkmark (✓) to rate yourself as follows for each learning outcome</p> <p>Competent: I can apply this outcome without direction or supervision. Learning: I am still learning skills and knowledge to apply this outcome. None: I have no knowledge or experience related to this outcome.</p>	Competent	Learning	None
1. Define basic management accounting terms and concepts.			
2. Record cost flow information in financial schedules.			
3. Use a basic job-order costing system.			
4. Use cost behaviour analysis to account for costs incurred by a business organization.			
5. Use Cost-Volume-Profit Analysis as a decision-making tool.			
6. Use financial performance measurement information to evaluate business divisions.			
7. Apply cost flow information to budget process documents.			
8. Interpret variances using flexible budgeting tools.			
9. Employ appropriate managerial accounting techniques for decision making in a business environment.			

ADMN 209 - Organizational Change

You will develop strategies and processes related to creating and fostering an evolving workplace culture that supports innovation, change, quality and learning and results in harmony between the organization's needs and employee's expectations while remaining consistent with the organization's business plan in a competitive and changing environment. The course content emphasizes the importance of implementing change in the proper sequence of events and interactions.

Credit unit(s): 4.0
Pre Requisites: none
Co Requisites: none
Equivalent course(s): none

<p>Use a checkmark (✓) to rate yourself as follows for each learning outcome</p> <p>Competent: I can apply this outcome without direction or supervision. Learning: I am still learning skills and knowledge to apply this outcome. None: I have no knowledge or experience related to this outcome.</p>	Competent	Learning	None
1. Discuss your attitude and reaction towards change management.			
2. Describe how the six-images framework of change management applies to your approach to change.			
3. Explain how the depth of an organizational change can impact what changes in an organization.			
4. Construct an effective change vision.			
5. Describe the different approaches to managing change.			
6. Describe the difference between sustaining a change and initiative decay.			
7. Use varied approaches to manage resistance to change.			
8. Demonstrate how to be an effective change manager.			

BCOM 121 - Business Communications 2

You will continue to develop effective business writing skills and employability skills. The course focuses on writing business reports in both informal and formal styles. In addition, classroom study and experience will help prepare you for a business career by developing your presentation skills.

Credit unit(s): 4.0
Pre Requisites: BCOM 120
Co Requisites: none
Equivalent course(s): COMM 149

<p>Use a checkmark (✓) to rate yourself as follows for each learning outcome</p> <p>Competent: I can apply this outcome without direction or supervision. Learning: I am still learning skills and knowledge to apply this outcome. None: I have no knowledge or experience related to this outcome.</p>	Competent	Learning	None
1. Conduct research for a report.			
2. Create documentation notes and bibliographies.			
3. Organize business reports.			
4. Use graphics to illustrate reports and presentations.			
5. Write proposals.			
6. Write user manuals.			
7. Write systems documentation.			
8. Deliver effective oral presentations using presentation tools.			
9. Evaluate oral presentations.			

COMP 253 - Systems Project

You will demonstrate your skill in systems development using real projects or contrived cases that require applying the activities of the system development cycle in an interactive data base environment. The case projects are set in a team environment with the supervising faculty member serving as your consultant and evaluator.

Credit unit(s): 6.0
Pre Requisites: COMP 214, COMP 237
Co Requisites: none
Equivalent course(s): none

<p>Use a checkmark (✓) to rate yourself as follows for each learning outcome</p> <p>Competent: I can apply this outcome without direction or supervision. Learning: I am still learning skills and knowledge to apply this outcome. None: I have no knowledge or experience related to this outcome.</p>	Competent	Learning	None
1. Use effective software construction.			
2. Use software modeling techniques.			
3. Manage a software project.			
4. Maintain an existing software application.			
5. Create a new software application.			
6. Manage project documentation.			
7. Use communication skills to present the final project and to discuss the development process.			
8. Work as a team to reach established goals.			

COMP 262 - Mobile Application Development 2

Building on the foundation of COMP 259, you will implement more advanced Android and cross platform development techniques. You will write applications that use dynamic user interface elements, incorporate remote data storage, and communicate with web services. Using cross platform development tools, you will create a mobile application that runs on various devices and will work with a multi-tiered business application.

Credit unit(s): 4.0
Pre Requisites: COMP 259
Co Requisites: none
Equivalent course(s): none

<p>Use a checkmark (✓) to rate yourself as follows for each learning outcome</p> <p>Competent: I can apply this outcome without direction or supervision. Learning: I am still learning skills and knowledge to apply this outcome. None: I have no knowledge or experience related to this outcome.</p>	Competent	Learning	None
1. Write a mobile application with advanced user interface elements.			
2. Write a mobile application that stores and synchronizes remote data.			
3. Write a mobile application that consumes web services.			
4. Write a mobile application that implements Android services.			
5. Write a mobile application that implements Android content providers.			
6. Develop a cross platform mobile application for a multi-tiered business application.			