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Are you engaged in lifelong learning, a natural, patient and persistent problem solver? Learn and develop the technical, business and soft skills necessary to get a job within the IT (IT) profession and meet the needs of the industry, both locally and globally. The Bit (Business Information Technology) program provides students with industry-relevant technical training, an understanding of business systems, and practical experience in the workplace. Our BIT graduates then built careers in web software and application development, leadership, virtual reality, system administration, augmented reality, entrepreneurship, information security, database management administration, and much more. Where will this trip take you? Come and study at the Roblin Centre, located in the picturesque Exchange District of Winnipeg. There is a laptop requirement for this program as the course content is delivered digitally. About The Program As a BIT student, learn the required combination of technical, business, and soft skills to achieve a rewarding career within the IT profession. You'll gain an understanding of how different areas of information technology work together learning about application development, database management, network management, and web development. Over the past 50 years, with the helpful guidance of our advisory board, our program has grown and evolved to become the program organizations target for their IT recruitment needs. The advisory board is made up of more than 20 active industry members who provide us with information about an IT professional's role at Winnipeg and meet twice a year. The result is a curriculum designed to provide you with up-to-date and relevant expertise that meets the needs of industry, both locally and globally. For information on programme requirements, courses, employment potential and more, see the Programme Catalogue. Accrediation This program is accredited by the Canadian Information Processing Society (CIPS) Information Systems and Technology Accreditation Council. Members of the council's accreditation committee visit Red River College once every three years to review the program and its curriculum. The BIT program has been accredited by CIPS since 2000. ACE Project Space Affiliations As part of this program's work experience term, students may have the opportunity to complete an industry project at ACE Project Space, a collaborative space where education and innovation collide. Students have the opportunity to work on projects with real companies and customers to give life to unique ideas. Labs Our labs are used for learning interactive for the network of computers and industry projects. We have a number of laboratory spaces available to students studying in the BIT program. To learn more, check out our laboratories. Faculty and Staff Our team of faculty and staff brings with it extensive experience and knowledge to help you succeed as a BIT program student. Groups of students As a BIT student, you have the to join groups of students dedicated to your program. For more information, see the Student Groups page. BIT 50th anniversary Since 1968, our program has graduated more than 3,600 students. See the history of the BIT program. It all started in 1968. Red River College has launched a new program: Computer Analyst/Programmer (CAP). Over the next 50 years, the PAC has seen multiple evolutions, existing as Information Systems Technology (STI) for some time, and more recently it is known as Business Information Technology (BIT). The BIT program now exists as a 28-month program, providing a solid technical foundation in information technology and related business courses. The programme is complemented by practical training through a sector project or a period of paid cooperative work. In the last 50+ years, many thousands of students have come and gone. Today they are developers, network administrators, business analysts, vice presidents (VIPs), chief information officers (CIOs), and presidents! They are working in all sectors of activity, both in the private and public sectors, including Manitoba Blue Cross, Wawanesa, BIT Space Development, Informanix, Great-West Life, among others – and many involved in the ICTAM association. Our graduates work all over the city and around the world. They've created your websites, databases, and network systems. They also worked to be programmers to presidents of their companies. They went from being a student in the classroom to making their own presentations to thousands of people. Students have made this program what it is today and we are incredibly proud to see the contributions to information technology that every graduate has made. From the Department of Applied Informatics Education (ACE) of Red River College, thanks to all our sponsors. You have always been a supporter of the BIT, TSN or PAC program and a part of this department. Plus, many congratulations to Stu and Heather Charles, both distinguished graduates, who were honored at our 50th anniversary gala dinner in November 2018. Read their story on the RRC blog. Thank you to everyone who attended our gala dinner celebration. We invite you to view the photo gallery of the gala dinner. See the history of the BIT program. Hi everyone, I'm thinking about a career change and I'm checking some roads. Did anyone spend this program in Red River? If so, what do you think? Was it worth it? What were job prospects like after graduation? What kind of work are you doing now? Thank you in advance. Page 2 30 comments 28 Months Program (1 year in India & 1 year in Canada and 4 Months Co-op) International Partner Red River College (Canada)CIIS being an international educational institution is recognized by many foreign universities and colleges that facilitates the and the direct entry path for students to foreign colleges for higher education. This program is designed to provide graduates with the knowledge and set necessary to analyze, design and manage projects and companies in the IT sector. The company's technology management diploma is based on a combined set of information technologies and business courses. Students in this program will be exposed to a variety of case studies and practical skills to be effective in consulting or managing teams in the IT field. Students will apply their skills in an industrial environment through the department's cooperative program. Employment Potential Business Analyst Marketing Specialist Systems Architect Project Leader/Manager eBusiness Analyst Information Systems Consultant Management Consultant Business & ICT Educator/Trainer 12° with Maths or Accountancy IELTS 6 overall and 6 in each module. International Partner Link In observance of the Thanksgiving holiday, the Railroad Commission of Texas will be closed from Wednesday, November 25 to Friday, November 28, and will reopen for business on Monday, November 30. The Information Technology Services (ITS) Division is responsible for providing automated information management services for the Commission in central and district offices. Its division's resources are dedicated to supporting the Commission's divisions and leadership with their IT infrastructure needs. Its division is responsible for ensuring that the information resources essential to manage the agency's activities, including hardware, software and applications, are available and operate at optimal levels. System availability is a critical factor in enabling the agency to meet regulatory requirements and achieve performance goals. ITS provides customer and operations support, desktop support, network administration, program and process management, and application development and maintenance. The Customer Service and Operations section is responsible for the Commission's network, personal computers and printers, Web support, server and mainframe systems, data entry and control functions, and a customer service help desk. The Program and Process Management section is responsible for programs, project management, business analysis, information security, contract development and supervision, procedures, ITS strategic planning, budget development and monitoring, analysis and reporting. Both sections provide the management and supervision of the Outsourced Data Center Services (DCS) contract through the Department of Information Resources (DIR). The Application Development and Maintenance section is responsible for the Commission's commercial applications, including regulatory applications, intranet and Internet applications, reporting, and geographic information systems (SSIs). Last Updated: 9/10/2019 9:33:30 AM (click on course name for the course description) In addition to credit transfer from a recognized post-secondary institution, other RPL processes are available for RPL courses. Click here for more information. For courses without RPL, please www.rrc.ca/rpl for contact information. Read moreThis course will introduce students to the fundamental concepts of financial accounting and the relevance of financial accounting for decision-making in any company. It will cover the basic concepts of charges and credits and the accounting cycle. We will discuss in more detail specific financial reporting items such as cash, accounts receivable, inventory, long-term assets, liabilities and shareholders' equity. The course also includes an introduction to accounting software, budget preparation and budget interpretation and analysis. ADEV-1008Programming 1More informationThis course is a basic introduction to programming using the Java programming language. Students will develop, encode, test, and debug programs for simple applications using the appropriate programming principles and documentation. Topics include data types, variable declarations, control structures, methods, classes, inheritance, polymorphism, encapsulation, arrays, and other data structures. ADEV-2008Programming 2OthingHow to get started, students learn the basics of developing Windows business applications using C#.NET. Through the progressive practical development of applications, students learn the features of Visual Studio Interactive Development Environment (IDE), the .NET Framework along with Windows application standards and object-oriented programming principles. Each assignment will further improve the student's knowledge and skills by using the Visual Studio and .NET Framework IDE. Standard controls and methods along with object-oriented code written by the student will be used to develop a Windows application that uses sequential file I/O and a Microsoft Access database. The Data Grid View and Crystal Reports controls will also be introduced. In addition, students will explore the concept of multithreading. The course will include a heavy unit test component, under which the unit test will be used throughout the course. The course will be supported by 2 hours of structured laboratory every week. During structured workshops, students will have the opportunity to practice the skills learned through mandatory skills checks. Prerequisites:Learn moreQuantum calculations are an emerging field at the intersection of computer science, mathematics, physics, and engineering. The course begins with an introduction to quantum mechanics before moving on to the challenges and limitations of building real machines that implement the theory. Students then study how quantum algorithms outperform their classical counterparts and learn how to encode and execute such algorithms on real quantum processors. informationIn this course, participants will learn the fundamentals of the Python programming language. The course starts with setting up the programming environment on the participant's local PC and verifying the installation by writing their first Hello World! script. Slowly, participants will add the building to the building to be able to build more complicated applications in Python. During each topic, participants will demonstrate their knowledge by completing exercises that accumulate in larger tasks. Participants also work in groups to develop a comprehensive course project that should be planned by the end of the course. The course aims to be practical, so students are encouraged to bring their own projects to discuss in class and present how they were able to solve the problems they faced. The course also encourages students to think about how to document and package their final product so that other users can benefit from and use participants' work. Prerequisites:Take ADEV-2005 or ADEV-2008. Learn moreThis course introduces the development of mobile software. Students study the development of native applications for the Android platform. The first half of the course builds foundation with assignments that cover topics including UI creation, event-based programming, data persistence, web connectivity, and location-based services. In the second half of the course, students create smartphone apps of their own design. Prerequisites:Learn moreAs a continuation of programming 2, students learn how to develop more advanced Windows business applications. Through the progressive development of practical applications using object-oriented programming principles, students will develop multi-level business applications using a relational database. Students will incorporate Language Integrated Query (LINQ) into all aspects of the application, including database data and XML files. Each assignment developed will further improve knowledge and skills by using C#, the .NET Framework, and SQL Server. Students will work in a multi-thread environment by creating manually separated threads and embedding external devices running on a separate thread. Students will develop a web application using ASP.NET. In addition, students will create a web service that will be used by both Windows and web applications. The course will be supported by 2 hours of structured laboratory every week. During structured workshops, students will have the opportunity to practice the skills learned through mandatory skills checks. Prerequisites:Take ADEV-2008 or ADEV-2005 and take DBMS-1002 or DBMS-1000. Further informationThis course covers the data structures used in the programming. Concepts include: the importance of writing optimized code, determining execution time, and best/average/worst execution. The data structures covered in this course are (but not limited to): chain lists, stacks, queues, hash tables, maps, and trees. Prerequisites:taking o ADEV-2008 and take DBMS-1000 or DBMS-1002. Learn more About the Internet of Things and the variety of technologies available for project implementation. You will contrast the different technologies by building your fully functional designs using two different ESP32 cards. You will also learn how to use MicroPython with MQTT and and AWS IoT Core to control and monitor your projects. At the end of the course, you will be able to select and implement the appropriate hardware/software technologies for IoT projects. Prerequisites:Learn moreLearn about the Internet of Things and the variety of technologies available for project implementation. You will learn by doing ... build your fully functional designs using Raspberry Pi. You'll learn how to use the popular Blynk framework with Python to quickly develop apps on your mobile device to control physical devices. At the end of the course, you will be able to select and implement the appropriate hardware/software technologies for IoT projects. Prerequisites:More information Students will explore a wide range of issues related to political and economic theory and practice; technology and ethics; and some of the implications these issues have on business management and practice. The principles of the basic economy will be explored to provide learners with an understanding of the business environment. The challenges of how existing companies work and potential business opportunities will be researched, analyzed, and evaluated to help develop critical thinking skills. The class format includes readings, classroom discussions, and exercises on thematic areas. BUSA-2012Business Management for Information TechnologyMore informationThis course is designed to provide students with an overview of critical management practices from both a traditional (hierarchical) and contemporary (team-based) approach. Management concepts and issues are examined through textbook material, along with examples, case studies, discussions and exercises highlighting the challenges and opportunities in the practical applications of management concepts.COMM-1157Communications for ITMore informationSudenti will develop their communication skills by focusing on the writing process and speaking to a specific audience. Students will share their responses to course readings during classroom discussions with small groups of peers. Students will have numerous opportunities to receive feedback from the instructor and peers and then review their writing. Students will also practice their oral communication skills during simulated meetings and in various types of presentations.COMP-125800 System AnalysisMore informationThis course introduces fundamental object-oriented modeling and analysis concepts using the international unified modeling language (UML) together with a commercial-level UML CASE tool. A professional problem solving approach is emphasized by examining case studies as examples of work throughout the course. The unified process of software development (or unified process) is as an iterative and incremental software engineering process to guide students through the various stages of the analytics workflow. There is a project management component introduced in this course that is during follow-up, OO System Design. These two courses will allow students to have the skills they need to solve business software problems, which in turn help students prepare for their professional careers. Prerequisites:Learn moreA introductory course on what constitutes an information system, how they are set up, and an analysis of the key components of that information system. Discussions will include an introduction to an information system, hardware, operating system components, numeric systems, Web programming, version control, and databases. Topics will continue to be based on each other, with the aim of understanding a comprehensive information system COMP-2036Introduction to bioinformaticsMore information (no description available at the moment)COMP-3008OO System DesignMore informationThis course is a continuation of object-oriented system analysis with a focus on UML modeling at the design level, CASE tool instructions, and design alternative project management. Iterative and incremental development methodologies are the focus, with a focus on the unified process (UP). The combination of OO Systems Analysis and this course will provide students with a good working knowledge of: (i) object-oriented modeling from analysis to design, including user interfaces, persistence, code implementation, and software deployment; — visual modeling with UML; — CASE commercial level instruments; — industry standard software development processes; and (v) practical techniques for managing a project through multiple iterations. This course promotes team-based professional problem solving and is a prerequisite for the Industry Project course, which applies these and other skills learned to identify and solve an industry-scale problem/opportunity. Prerequisites:Learn moreThis course explores the database management systems used to store information. After an introduction to key database concepts, the student will learn how to develop and read an Entity Relationship Diagram (ERD), which is used to graphically represent the database. Most of the course covers Structured Query Language (SQL). Data Definition Language (DDL - a subcomponent of SQL) is covered to create the physical database on disk. The data manipulation language (DML - also a subcomponent of SQL) is introduced to allow manipulation of data stored in the database. Finally, the normalization process is discussed and applied to the ERD and database tables. DBMS-2006Database Management Systems 2More informationThis course is based on material covered in the introduction to DBMS. The discusses advanced topics including how to import data into a database table, export table data to operating system files, automate SQL scripting by using DOS batch files, format output into readable reports, perform advanced object creation and maintenance, control user accounts, and manage user privileges. Students spend a lot of time learning by learning practice PL/SQL, a built-in procedural language. They will design, test, and debug user stored procedures and cursors; It also use exceptions effectively. They develop a solid understanding of the Oracle system catalog. The importance of transaction processing is covered. Students will learn how to implement transaction processing in online tools, within PL/SQL code, and user-written applications. Prerequisites:Learn moreThis course covers the basic principles of data warehousing and the process of designing, populating, and querying a data mart. Students will design, create, build and manage their own data mart (stellar scheme). They will project, program, test, and run processes that perform a full initial load of data on the data mart from an existing populated OLTP database. Students will develop in-depth knowledge and practical skills about the life cycle of a data mart. Prerequisites:Learn moreThis course covers the administrative aspects of database management systems (DBMS) and explores central topics in Data Science (DS). The first part of the course will introduce the fundamental installation components of a DBMS. Students will install and configure different DBMS on traditional private server hardware to gain knowledge of the similarities, differences, and optimization parameters of various vendor software. Students will also provision a cloud-based DBMS service and integrate with an on-premises DBMS to demonstrate a hybrid environment. The second part of the course will examine the fundamental concepts of Data Science that include extracting, cleaning, and analyzing basic data on a variety of disparate data sources with the ultimate goal of uploading data to a DBMS for further traditional online transaction processing (OLTP). By the end of the course, students will be able to install and configure various DBMS software on private server hardware, provide and integrate a cloud-based DBMS service to support hybrid configurations, clean and load data from different sources into a DBMS, and perform some basic statistical analysis of the data before uploading. Prerequisites:Learn moreThis online course covers a variety of topics in mathematics that are essential in computer programming and business analysis. Mathematical concepts of computer programming include: Boolean logic, set theory, data organization and visualization, numerical descriptive measures, linear correlation and regression, probability theory, and distributions. Business Math coverage includes: ratios, aspect ratios and applications, linear systems, break-even and CVP analysis, simple calculations of compound interest and interest, and decision models business investment. You will learn this material through online lessons available in live formats and recorded previously, as well as through interactive and online tutorials and guided reading. Grades will be evaluated through projects designed to test competence in the required mathematical skills. NTWK-1010Network Computing InformationThis course conforms to the first of four courses leading to the Cisco Certified Network Associate (CCNA) designation. This course introduces the architecture, structure, functions, components and models of the Internet and other computer networks. Use the OSI and TCP layered models to examine the nature and roles of protocols and services at the application, network, data link, and physical level levels. The principles and structure of IP addressing and the foundations of Ethernet concepts, media, and operations are introduced to provide a foundation for your resume. At the end of the course, students build simple LAN topologies by applying the basic principles of cabling, performing basic configurations of network devices including routers and switches, and implementing IP addressing schemes. Prerequisites:Learn moreThis course provides the skills and knowledge you need to perform server management tasks in a Windows and VMware environment. Students will learn how to administer and manage a Windows-based network and a virtualized environment using VMware products. Topics include user administration, organizing and securing the file system, installing and managing network clients, configuring DNS, implementing group policies, editing and troubleshooting virtual machines. Students will learn how to perform these tasks using the GUI, CLI, and Powershell.Prerequisites:Learn moreThis course conforms to the second of three courses leading to the Cisco Certified Network Associate (CCNA) designation. The course deepens the topics covered in Cisco Networking Level 1 and examines new topics. The course describes the architecture, components, and operation of routers and switches in a small and medium-sized enterprise environment. Students will analyze, configure, verify, and resolve the following issues using IPv4/IPv6 protocols and services: Security, Redundancy, DHCP, WLAN, Static Routing, Inter-VLAN Routing, Routing Tables, Dynamic Trunking (DTP), VLAN, STP, and EtherChannel. At the end of this course, students will be able to recognize and correct common routing/switching issues. Basic procedural laboratories are introduced in each module. Students then perform basic configuration, implementation, and troubleshooting on the equipment provided. Package Tracer activities reinforce new concepts and allow students to model and analyze routing. Prerequisites:Take NTWK-1010 or NTWK-1000. Learn moreThis course provides the skills and knowledge you need to install, configure, and support network services on a Linux server. After installing a Linux server, students will learn how to administer and manage their network on Linux. Topics covered include user administration, file system security, network connectivity configuration, process management, print configuration and management, remote connectivity implementation, and implementation, configuration, and management of a variety of network services such as DNS, DHCP, NFS, FTP, e-mail, and Web services in a Environment. Prerequisites:Learn moreThis course introduces students to a wide range of security topics, such as understanding attackers and their attacks, encryption, web security, operational security, and security management. The emphasis will also be on policies and procedures, with a particular focus on business continuity plans. Students will complete different labs using security software and hardware to help them secure a network. Prerequisites:More informationThis course conforms to the third of the four courses (in the current Cisco review) leading to the CISCO Certified Network Associate (CCNA) designation. This course covers redundant and scalable network design with appropriate hardware. Students will plan, implement, and resolve spanning facility issues to provide support for redundancy in the network. Students will also implement link aggregation to provide maximum bandwidth within the network. Gateway redundancy is introduced. This is covered with the configuration, optimization and troubleshooting of OSPF, OSPF multiarea, and single-area EIGRP. We review the licenses and installation of Cisco IOS. Basic procedural laboratories are introduced in each chapter. The student then performs basic configuration, implementation and troubleshooting laboratories. Package Tracer activities reinforce new concepts and enable students to model and analyze routing processes. Prerequisites:More informationThis course conforms to the fourth and final course (in the current Cisco review) leading to the Cisco Certified Network Associate (CCNA) designation. This course examines WAN technologies and services. Students will gain an understanding of selecting network devices and WAN technologies to meet business requirements. The configuration and troubleshooting of network devices is emphasized. Students will develop the knowledge and skills necessary to implement tunneling. Network monitoring and security is covered. Emerging network trends will be explored. Basic procedural laboratories are introduced in each chapter. The student then performs basic configuration, implementation and troubleshooting laboratories. Package Tracer activities reinforce new concepts and enable students to model and analyze routing processes. Prerequisites:Learn moreLearn and practice skills, attitudes, and behaviors that will help you succeed in your professional career. You will reflect on your past and current learning so you can write and discuss your skills and experiences with confidence. the role of culture on your personal and professional interactions. You will start an ePortfolio that you will continue to develop during your studies in this program. Most of the lesson time will be devoted to group and class discussions. PDEV-2100Professional Development 2More informationLeave skills will improve your ability to safely describe your skills in written and verbal form so that you can clearly pass on your skills to people on your network such as potential employers or customers. You will also continue to your intercultural, interpersonal and academic skills through activities and discussions, which encourage introspection, reflection and teamwork. The development of your ePortfolio will continue in this course. Prerequisites:Learn moreRequire professional skills that will help you succeed in your career. Reflect on yourself and your relationship with others, including your peers, in order to develop your self-awareness and intercultural competence. Practice self-management skills such as prioritizing, time management, setting goals, and self-motivation. The development of your ePortfolio will continue in this course. Prerequisites:More informationDevelop skills to help the transition from education to employment. Create a social media profile to help you find work and facilitate networking throughout your career. Identify and complete a self-directed learning project. You will complete your ePortfolio and present it to students who are starting your program. Prerequisites:Further informationIndustry Project provides real experience in running an ICT (Information/Communication Technology) project that requires cross-functional teamwork meets customer needs and provides results agreed on in the project map. Each project team will evaluate, analyze, plan, research, model, design, document, develop, test, and manage a project. Project requirements could include new developments, research, or provide new functionality to an existing system. The course provides practice to further develop interpersonal, verbal and written communication skills through teamwork and collaboration with project stakeholders. All team members will improve their critical thinking, problem solving, research, independence, and lifelong learning skills. After completing deadline 3 of the programme, students must complete the industrial project or cooperative work experience. PROJ-2015Project Management for Information TechnologyMore informationThis course is a detailed study of project management techniques and information technology issues with a focus on addressing challenges related to software development projects. Using methodologies defined by the Project Management Institute (PMI), the course examines the start-up, planning, control and closure of projects within the highly dynamic framework of iterative and incremental development methodologies, including agile approaches. The main areas of interest will involve the management of communications, human resources, time, procurement, finance, risks and quality a guiding principle for delivering results that meet deadlines, budgets, and stakeholder exceptions. WEBD-1008Web Development 1More informationThis course is designed to give students an introduction to the Internet and web programming applications. Students will create properly structured and valid Web pages using HTML5 & CSS with built-in JavaScript (using ES6 as the basis) for data validation user interaction. Javascript will also be used to access and manipulate simple JSON files and dynamically add the data contained in JSON to an HTML page. An end-of-course project will have your websites planned, created, and uploaded to the Web.Prerequisites:The prerequisite for students in BIT is ADEV-1008. The prerequisite for students at BTM is ADEV-2029. Learn moreThis course builds on the skills learned during Web Development 1. Students will also learn how to use technologies that run on a web server to create rich and dynamic websites. Topics covered include creating dynamic web pages generated by data stored in a database, validating data sent to the server from a web form, and saving that data to a database, as well as managing session cookies to provide data persistence to clients accessing the website. The PHP scripting language and MySQL relational database management system are used to learn server-side Web development techniques. Javascript will also be used to add client-side dynamic updates to developing Web pages. Prerequisites:Take WEBD-1008 or WEBD-1000 and take DBMS-1002 or DBMS-1000. Learn moreThis course provides an examination of the Ruby programming language and the Model-View-Controller (MVC) application design model. Students will implement an ecommerce system using the Ruby on Rails web programming framework as a course project. It will also provide coverage for server configuration, application deployment, source control, and other contemporary Web development topics. Prerequisites:Learn moreThis course introduces students to a wide range of security topics, such as understanding how attacks occur, who attacks, encryption, web security, policies and procedures, and understanding exploits. All topics will be based on an ethical basis. The emphasis will be on real examples of vulnerabilities and how they will be exploited. Prerequisites:More information Cooperative training courses integrate related experience in the workplace with class theory by incorporating a period of paid work in terms of academic study. Students are given the opportunity to practice and apply the skills acquired during the first three semesters of their program as full-time productive employees to their period of work. Students are provided with an intensive 4-week program of job search workshops to prepare them for the recruitment process. The placement of eligible students takes place in January or May. Each internship is a minimum of 16 weeks. Student performance will be monitored and evaluated by both the by the employer. Each student will participate in a mid-term review of their employment in the middle of the semester. After completing term 3, students are required to complete the cooperative work experience or industrial project. Project. Project.

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