

Area of Interest: Advanced Technology

## Web Development and Internet Applications

Ontario College Diploma

Program Code: 3002X01FXA

2 Years

Ottawa Campus

### Our Program

Algonquin College has partnered with CDI College, a private career college located in the Greater Toronto Area to deliver this program to international students at their campus in Mississauga, Ontario.

Students who complete their Algonquin College program of study through CDI College will graduate with an Algonquin College credential.

### Pursue a career in the evolving world of web software application creation.

The two-year Web Development and Internet Applications Ontario College Diploma program prepares you to pursue a variety of different careers in the internet applications and web development industry.

This program is designed to teach you:

- internet technologies
- full stack web development
- the analysis, design and implementation of internet applications

During the program, you study a number of topics relevant to the field. You learn full stack web development, database programming and internetworking in a TCP/IP environment.

Additional topics include:

- client-side and server-side scripting
- programming languages
- systems and network security

In your last semester, you apply what you have learned throughout the program as a member of a team working on a multi-tiered internet application.

This program is designed to help you begin your career as:

- a full stack web developer
- a web administrator
- an internet application developer
- a web application architect
- a web programmer

### SUCCESS FACTORS

This program is well-suited for students who:

- Have good problem-solving and analytical skills.
- Enjoy solving logic puzzles.
- Are inquisitive and well-organized.
- Enjoy working with computers.
- Have an appreciation for the usefulness of the Internet.
- Can work effectively in a teamwork environment.

## Employment

Graduates may work as team members to analyze business requirements, design, develop, and implement appropriate web solutions to the user community, assist with the acquisition, installation, use and troubleshooting of Internet applications and Internet services on a variety of platforms.

Typical occupations toward which the program is directed include web administrator, Internet application developer, web application architect, web programmer, full stack web developer.

## Learning Outcomes

The graduate has reliably demonstrated the ability to:

- Communicate and collaborate with team members and stakeholders to facilitate effective working relationships.
- Configure, document and maintain fundamental server requirements for the effective functioning of applications.
- Design, implement and maintain databases to store and retrieve data according to requirements.
- Design and implement a security plan based on best practices, techniques and strategies to minimize risks of hacking and/or data loss.
- Program and debug complex applications using a variety of development technologies and tools to optimize performance and minimize errors.
- Create internet applications that apply design best practices, techniques and strategies for a variety of development projects that comply with accessibility, web and other requirements.
- Develop internet applications reflective of business objectives and client needs.
- Adhere to ethical, legal, and regulatory requirements and/or principles in the development and management of internet applications.
- Participate as a member or leader of a team by applying project management concepts and strategies for the successful completion of a project.
- Select and apply strategies for personal and professional development to enhance work performance.
- Identify and apply discipline-specific practices that contribute to the local and global community through social responsibility, economic commitment and environmental stewardship.

## Program of Study

Level: 01	Courses	Hours
CST8117Z	Cross-Platform Web Design	56.0
CST8209Z	Web Programming I	56.0

CST8260Z	Database System and Concepts	56.0
CST8279Z	Introduction Computer Programming Using Python	70.0
CST8300Z	Achieving Success in Changing Environments	42.0
MAT8001Z	Technical Mathematics for Computer Science	56.0
<b>Level: 02</b>	<b>Courses</b>	<b>Hours</b>
CST8250Z	Database Design and Administration	70.0
CST8253Z	Web Programming II	70.0
CST8254Z	Network Operating Systems	70.0
CST8318Z	Graphics Technologies	42.0
ENL1813Z	Communications I	42.0
<b>General Education Elective: choose 1</b>	<b>Courses</b>	<b>Hours</b>
DSN2001Z	History of Design	42.0
GED0022Z	Positive Psychology: The Science Of Happiness And Well-being	42.0
GED5004Z	Living Green	42.0
GEN2003Z	Healthy Lifestyle	42.0
GEN2007Z	Community Service	42.0
LIB1982Z	Reading For Recreation	42.0
PSI0003Z	Globalization And Sustainability	42.0
SSC0081Z	International Studies	42.0
<b>Level: 03</b>	<b>Courses</b>	<b>Hours</b>
CST8256Z	Web Programming Languages I	70.0
CST8257Z	Web Applications Development	70.0
CST8258Z	Web Project Management	42.0
ENL8720Z	Technical Communication for Technicians	42.0
<b>General Education Elective: choose 1</b>	<b>Courses</b>	<b>Hours</b>
DSN2001Z	History of Design	42.0
GED0022Z	Positive Psychology: The Science Of Happiness And Well-being	42.0
GED5004Z	Living Green	42.0
GEN2003Z	Healthy Lifestyle	42.0
GEN2007Z	Community Service	42.0
LIB1982Z	Reading For Recreation	42.0
PSI0003Z	Globalization And Sustainability	42.0

SSC0081Z	International Studies	42.0
Level: 04	Courses	Hours
CST8259Z	Web Programming Languages II	70.0
CST8265Z	Web Security Basics	70.0
CST8268Z	Project	56.0
CST8325Z	Current Trends in Web Application Development	42.0

## Fees for the 2023/2024 Academic Year

Tuition and related ancillary fees for this program can be viewed by using the Tuition and Fees Estimator tool at <http://www.algonquincollege.com/fee-estimator>

Further information on fees can be found by visiting the Registrar's Office website at <http://www.algonquincollege.com/ro>

Fees are subject to change.

Supplies can be purchased through CDI College.

## Admission Requirements for the 2024/2025 Academic Year

### College Eligibility

- Ontario Secondary School Diploma (OSSD) or equivalent. Applicants with an OSSD showing senior English and/or Mathematics courses at the Basic Level, or with Workplace or Open courses, will be tested to determine their eligibility for admission; OR
- Academic and Career Entrance (ACE) certificate; OR
- General Educational Development (GED) certificate; OR
- Mature Student status (19 years of age or older and without a high school diploma at the start of the program). Eligibility may be determined by academic achievement testing for which a fee of \$50 (subject to change) will be charged.

### Program Eligibility

- English, Grade 12 (ENG4C or equivalent).
- Mathematics, (Grade 12 MCT4C) or (Grade 11 MCR3U) or equivalent; or (Grade 12 MAP4C with a grade of 80% or higher) or (Grade 11 MCF3M with a grade of 70% or higher).
- Applicants with international transcripts must provide proof of the subject specific requirements noted above and may be required to provide proof of language proficiency. Domestic applicants with international transcripts must be evaluated through the International Credential Assessment Service of Canada (ICAS) or World Education Services (WES).
- IELTS-International English Language Testing Service (Academic) Overall band of 6.0 with a minimum of 5.5 in each band; OR TOEFL-Internet-based (iBT)-overall 80, with a minimum of 20 in each component: Reading 20; Listening 20; Speaking 20; Writing 20; OR Duolingo English Test (DET) Overall 110, minimum of 110 in Literacy and no score below 95.

Not sure if you meet all of the requirements? Academic Upgrading may be able to help with that: <https://www.algonquincollege.com/access>

Should the number of qualified applicants exceed the number of available places, applicants will be selected on the basis of their proficiency in English and mathematics.

Note: Applicants should have basic computer skills, such as keyboard proficiency, Internet browsing and searching, and proficiency with an office software suite (word processing, spreadsheets, etc.) prior to the start of the program. The Mobile Learning Center Coach (C102) offers training in these skills if needed. While programming experience is not a requirement to enter the program, aptitude for programming is necessary and would include strong language, problem solving and logic skills. This is often demonstrated by skill and enjoyment in solving word problems in math.

## **Admission Requirements for 2023/2024 Academic Year**

### **College Eligibility**

- Ontario Secondary School Diploma (OSSD) or equivalent. Applicants with an OSSD showing senior English and/or Mathematics courses at the Basic Level, or with Workplace or Open courses, will be tested to determine their eligibility for admission; **OR**
- Academic and Career Entrance (ACE) certificate; **OR**
- General Educational Development (GED) certificate; **OR**
- Mature Student status (19 years of age or older and without a high school diploma at the start of the program). Eligibility may be determined by academic achievement testing for which a fee of \$50 (subject to change) will be charged.

### **Program Eligibility**

- English, Grade 12 (ENG4C or equivalent)
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<https://www.algonquincollege.com/access>

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## **Application Information**

### **WEB DEVELOPMENT AND INTERNET APPLICATIONS** **Program Code 3002X01FXA**

International applicants please visit this link for application process information:  
<https://algonquincollege.force.com/myACint>

For further information on the admissions process, contact:

Registrar's Office  
Algonquin College  
1385 Woodroffe Ave  
Ottawa, ON K2G 1V8

Telephone: 613-727-0002  
Toll-free: 1-800-565-4723  
TTY: 613-727-7766  
Fax: 613-727-7632  
Contact: <https://www.algonquincollege.com/ro>

## **Additional Information**

Curriculum is reviewed annually to reflect evolving industry standards in the information technology field.

For more information regarding this program, please email <mailto:ACsupport@cdicollge.ca>.

## **Course Descriptions**

### **CST8117Z Cross-Platform Web Design**

Technologies on the web evolve quickly. Every year brings new devices and with them new capabilities. These devices present many challenges and opportunities to web developers. Fundamentals of web development using hypertext markup language (HTML), and cascading style sheets (CSS) are reviewed, with a focus on developing responsive and mobile websites. Multiple IDEs are introduced and used to complete hands-on projects.

Prerequisite(s): none  
Corerequisite(s):none

### **CST8209Z Web Programming I**

Emphasis is on client-side browser scripting using JavaScript. Students focus on the theory behind client-side web scripting and how to manage interactive sites that use JavaScript to generate and manipulate a page's HTML and CSS. Topics include object detection, DOM manipulation, timers and animation, event handling, functions, jQuery introduction, form validation, timers and simple animations.

Prerequisite(s): none  
Corerequisite(s):none

### **CST8250Z Database Design and Administration**

A solid theoretical and practical understanding of database design and database administration is provided. The material is dealt with from the point of view of the user, the database designer and the database administrator. Topics to be covered include relational database design (e.g., data modelling, normalization, ER diagrams, integrity constraints) and database administration (e.g., user management, backups and restores, database security).

Prerequisite(s): CST8260Z  
Corerequisite(s):none

### **CST8253Z Web Programming II**

Through the study of C# and ASP.net, students learn the concepts of object-oriented programming as applied to the design, the development and the debugging of ASP.net web. Object-oriented concepts, such as encapsulation, inheritance, abstraction and polymorphism are covered and reinforced with practical applications. The course also continues the development of Web Programming concepts by examining and using HTML form elements, web server controls, the ASP.NET Page class, its inherent Page, Request, Response and Cookies objects.

Prerequisite(s): CST8209Z and CST8279Z and MAT8001Z  
Corerequisite(s):none

### **CST8254Z Network Operating Systems**

Students are introduced to the concepts behind implementing network operating systems in a multiple user, computer and Internet Protocol (IP) networked environment. Topics include



managing and updating user accounts, access rights to files and directories, Transmission Control Protocol/Internet Protocol (TCP/IP) and TCP/IP services: Domain Name System (DNS), Hyper Text Transfer Protocol (HTTP/HTTPS) and File Transfer Protocol (FTP/SFTP). Theory and practical lab assignments are reinforced to install and configure a network operating system and the services mentioned.

Prerequisite(s): CST8279Z and MAT8001Z

Corerequisite(s):none

### **CST8256Z Web Programming Languages I**

Emphasis is placed on ways of moving data between web pages and databases using the .NET platform: C#, ASP.NET, (as well as ASP.NET Core), Microsoft Entity (as well as Microsoft Entity Framework core) and the .NET Framework (as well as .NET Framework core). Students focus on how web applications can interact with databases through Entity Frame or other technologies. Server-side methods and the advantages of multi-tiered and MVC (Model View Controller) application architecture are explored.

Prerequisite(s): CST8253Z and CST8260Z

Corerequisite(s):none

### **CST8257Z Web Applications Development**

Students are introduced to PHP and how this technology is used to create dynamic server-side web applications. Students learn how to build database-driven Web applications using PHP. Students learn techniques to access and process data, manage state information, upload and download files, interact with the file system and manipulate pictures through the study of examples. The course concludes with a mini-project to develop a social media network with emphasis on sharing and managing picture albums.

Prerequisite(s): CST8209Z and CST8260Z

Corerequisite(s):none

### **CST8258Z Web Project Management**

This course introduces students to the software engineering process. System engineering, design, software quality assurance and testing are explored in detail. The course consists of lectures, case studies and practical lab group work. Project teams are provided with the opportunity to apply sound software engineering principles in the scoping and analysis of web-related projects. Students must produce appropriate documentation to support the project progression to the fourth level Project course.

Prerequisite(s): CST8253Z

Corerequisite(s):none

### **CST8259Z Web Programming Languages II**

The concepts and use of high level tools and current web programming languages used in web development, such as XML and JSON, Content Management Systems Web Services and JavaScript frameworks are addressed.

Prerequisite(s): CST8256Z and CST8257Z and CST8258Z

Corerequisite(s):none

### **CST8260Z Database System and Concepts**

A solid theoretical and practical understanding of database systems is provided. Topics covered include relational database design, data definition and manipulation using the Structured Query Language (SQL). Participants practise designing a database, and extracting information from a database using SQL.

Prerequisite(s): none

Corerequisite(s):none

**CST8265Z Web Security Basics**

Students explore how to secure website and web applications. Tools and techniques for understanding basic web environment security and web application security are also explored. Common web application vulnerabilities and the mechanisms/tools to detect and prevent them are investigated. This may include such things as encryption, secure socket layers (SSL), authentication and authorization.

Prerequisite(s): CST8256Z and CST8257Z and CST8258Z  
Corerequisite(s):none

**CST8268Z Project**

Students apply sound software engineering principles in the design and implementation of a major web-related project. Students work in teams under the direction of a staff advisor. The projects undertaken are conceived either internally (by the College) or externally (local industry or organizations). In the case of external projects, the industry professionals act as customers. Students must produce appropriate documentation to support the project progression. A formal project presentation to peers, faculty, staff and invited guests is required at the end of the course.

Prerequisite(s): CST8257Z and CST8258Z  
Corerequisite(s):none

**CST8279Z Introduction Computer Programming Using Python**

Emphasis is on principles of software development, style and testing. Students learn the basics of robust computer programming, with emphasis on correctness, structure, style and documentation using Python. Theory is reinforced with application by means of practical laboratory assignments.

Prerequisite(s): none  
Corerequisite(s):none

**CST8300Z Achieving Success in Changing Environments**

Rapid changes in technology have created personal and employment choices that challenge each of us to find our place as contributing citizens in the emerging society. Life in the 21st century presents significant opportunities, but it also creates potential hazards and ethical problems that demand responsible solutions. Students explore the possibilities ahead, assess their own aptitudes and strengths, and apply critical thinking and decision-making tools to help resolve some of the important issues in our complex society with its competing interests.

Prerequisite(s): none  
Corerequisite(s):none

**CST8318Z Graphics Technologies**

Students are introduced to graphics and illustration programs in the computer environment. Students also learn skills and production techniques which help to design effective interfaces for websites, mobile websites and mobile applications. Focus is placed on hands-on learning of software, such as Adobe Photoshop and Illustrator. Basic design concepts are covered within the context of becoming productive with the software packages.

Prerequisite(s): none  
Corerequisite(s):none

**CST8325Z Current Trends in Web Application Development**

The field of web development is dynamic and constantly changing with new tools, workflows and best practices for constructing usable application. Students explore current trends in Web Application Development through guest speakers' presentations, case studies and hands-on exercises. Topics like eCommerce, eGovernment, eHR, Development frameworks and Content



Management Systems are explored.

Prerequisite(s): CST8256Z and CST8257Z and CST8258Z

Corerequisite(s):none

### **DSN2001Z History of Design**

Visual communications and graphic design have played a key role in the evolution of communication through a number of historical and social art movements. Graphic design has had a major impact on civilizations over the ages. Students explore graphic design's many influences, including the invention of writing and alphabets, the origins of printing and typography, Victorian, Art Nouveau, Modern Art, and Postmodern design, to the present-day computer revolution and its influence on the many forms of contemporary visual communication that surround us every day.

Prerequisite(s): none

Corerequisite(s):none

### **DSN2001Z History of Design**

Visual communications and graphic design have played a key role in the evolution of communication through a number of historical and social art movements. Graphic design has had a major impact on civilizations over the ages. Students explore graphic design's many influences, including the invention of writing and alphabets, the origins of printing and typography, Victorian, Art Nouveau, Modern Art, and Postmodern design, to the present-day computer revolution and its influence on the many forms of contemporary visual communication that surround us every day.

Prerequisite(s): none

Corerequisite(s):none

### **ENL1813Z Communications I**

Communication remains an essential skill sought by employers, regardless of discipline or field of study. Using a practical, vocation-oriented approach, students focus on meeting the requirements of effective communication. Through a combination of lectures, exercises, and independent learning, students practise writing, speaking, reading, listening, locating and documenting information and using technology to communicate professionally. Students develop and strengthen communication skills that contribute to success in both educational and workplace environments.

Prerequisite(s): none

Corerequisite(s):none

### **ENL8720Z Technical Communication for Technicians**

Clear, concise and detailed communication is essential for technical workplaces. Students plan and execute a variety of formal and informal visual, oral and written communication tasks. Exercises and activities foster confidence and competence in workplace communication.

Prerequisite(s): ENL1813Z

Corerequisite(s):none

### **GED0022Z Positive Psychology: The Science Of Happiness And Well-being**

While fulfillment and well-being mark some people's lives, many others remain dissatisfied with life. Positive Psychology is concerned with explaining how individuals and communities flourish through the scientific exploration of happiness, optimal human functioning, and civic engagement. The field of Positive Psychology has the objective of making life more satisfying and meaningful through interventions that promote and develop qualities such as self-knowledge, learned optimism, gratitude, mindfulness, resilience, and community connection. Students participate in both interactive lectures and on-line discussions, maintain weekly journals, and develop personal strengths through direct engagement with well-being initiatives.

Prerequisite(s): none

Corerequisite(s):none

**GED0022Z Positive Psychology: The Science Of Happiness And Well-being**

While fulfillment and well-being mark some people's lives, many others remain dissatisfied with life. Positive Psychology is concerned with explaining how individuals and communities flourish through the scientific exploration of happiness, optimal human functioning, and civic engagement. The field of Positive Psychology has the objective of making life more satisfying and meaningful through interventions that promote and develop qualities such as self-knowledge, learned optimism, gratitude, mindfulness, resilience, and community connection. Students participate in both interactive lectures and on-line discussions, maintain weekly journals, and develop personal strengths through direct engagement with well-being initiatives.

Prerequisite(s): none  
Corerequisite(s):none

**GED5004Z Living Green**

The need to lead healthy, environmentally conscious lives is increasingly important. Students acquire the practical knowledge and skills required to explore current environmental challenges and identify personal plans for living in an environmentally responsible manner. Through a combination of assignments, discussion boards, and quiz work, students investigate the history and development of current environmental concerns, the environmental impact of our choices and behaviours, and strategies involved in living green.

Prerequisite(s): none  
Corerequisite(s):none

**GED5004Z Living Green**

The need to lead healthy, environmentally conscious lives is increasingly important. Students acquire the practical knowledge and skills required to explore current environmental challenges and identify personal plans for living in an environmentally responsible manner. Through a combination of assignments, discussion boards, and quiz work, students investigate the history and development of current environmental concerns, the environmental impact of our choices and behaviours, and strategies involved in living green.

Prerequisite(s): none  
Corerequisite(s):none

**GEN2003Z Healthy Lifestyle**

Are you eating healthy foods? Do you exercise regularly? Do you know how to prevent injuries and disease? These are some of the skills necessary to live a healthy lifestyle. Through self-evaluation, weekly journals, and hands-on exercises students assess their personal lifestyles and learn how to improve them.

Prerequisite(s): none  
Corerequisite(s):none

**GEN2003Z Healthy Lifestyle**

Are you eating healthy foods? Do you exercise regularly? Do you know how to prevent injuries and disease? These are some of the skills necessary to live a healthy lifestyle. Through self-evaluation, weekly journals, and hands-on exercises students assess their personal lifestyles and learn how to improve them.

Prerequisite(s): none  
Corerequisite(s):none

**GEN2007Z Community Service**

Volunteerism not only benefits a community; it can broaden the worldview of the volunteer.

Students who give their time and energy to an approved community partner gain an opportunity to reflect on the value of the volunteer in contemporary society. Through research and discussion, students consider different types of volunteer settings, trace the history of volunteer organizations, examine the various roles volunteers play within society and reflect on ethical issues.

Prerequisite(s): none  
Corerequisite(s):none

### **GEN2007Z Community Service**

Volunteerism not only benefits a community; it can broaden the worldview of the volunteer. Students who give their time and energy to an approved community partner gain an opportunity to reflect on the value of the volunteer in contemporary society. Through research and discussion, students consider different types of volunteer settings, trace the history of volunteer organizations, examine the various roles volunteers play within society and reflect on ethical issues.

Prerequisite(s): none  
Corerequisite(s):none

### **LIB1982Z Reading For Recreation**

Reading gives us knowledge and new ideas to draw from in the future. It tones the mind in ways similar to the way exercise tones the body. As a result, time spent in reading for recreation has benefits beyond the immediate appreciation of the text. Students examine appeal factors of various genres of fiction and non-fiction by reviewing the history and classics of each genre, considering the therapeutic values of reading, and examining recent trends in online reading and publishing.

Prerequisite(s): none  
Corerequisite(s):none

### **LIB1982Z Reading For Recreation**

Reading gives us knowledge and new ideas to draw from in the future. It tones the mind in ways similar to the way exercise tones the body. As a result, time spent in reading for recreation has benefits beyond the immediate appreciation of the text. Students examine appeal factors of various genres of fiction and non-fiction by reviewing the history and classics of each genre, considering the therapeutic values of reading, and examining recent trends in online reading and publishing.

Prerequisite(s): none  
Corerequisite(s):none

### **MAT8001Z Technical Mathematics for Computer Science**

The study of algebraic and transcendental functions is an essential prerequisite to Calculus. Students manipulate algebraic expressions, solve algebraic equations and linear systems and learn the properties of and graph algebraic and transcendental functions. Students investigate computer number systems in addition to Boolean algebra and logic to help solve problems involving computer systems. Students also study the addition and subtraction of vectors using vector components. Delivered in a modular format, this course is equivalent to the completion of all of the following math modules MAT8100 - A, B, C, D, E, F, and L.

Prerequisite(s): none  
Corerequisite(s):none

### **PSI0003Z Globalization And Sustainability**

The rapid growth of the global economy raises fundamental questions: How do trade and politics affect development and the environment? What are the effects of free trade and the rise of multinational corporations on local cultures? What are the effects of the clash of cultures produced by international travel, migration, and new social, collaborative technologies that send film, books, television, music and other proprietary content spinning around the world instantly? Is globalization

environmentally sustainable? Students examine these and other questions and analyze the day-to-day choices raised by globalization in an increasingly interconnected world.

Prerequisite(s): none

Corerequisite(s):none

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Prerequisite(s): none

Corerequisite(s):none

### **SSC0081Z International Studies**

Understanding life in an increasingly globalized world is paramount. Students learn about the relationships that cross national and regional borders, and are responsible for many of the products that we buy, foods that we eat and events that affect our lives. Through a combination of lectures, discussions, and activities, students explore the role that world geography, technology, political systems and security play in global problems.

Prerequisite(s): none

Corerequisite(s):none

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Prerequisite(s): none

Corerequisite(s):none