COMPUTER SYSTEMS TECHNICIAN PROGRAM (T141)

PROGRAM NAME: Computer Systems Technician
COURSE CODE: T141
SCHOOL: School of Computer Technology
CENTRE: Arts, Design and Information Technology
LOCATION: Casa Loma Campus
DURATION: 2 years (4 semesters)
STARTING MONTH: September, January
CREDENTIAL: Ontario College Diploma
YEAR OF STUDY: 2020-2021
METHOD OF STUDY: FT
APPLY TO: Ontario Colleges

TUITION
$3,978.00 *

ADDITIONAL COST
* Amounts listed are the total of tuition, materials, student service and ancillary fees for the first two semesters of programs starting in Fall 2019. Fees are subject to change for programs starting in Fall 2020 and at later dates.

FINANCIAL ASSISTANCE
This program is approved for OSAP funding, provided the applicant meets OSAP eligibility criteria.

As the Information Technology (IT) sector continues to grow in Toronto and our industry partners report skills shortages, George Brown College is helping to meet employer demand by educating IT professionals who understand all aspects of computer systems. Our two-year Computer Systems Technician program provides students with a broad and in-depth technical base, through courses in the high-demand areas of system support, network administration and web technologies. The curriculum prepares graduates with the strong administration, troubleshooting and design skills they need for careers in IT.
George Brown continues to invest in up-to-date networking, wireless and security lab equipment to help students develop hands-on installation, configuration and troubleshooting skills. Students use the NetLab platform, which enables them with 24/7 remote access to Cisco Systems physical equipment. This investment, along with our hands-on teaching environment, was recognized by Cisco when the college was designated an Area Support Centre and Instructor Training Centre.

Graduates of the Computer Systems Technician program are prepared to write several industry certification exams that are in-demand by employers.

**Note:** Students who start the program in January (Winter term) will be required to attend classes during the summer months (May to August).

### PROGRAM STANDARDS AND LEARNING OUTCOMES

The graduate has reliably demonstrated the ability to:

- Identify, analyze, develop, implement, verify and document the requirements for a computing environment.
- Contribute to the diagnostics, troubleshooting, documenting and monitoring of technical problems using appropriate methodologies and tools.
- Implement and maintain secure computing environments.
- Implement robust computing system solutions through validation testing that aligns with industry best practices.
- Communicate and collaborate with team members and stakeholders to ensure effective working relationships.
- Select and apply strategies for personal and professional development to enhance work performance.
- Apply project management principles and tools when working on projects within a computing environment.
- Adhere to ethical, legal, and regulatory requirements and/or principles in the development and management of computing solutions and systems.
- Assist with the implementation of computer systems and cloud solutions.
- Install, configure, troubleshoot, maintain, upgrade and decommission computing system infrastructures.
- Automate routine tasks using scripting tools and programming languages.
- Install and monitor a database management system in response to specified requirements.
- Provide technical support for computing system infrastructures that aligns with industry best practice.

### REQUIRED COURSES

#### SEMESTER 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Course name</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP1151</td>
<td>IT Essentials</td>
</tr>
<tr>
<td>COMP1176</td>
<td>Introduction to Networks - CCNA 1</td>
</tr>
<tr>
<td>COMP1223</td>
<td>Web Development Fundamentals</td>
</tr>
<tr>
<td>GSSC1045</td>
<td>Business Applications for Information Technology</td>
</tr>
<tr>
<td>MATH1162</td>
<td>Mathematics for Computer Technology I</td>
</tr>
<tr>
<td>COMM1007</td>
<td>College English**</td>
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</tbody>
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#### SEMESTER 2

<table>
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<tr>
<th>Code</th>
<th>Course name</th>
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<tbody>
<tr>
<td>COMP1203</td>
<td>Routing and Switching Essentials - CCNA 2</td>
</tr>
<tr>
<td>COMP3044</td>
<td>UNIX Essentials</td>
</tr>
<tr>
<td>COMP1231</td>
<td>Web Programming</td>
</tr>
<tr>
<td>COMP3105</td>
<td>Desktop Operating Systems</td>
</tr>
<tr>
<td>MATH1172</td>
<td>Mathematics for Computer Technology II</td>
</tr>
<tr>
<td>GSSC1027</td>
<td>Personal Finance</td>
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#### SEMESTER 3

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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>COMP1196</td>
<td>Scaling Networks - CCNA 3</td>
</tr>
<tr>
<td>COMP2064</td>
<td>Windows Servers Active Directory</td>
</tr>
<tr>
<td>COMP2144</td>
<td>Web Server Administration</td>
</tr>
<tr>
<td>COMP2148</td>
<td>Professional Workplace Competencies</td>
</tr>
<tr>
<td>COMP3066</td>
<td>UNIX System Administration</td>
</tr>
<tr>
<td>GNED</td>
<td>General Education Elective</td>
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</tbody>
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#### SEMESTER 4

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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>COMP1197</td>
<td>Connecting Networks - CCNA 4</td>
</tr>
<tr>
<td>COMP2102</td>
<td>Wireless Technology Fundamentals</td>
</tr>
<tr>
<td>COMP2141</td>
<td>Windows Server Network Infrastructure</td>
</tr>
<tr>
<td>COMP2152</td>
<td>Open Source Development</td>
</tr>
<tr>
<td>COMP3061</td>
<td>Computer Security Fundamentals</td>
</tr>
<tr>
<td>GNED</td>
<td>General Education Elective</td>
</tr>
</tbody>
</table>

**Based on the results of your placement test, you may be required to take COMM1003 (English Skills) or CESL1003 (English Skills – ESL) before progressing to COMM1007. COMM1003/CESL1003 does not count as a course required for graduation, and you will be charged for this extra course. Please visit georgebrown.ca/assessment for more information.

### CAREER OPTIONS

Computer System Technicians establish, operate, maintain and co-ordinate the use of local and wide area networks (LANs and WANs), software services and related computer equipment. They set up and maintain Internet and Intranet websites and web-server technologies, and monitor and optimize network connectivity and performance. They are employed in Information Technology units throughout the private and public sectors. Supervisors of Computer Network Technicians are included in this group.
YOUR CAREER

Graduates can provide client support and network technical support in a wide variety of industries. Opportunities exist in companies that provide computer support services to other businesses, and in organizations that specialize in the sale and installation of computer systems and networks. Graduates may also find employment working directly with business clients, providing training services and ongoing support to assist them in using computer applications effectively.

The curriculum also prepares students to, after graduating from the program, write several of the examinations leading to industry certification in Network Administration and Support.

FUTURE STUDY OPTIONS

Graduates may continue directly into the third year of the Computer Systems Technology program (T147), and earn an Ontario College Advanced Diploma in two additional semesters.

Students who successfully complete this program may qualify for entry into university degree programs. This includes credit towards the Athabasca University BSc-CIS (PD).

For further information on future study options, see georgebrown.ca/transferguide.

EDUCATIONAL/DEGREE PATHWAY

Opportunities to receive transfer credits toward further study to attain a degree are available.

ADMISSION REQUIREMENTS

Applicants are selected on the basis of their academic achievement, including the required courses, and any other selection criteria outlined below.

- Ontario Secondary School Diploma or equivalent**
- Grade 12 English (C or U)
- Grade 11 Math (M or U) or Grade 12 (C or U)

** MATURE STUDENT STATUS (19 YEARS OF AGE OR OLDER AND NO OSSD)

Mature Students may take the Admissions Assessment for English and Math, OR may consider upgrading to achieve the credit(s) needed in English and Math.

Please note that George Brown is committed to ensuring that applicants will succeed in their program of choice and meeting the minimum requirements does not guarantee admission to the program. Applicants may be required to have grades higher than the minimum requirements stated.

COURSE EXEMPTIONS

College or university credits may qualify you for course exemptions. Please visit georgebrown.ca/transferguide for more information.

INTERNATIONAL STUDENTS

Visit the International Admissions page for more information.

APPLY TO

Domestic students should apply through Ontario Colleges.

CONTACT US

School of Computer Technology
Phone: 416-415-5000, ext. 4287
Email: computertechnology@georgebrown.ca
The office hours are:
Monday – Thursday: 8 a.m. – 7 p.m.
Friday: 8 a.m. – 4 p.m.
Program Co-ordinator: Stephan Caneff
Phone: 416-415-5000, ext. 6748
Email: scaneff@georgebrown.ca
For more information about George Brown College, you may also call the Contact Centre at 416-415-2000 (TTY 1-877-515-5559) or long distance 1-800-265-2002.

VISIT OUR CAMPUS

The Computer Systems Technician program is offered through our School of Computer Technology from our Casa Loma Campus at 146 Kendal Avenue. Sign up for an Information Session or Campus Tour to learn more about George Brown College and the program. You can also explore our virtual tour.

LINKS REFERENCE

2. https://www.georgebrown.ca/international/futurestudents/tuitionfees/
3. https://www.georgebrown.ca/programs/computer-systems-technology-program-t147/
5. https://www.georgebrown.ca/upgrading-credits/english-diploma/
7. https://www.georgebrown.ca/international/futurestudents/howtoapply/
10. https://www.georgebrown.ca/computertechnology/
12. https://www.google.ca/maps/place/146+Kendal+Ave,+Toronto,+ON+M5R+1M3/data=!4m2!3m1!1s0x882b349c7146b3f7:0x6edb6695c6d490f6?sa=X&ved=0ahUKEwjvpbuOY7vBAhUB7oMKHFsYDNQQ8gEIKDA
13. https://www.georgebrown.ca/computertechnology_info/
15. https://vt.georgebrown.ca/
George Brown College is continually striving to improve its programs and their delivery. The information contained in this calendar is subject to change without notice. It should not be viewed as a representation, offer or warranty. Students are responsible for verifying George Brown College admission, graduation, and fee requirements as well as any requirements of outside institutions, industry associations, or other bodies that may award additional designations concurrently with, or after completion of, a George Brown College program.