

## Programs

- Applied Computing
- Computer Science
- Computer Science and Mathematics
- Computing and Business
- Computing and Network Communications
- Game Programming
- Interactive Arts and Science
- Mathematics and Statistics






## Co-op

- **Assistant Technician** – Works with the IT team to solve customer issues.
- **Business Analyst** – Works with the IT team to improve the quality of the services being delivered to consumers.
- **Data Analyst** – Analyzes statistics to come up with solutions to business problems.
- **Information Security Analyst** – Plans and implements security measures to protect an organization's computer systems.
- **Junior User Experience Designer** – Enhances the customer experience by improving the usability and accessibility of products.
- **Software/Application Developer** – Creates custom software or apps for a specific customer or for companies to sell to the general public.
- **Web Developer** – Creates websites while ensuring a visually interesting homepage and user-friendly design.

## Experiential Education Courses

-  **Collaborative Practicum in Interactive Media Design and Production (IASC 4L00)** – Interactive Arts and Science students plan and produce a collaborative interactive media project.
-  **Computing Project (COSC 3P99)** – Computer Science students spend half of a year developing a project of their choice or directed reading essay under faculty supervision.
-  **Game Production I (BTGD 3Y55)** – GAME students work together to conceive, design, document and prototype a new game concept.
-  **Internship in Game Programming (COSC 3Q95)** – Game Programming students complete an internship in a business related to the gaming industry.
-  **Introduction to Marketing (MKTG 2P91)** – Working with a local organization, Computing and Business students develop a marketing plan with their client using theories learned in the course for the purpose of implementation.
-  **Mathematics Integrated with Computers and Applications III (MATH 3P40)** – Mathematics students use combinations of mathematics and computers to solve sophisticated real-world problems in a final project in their discipline.
-  **Mobile Computing (COSC 3P97)** – Computer Science students collaborate with local partners to build mobile applications.
-  **Project Collaborations Across Diverse Programs (IASC 3F93)** – Brock students from various programs collaborate on an interactive media project.
-  **Software Engineering 2 (COSC 4P02)** – Computer Science and Computing and Business students develop a large-scale software engineering project in a competitive team setting.
-  **Team-based Practicum in Game Design and Production (IASC 4F03)** – Interactive Arts and Science students plan and produce a collaborative game project.
-  **Website Creation (APCO/STAC/VISA 2P61)** – Computer Science and Visual Arts students explore the basic technical and design foundations of website design and development through labs.

## Brock's Core Competencies

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|--|--|--|--|
|  Act Innovatively |  Collaborate Effectively    |  Know Yourself                  |  Think Critically |
|  Apply Knowledge  |  Communicate Effectively    |  Practice Intercultural Fluency | Learn more at  |
|  Be Curious       |  Engage with Your Community |  Surgite!                       | <a href="http://brocku.ca/ccee">brocku.ca/ccee</a>   |

# Information & Communications Technology

## Clubs

- Brock Sport and Business Association
- Commerce and ECON Association
- Cybersecurity Club
- Faculty of Math and Science Council
- Game Research & Development

## Competitions

- Computer Science Games
- Innovative Designs for Accessibility (IDeA) student competition
- International Collegiate Programming Contest
- Level Up Showcase
- The Collegiate Leadership Competition (CLC)

## Volunteering & Student Jobs

### Volunteering:

- ✓ Brock TV
- ↻ Executive positions on school clubs
- ✓ Living Learning Community (LLC) Peer Mentor in Residence
- ✋ Various opportunities through partnerships between community organizations and the Brock University Volunteer Association (BUVA)

### Student Jobs:

- ✓ A-Z Learning Services (Tutor)
- ✓ Brock Ambassador (Main Campus)
- ✓ Brock TV (Producer, Commentator)
- 💡 ITS Help Desk
- 👥 Smart Start (Team Assistant and Team Lead)
- ✓ Youth University (Camp Instructor and Coordinators)

## Professional Development

- ↻ A-Z Learning Workshops
- ↻ Med Plus or Law Plus
- 🌐 Study, volunteer or work abroad
  - The Mathematics Learning Centre

### Leadership Programming (Student Life and Success):

- 👥 Brock Leads
- 👥 Building Leaders
- ✓ Foundations in Leadership
- ↻ The Niagara Region Student Leadership Summit (NSLS)