

Bridging to Software Systems Design

Program #: 0111
 School: School of Engineering Technology and Applied Science
 Program Type: Degree program
 Program Length: 2 years/ 4 semesters
 Credential: Bachelor of Applied Information Sciences Degree
 Start Date: Fall
 Location: Progress Campus

Program Contact
 Software Systems Design
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Description

Centennial College is making it possible to complete the Software System Design (SSD) degree in two years. Computer program/analyst graduates or software engineering graduates from Centennial or from a similar program from another college may be eligible to obtain this Bachelor of Applied Information Sciences in two years. The Software Systems Design degree program is a fully CIPS ISTAC accredited program.

Benefits

Program Highlights

- Complete three bridging courses: two in mathematics and one in computer architecture during regular semesters
- Join the fifth semester of Software Systems Design (SSD) degree starting every fall and graduate in two years
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Career Outlook

- Software developers
- Software testers
- Game programmers
- Computer programmers
- System analysts
- Business Analysts
- Web application developers
- Database administrators
- Applications or software support

Admission Requirements

Eligibility

- three-year computer programmer/analyst diploma from an Ontario college, or a computer science/information technology/software engineering degree from a recognized institution with a GPA of 2.8 or higher.

Non-Academic Requirements

- **English proficiency** will be considered
- Transcript review is required

Course Outline

Semester 5 Courses		
Course Code	Course Title	Campus
SWS-314	Computer and Human Interaction	Progress Campus
SWS-312	Database Programming	Progress Campus
LIBELECT	Liberal Studies Elective	Progress Campus
MTH-110	Logic and Problem-solving Strategies	Progress Campus

SWS-311	Programming for Network Systems	Progress Campus
BUS-310	Project Management 1	Progress Campus
SWS-310	Software Standards, Testing & Maintenance	Progress Campus

Semester 6 Courses

Course Code	Course Title	Campus
SWS-322	Architecting Database Solutions	Progress Campus
NET-112	Computer Architecture	Progress Campus
MTH-120	Discrete Mathematics 1	Progress Campus
MTH-220	Discrete Mathematics 2	Progress Campus
BUS-411	Entrepreneurship in the New Economy	Progress Campus
SWS-321	Software Design Patterns	Progress Campus
SWS-320	Software Development Project 1	Progress Campus
SWS-223	Technical Writing and Documentation	Progress Campus

Semester 7 Courses

Course Code	Course Title	Campus
SWS-422	Emerging Technologies	Progress Campus
LIBELECT	Liberal Studies Elective	Progress Campus
PROELECT	Professional Elective	Progress Campus
BUS-410	Project Management 2	Progress Campus
SWS-410	Software Development Project 2	Progress Campus
SWS-411	Software Quality Assurance	Progress Campus

Semester 8 Courses

Course Code	Course Title	Campus
BUS-312	Business Consulting	Progress Campus
SWS-421	Cryptography and Information Security	Progress Campus
LIBELECT	Liberal Studies Elective	Progress Campus
PROELECT	Professional Elective	Progress Campus
SWS-420	Software Development Project 3	Progress Campus

Professional Electives

SWS-801 Service Oriented Architecture 1
 SWS-802 Service Oriented Architecture 2
 SWS-901 Wireless Systems Design 1
 SWS-902 Wireless Systems Design 2

Liberal Studies Electives

HIS-302 Canadian Studies
 LIT-302 Propaganda Literature
 PSY-301 Social Psychology
 PSY-303 Consumer Psychology
 PSY-304 Principles of Human Behaviour
 MTH-350 Calculus with Applications
 SOC-100 Caribbean Studies