

J.P. Corriveau

Graduate Director

Director of OCICS

jeanpier@scs.carleton.ca

Erenia Oliver

Kathy Waitschat-Drew

Ali Rofan

Graduate Administrators

grad.scs@carleton.ca

Michel Barbeau

Director – School of Computer Science

Michel.Barbeau@carleton.ca

Mylien Reid

School Administrator

Mylien.Reid@carleton.ca

WELCOME

to the
**Computer Science
Graduate Programs**



Carleton
UNIVERSITY

OUTLINE

- What is OCICS ?
- Some info for everyone: program requirements, courses, etc.
- Some info for PhD students
- Some info for Masters students
- Questions

The OCICS Web site:

<http://service.scs.carleton.ca/ocics>



OCICS

About OCICS

Programs & Courses

Timetable

Contact Us

Ottawa-Carleton Institute for Computer Science

Ottawa-Carleton Institute for Computer Science (OCICS)

Students who wish to pursue graduate studies in computer science leading to the degree of Master of Computer Science (MCS) or Doctor of Philosophy in Computer Science (PhD) can do so in joint programs offered by the School of Electrical Engineering and Computer Science (EECS), at the University of Ottawa and the School of Computer Science (SCS) at Carleton University under the auspices of the Ottawa-Carleton Institute for Computer Science (OCICS).

OCICS is a joint program between Carleton University and the University of Ottawa offering graduate degrees in Computer Science at the Masters and Doctoral levels.

The Institute is responsible for supervising these programs and for providing a framework for interaction between the schools in graduate computer science education. In addition to the faculty members from the two computer science programs, the Institute also has members with computer science expertise from other departments.

Category (aka 'Area') Requirements:

MCS: 1+ OCICS course(s) in 3 of our 4 different research areas:

Theory (T), Engineering (E), Application (A) or Systems (S)

PhD: 3 OCICS courses **within the first 4 terms (no area req!!)**

See list of courses by areas at:

<https://calendar.carleton.ca/grad/gradprograms/computerscience/>

Extra requirements:

Extra requirements are undergraduate courses to be taken as soon as possible and listed on your admission offer

Suggested load:













2 or 3 grad courses per term

Some courses are offered online, most are in class

At Carleton FALL 2023











https://drupal.scs.carleton.ca/ocics/course-timetable?field_course_term_value=Fall&field_course_year_value=2023



| INST | COURSE | AREA | TITLE | INSTRUCTOR | SCHEDULE | ROOM |
|---|------------------------------|------|---|----------------|----------------------------------|--|
|  | COMP 5112 F CSI 5154 IF00 | T,A | Algorithms for Data Science | Maheshwari, A. | Tue: 835-1125 | Click for public class chedule |
|  | COMP 5115 F CSI 5344 IF00 | A | Geometry Processing | van Kaick, O. | Mon: 1005-1125 Wed: 1005-1125 | Click for public class chedule |
|  | COMP 5116 F CSI 5155 IF00 | E,T | Machine Learning | Guo, Y. | Fri: 1435-1725 | Click for public class chedule |
|  | COMP 5118 F CSI 5347 IF00 | S | Trends in Big Data Management | El-Roby, A. | Tue: 1135-1425 | Click for public class chedule |
|  | COMP 5500 A CSI 5352 IF00 | T,S | Selected Topics in Computer Science- Internet Measurements and Security | Abdou, A. | Thu: 1435-1725 | Click for public class chedule |
|  | COMP 5900 C CSI 5138 IH00 | T,A | Selected Topics in Computer Science- Knowledge Representation for Artificial Intelligence | Bertossi, L. | Mon: 1805-2055 | Click for public class chedule |
|  | COMP 5900 D CSI 5138 ID00 | T | Selected Topics in Computer Science- Approximation Algorithms | Obraztsova, S. | Mon: 1435-1725 | Click for public class chedule |
|  | COMP 5900 E CSI 5138 IE00 | T,A | Selected Topics in Computer Science- Advance Machine Learning | Komeili, M. | Tue: 1435-1725 | Click for public class chedule |
|  | COMP 5900 F CSI 5139 IF00 | A | Selected Topics in Computer Science- Eye Tracking in Human-Computer Interaction | Moacdieh, N. | Wed: 1135-1425 | Click for public class chedule |
|  | COMP 5900 G CSI 5138 IG00 | T | Selected Topics in Computer Science- Multiagent Systems | Tsang, A. | Tue: 1305-1425 Thu: 1305-1425 | Click for public class chedule |
|  | COMP 5900 H CSI 5140 IF00 | A,S | Selected Topics in Computer Science - Trusted Computing and Emerging Attacks | Zhao, L. | Thu: 1435-1725 | Click for public class chedule |
|  | COMP 5900 J CSI 5139 IG00 | A | Selected Topics in Computer Science- Game Design and Development Technologies | Thue, D. | Tue: 1005-1125 Thu: 1005-1125 | Click for public class chedule |










At Uottawa FALL 2023



| | | | | | | |
|---|-------------------------------------|----------|--|---------------------|-----------------------|--|
|  | CSI 5122 F00 COMP 5301 O | E | Software Usability | Lethbridge, T. | Wed: 830-1120 | Click for class search tool |
|  | CSI 5134 F00 COMP 5004 O | E,S | Fault Tolerance | Nayak, A. | Thu: 1900-2150 | Click for class search tool |
|  | CSI 5137 B00 COMP 5900 N | E,T | Selected Topics in Software Engineering: AI-enabled Software Verification and Testing | Nejati, S. | Tue: 1430-1720 | Click for class search tool |
|  | CSI 5137 C00 COMP 5900 O | E | Selected Topics in Software Engineering: Applications of NLP and ML in Software Engineering | Sabetzadeh, M. | Fri: 1430-1720 | Click for class search tool |
|  | CSI 5137 F00 COMP 5900 P | E | Selected Topics in Software Engineering: Data Management | Kantere, V. | Tue: 830-1120 | Click for class search tool |
|  | CSI 5138 F00 COMP 5900 Q | T | Selected Topics in Theory of Computing: Computational Complexity | Bogdanov, A. | Wed: 1430-1720 | Click for class search tool |
|  | CSI 5148 F00 COMP 5103 O | T,S | Wireless Ad Hoc Networking | Nayak, A. | Wed: 1900-2150 | Click for class search tool |
|  | CSI 5340 F00 COMP 5340 O | T | Introduction to Deep Learning and Reinforcement Learning | Mao, Yongyi | Thu: 1430-1720 | Click for class search tool |
|  | CSI 5341 F00 COMP 5341 O | A | Learning-based Computer Vision | Lang, J. | Tue: 830-1120 | Click for class search tool |
|  | CSI 5388 F00 COMP 5801 O | A | Topics in Machine Learning: AI for Cybersecurity Applications | Branco, P. | Mon: 830-1120 | Click for class search tool |













At Carleton WINTER 2024



| INST | COURSE | AREA | TITLE | INSTRUCTOR | SCHEDULE | ROOM |
|--|------------------------------|------|--|----------------|----------------------------------|---|
|  | COMP 5119 W CSI 5345 IW00 | E,T | Internet of Things (IoT) Security | Barrera, D. | Wed: 1435-1725 | Click for public class schedule |
|  | COMP 5204 W CSI 5124 IW00 | A | Computational Aspects of Geographic Information Systems | Sack, J. | Tue: 1605-1725 Thu: 1605-1725 | Click for public class schedule |
|  | COMP 5305 W CSI 5129 IW00 | A,S | Advanced Database Systems | Liu, M. | Mon: 1135-1425 | Click for public class schedule |
|  | COMP 5408 W CSI 5121 IW00 | T | Advanced Data Structures | Morin, P. | Tue: 1435-1555 Thu: 1435-1555 | Click for public class schedule |
|  | COMP 5900 E CSI 5140 IW00 | S | Selected Topics in Computer Science-5G Networks | Jun Huang | Tue: 835-955 Thu: 835-955 | Click for public class schedule |
|  | COMP 5900 F CSI 5139 IX00 | A | Selected Topics in Computer Science-Surgical Data Science | Holden, M. | Wed: 835-955 Fri: 835-955 | Click for public class schedule |
|  | COMP 5900 G CSI 5139 IG00 | A | Selected Topics in Computer Science-Multi-agent aspects of Deep (Reinforcement) Learning | Rabinovich, Z. | Mon: 1435-1725 | Click for public class schedule |
|  | COMP 5900 I CSI 5139 IW00 | A | Selected Topics in Computer Science-Texture and Pattern Synthesis | Mould, D. | Tue: 1605-1725 Thu: 1605-1725 | Click for public class schedule |
|  | COMP 5900 J CSI 5138 IW00 | T | Selected Topics in Computer Science-Introduction to Reinforcement Learning | Wen, J. | Mon: 1005-1125 Wed: 1005-1125 | Click for public class schedule |

At Ottawa WINTER 2024



| | | | | | | |
|--|-----------------------------|-----|--|---------------|----------------------------------|---|
|  | CSI 5101 W00 COMP 5307 U | T,A | Knowledge Representation | Barrière, C. | Tue: 1430-1720 | Click for class search tool |
|  | CSI 5106 W00 COMP 5120 U | T,A | Cryptography | Adams, C. | Thu: 1430-1720 | Click for class search tool |
|  | CSI 5155 W00 COMP 5116 U | E,T | Machine Learning | Viktor, H. | Thu: 1430-1720 | Click for class search tool |
|  | CSI 5165 W00 COMP 5709 U | T | Combinatorial Algorithms | Moura, L. | Wed: 1300-1420 Fri: 1130-1250 | Click for class search tool |
|  | CSI 5175 W00 COMP 5220 U | A,S | Mobile Commerce Technologies | Samaan, N. | Mon: 1300-1420 Wed: 1130-1250 | Click for class search tool |
|  | CSI 5180 W00 COMP 5100 U | A | Topics in Artificial Intelligence: Virtual Assistants | Barrière, C. | Thu: 1430-1720 | Click for class search tool |
|  | CSI 5308 W00 COMP 5003 U | T,S | Principles of Distributed Computing | Flocchini, P. | Mon: 1130-1250 Thu: 1300-1420 | Click for class search tool |
|  | CSI 5311 W00 COMP 5101 U | S | Distributed Databases and Transaction Processing Systems | Kiringa, I. | Tue: 1900-2150 | Click for class search tool |
|  | CSI 5342 W00 COMP 5342 U | S | Ubiquitous Sensing Systems for Smart Cities | TBD | Tue: 1430-1720 | Click for class search tool |
|  | CSI 5386 W00 COMP 5505 U | A | Natural Language Processing | Inkpen, D. | Mon: 1430-1720 | Click for class search tool |
|  | CSI 5389 W00 COMP 5401 U | A,S | Electronic Commerce Technologies | Tran, T. | Tue: 1900-2150 | Click for class search tool |
|  | CSI 7163 W00 COMP 6605 P | S | Advanced Topics in Computer Systems: Multimedia Communications | El Saddik, A. | Tue: 1900-2150 | Click for class search tool |

Miscellaneous

- FGPA – Faculty of Graduate and Postdoctoral Affairs
<https://gradstudents.carleton.ca/>
- International Students Services Office (ISSO)
<https://carleton.ca/isso/>
- Counselling and Wellness Services
https://gradstudents.carleton.ca/counselling-and-wellness-services/?_ga=2.229153432.547804220.1646053533-1589758581.1631880079
- Deadlines: <https://calendar.carleton.ca/academicyear/>
- Scholarships: *OGS, NSERC, many internal awards.*
Check out FGPA website that lists all the awards and apply!
<https://gradstudents.carleton.ca/awards-and-funding/>
**** The deadlines to the School are typically in the FALL term! ****
- Carleton Graduate Student Association (get involved!)
<https://gsacarleton.ca/>

PhD

- 3 Courses (NO LONGER in 3 different research areas) + 2 seminars/presentations
- COMP 6907: Comprehensive exam
3 topics: 1 Major, 2 Minors (1 **out of** area of research)
- COMP 6908: Thesis Proposal
Typically done during **second** year
- COMP 6909: Thesis + Defence
Progress Report:
Twice a year, filled by the student and their supervisor

See: <https://calendar.carleton.ca/grad/gradprograms/computerscience/>

Masters - Thesis

- 5 Courses (3 of which in different research areas) minus Advanced Standings, if any, of letter of admission (e.g., for accelerated pathway)
- COMP 5905: Thesis + Defence

See: <https://calendar.carleton.ca/grad/gradprograms/computerscience/>

- About supervision:

<https://gradstudents.carleton.ca/graduate-supervision-responsibilities-expectations-policy/>

<https://carleton.ca/scs/current-students/graduate-students/>

Graduate Studies

- [Faculty of Graduate and Postdoctoral Affairs \(FGPA\) FAQ](#)
- [Ottawa-Carleton Institute for Computer Science \(OCICS\)](#)
 - [Program Requirements and Guidelines](#)
 - [Course Registration Information](#)
 - [OCICS Timetable Fall Term](#)
 - [OCICS Timetable Winter Term](#)
 - [Forms](#)
 - [Co-op](#)
 - [Graduate and Postdoc Professional Development](#): As a graduate student at Carleton, you have access to a variety of professional development resources. These include skill workshops, one-on-one career and writing consultations, career-oriented events, and even structured programs. Challenge yourself by acquiring new skills that can help you boost your employability.
- [Carleton Institute for Data Science \(CUIDS\) Website](#)
- [Human-Computer Interaction \(HCI\) Website](#)
- [Data Science, Analytics, and Artificial Intelligence \(DSAAI\) Website](#)

Forms (1):

MCS Forms

COMP 5905

Scheduling an MCS Thesis Defence

PhD Forms

COMP 6907

Comprehensive Advisory Committee & Reading List

COMP 6907

PhD Comprehensive Exam Specification

COMP 6908

Scheduling a Doctoral Proposal

COMP 6909

Thesis Defence Committee Specification

Seminar Requirement

PhD Seminar Requirement Form

Progress Report -
[Due in April &
December]

Student Progress Report

Forms (2):

Other Forms and Policies

Setting up a Directed Studies

FGPA Thesis Requirements

Faculty of Graduate and Postdoctoral Affairs (FGPA) Forms

Request for Permission to Audit a Course

Research Lab Forms (key/card access request)

Forms (3): https://gradstudents.carleton.ca/wp-content/uploads/Academic_Registration-Change-Form-1.pdf

Faculty of Graduate and Postdoctoral Affairs Academic/Registration Change Form

(All requests must be discussed and supported by the academic unit)

1. **Date (mm/dd/yyyy):** _____ Term of Admission: _____

2. **Student Information:**

| | |
|-----------------------|----------------------|
| Name: _____ | Student #: _____ |
| Department: _____ | Degree: _____ |
| Carleton Email: _____ | Funded: Yes No |

3. **Type of Request & term(s)** (subject to approval):
 - Leave of Absence: Term(s) _____
 - If you hold a TA for the term above a **Leave from Duties** is also required through the TA management system.
 - Registration in: Course # _____ CRN: _____ Course # _____ CRN: _____
 - Course # _____ CRN: _____ Course # _____ CRN: _____

 - Withdrawal from: Course # _____ CRN _____
 - Course # _____ CRN _____
 - Course # _____ CRN _____

 - Withdrawal from thesis/research essay/project for refund purposes only
(must be within refund period for program completion) Term: _____
 - Reinstatement: Term _____
 - Status Change to: Part-time Full-time For term _____ or duration of program _____
 - Withdrawal from Program: Term _____

4. **Reason for this request:** (additional sheets may be attached)

Student Signature

5. **Research/Thesis Supervisor comments if applicable:** (additional sheets may be attached)

Research/Thesis Supervisor Signature: _____

Authorized Departmental Signature: _____ Date: _____

| | | | |
|-------------------|---|---------------------|--|
| Request Approved: | FGPA USE ONLY (Index: REG - In Program Revision) | | |
| Request Denied: | Reason: | | |
| Data Entered: | Date: | Charged to account: | |

"The personal information requested on this form is collected in accordance with Sections 38(2) and 41(1) of the Freedom of Information and Protection of Privacy Act (FIPPA), R.S.O. 1990, c.F.31 as amended. The information provided will not be used for any purposes other than those stated upon this form unless the applicant provides express written consent. Should you have any questions concerning your personal information, please contact Joanne Bree, FIPPA representative for the Faculty of Graduate and Postdoctoral Affairs, 512 Tory Building, 613-520-2525. Carleton University is fully compliant with FIPPA and endeavours at all times to treat your personal information in accordance with this law."



Thank you!
Any questions?