The Department of Electrical and Computer Engineering in the Faculty of Engineering and Applied Science at Queen’s University requests applications from suitably qualified candidates interested in teaching the following undergraduate course in the 2022-23 session.

ELEC 278: Fundamentals of Information Structures
Fall Term Course: September 1, 2022 – December 31, 2022

Course Description

Lecture: 3  
Lab: 0.5  
Tutorial: 0.5

Fundamentals of Data Structures and Algorithms. Data structures are essential building blocks in obtaining efficient algorithms. Data structures play a central role in engineering. Topics covered include arrays, linked lists, stacks, queues, dequeues, asymptotic notation, hash tables and scatter tables, recursion, trees and search trees, heaps and priority queues, sorting, and graphs. Software engineering concepts will be introduced, and some application case studies will be reviewed. The ‘C’ language will be introduced.

Academic Units:
Mathematics 12  
Natural Sciences 0  
Complementary Studies 0  
Engineering Science 24  
Engineering Design 12

PREREQUISITE(S): APSC 142 or APSC 143 or MNTC 313  
EXCLUSION(S): CISC 235

The anticipated enrollment: 170 per Section

Qualifications:

Minimum of a M.A.Sc. Degree in Engineering or a related field, or a BASc. Degree in Engineering with extensive practical experience in engineering communications. Registered as a Professional Engineer (or an Engineer in Training) in the Province of Ontario. Previous teaching experience at the University level will be preferred. Candidates should have excellent communication and presentation skills. Preference will be given to candidates who are registered as professional engineers in the province of Ontario.

Course Syllabus can be found at: https://www.ece.queensu.ca/undergraduate/courses/elec-278.html
**Teaching requirement:**

The above advertised course will be taught on campus. Fall term classes begin on September 06, 2022.

Queen’s University is committed to employment equity and diversity in the workplace, and it invites applications from all qualified individuals. Queen’s is strongly committed to employment equity, diversity, and inclusion in the workplace and encourages applications from Black, racialized/visible minority and Indigenous/Aboriginal people, women, persons with disabilities, and 2SLGBTQ+ persons. All qualified candidates are encouraged to apply; however, Canadians and permanent residents of Canada will be given priority. Academic staff at Queen’s University is governed by a collective agreement between QUFA, QUFA and Queen’s University.

The University will provide support in its recruitment processes to applicants with disabilities, including accommodation that takes into account an applicant’s accessibility needs. If you require accommodation during the interview process, please contact Mary Gillespie, mary.gillespie@queensu.ca.

The [Queen’s University Policy Regarding Mandatory Vaccination Requirements for In-person University Activities](#) requires ALL Community Members, including employees, to be Fully Vaccinated against COVID-19 prior to participating in any In-person University Activities. This is a condition of employment for all employees who are required to attend University Property to perform their employment responsibilities. Individuals who cannot be vaccinated due to substantiated grounds (medical and other protected grounds under the Ontario Human Rights Code) may ask the University to validate the exemption and request an accommodation for these rare circumstances. If approved, they will be subject to additional health and safety measures.

To comply with Federal laws, the University is obliged to gather statistical information about how many applicants for each job vacancy are Canadian citizens/permanent residents of Canada. Applicants need not identify their country of origin or citizenship; however, all applications must include one of the following statements: I am a Canadian citizen/permanent resident of Canada; OR I am not a Canadian citizen/permanent resident of Canada. Applications that do not include this information will be deemed incomplete.

Applications should include a complete and current curriculum vitae, a statement of teaching experience, the names and contact details of two referees who may be contacted, and any relevant other materials the candidate wishes to submit for consideration. Applications can be submitted to the ECE Appointments Committee at the address below, or by email to Mary Gillespie, Mary.gillespie@queensu.ca.

Applications should be received no later than June 16, 2022.

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