Introduction to the theory of computing, including automata theory, formal languages and Turing machines; theoretical models and their applications in various fields of computer science. The emphasis is on practical applications of the theory and concepts rather than formal rigour. Prerequisites: cumulative GPA of 4.50 or better over all major EECS courses (without second digit "5"); LE/EECS 1021 3.00 or LE/EECS 1022 3.00 or LE/EECS 1720 3.00 or LE/EECS 1030 3.00; LE/EECS 1028 3.00 or SC/MATH 1028 3.00 or LE/EECS 1019 3.00 or SC/MATH 1019 3.00. Previously offered as: LE/CSE 2001 3.00. PRIOR TO SUMMER 2013: SC/CSE 2001 3.00.

The course's learning objective is to master the language, concepts, and methods of the theory of computation necessary for, and required of every computer professional.

Course Evaluation

- Assignment 1, 0.5%;
  deadline: tba
- Assignment 2, 0.5%;
  deadline: tba
- Assignment 3, 0.5%;
  deadline: tba
- Assignment 4, 0.5%;
  deadline: tba
- Test 1, 29%; date: tba
- Test 2, 29%; date: tba
• **NOTE:** There will be no makeup tests; if you miss a test for valid medical, compassionate, etc. reasons (valid in accordance with York Un. regulations and documented without delay), the weight of missed tests will be transferred to final exam.

• Final Exam, 40%;  
  *date/location: tba*

• **Assignment location:** all assignments and their solutions will be deposited in the course's directory  
/eecs/dept/course/2018-19/W/2001M

**Course Readings**

The main textbook used in this course is: *Introduction to the Theory of Computation* by Michael Sipser. Other sources on the same subject (such as *Introduction to Automata Theory, Languages, and Computation*, by J.E. Hopcroft, R. Motwani, and J. Ullman) can also be used; however, it would be the student’s responsibility to locate the relevant material when texts other than the recommended one are used.

**ACADEMIC INTEGRITY LINKS**

• Senate Policy on Academic Honesty - http://secretariat-policies.info.yorku.ca/policies/academic-honesty-senate-policy-on/
• Academic Integrity - http://lassonde.yorku.ca/academic-integrity

**STUDENT LINKS**

• Student Rights and Responsibilities - http://oscr.students.uit.yorku.ca/student-conduct
• Religious Observance - https://w2prod.sis.yorku.ca/Apps/WebObjects/cdm.woa/wa/regobs
• Academic Accommodation for Students with Disabilities - http://secretariat-policies.info.yorku.ca/policies/academic-accommodation-for-students-with-disabilities-policy/
• Student Accessibility Services (SAS) - https://accessibility.students.yorku.ca/
• York University’s Policies on Sexual Violence - http://secretariat-policies.info.yorku.ca/policies/sexual-violence-policy-on/
• York University’s Policies on Gender/LGBTQ*/Positive Space - http://rights.info.yorku.ca/lgbtq/

**LAND ACKNOWLEDGEMENT**

• We acknowledge our presence on the traditional territory of many Indigenous Nations. The area known as Tkaronto has been care taken by the Anishinabek Nation, the Haudenosaunee Confederacy, the Huron-Wendat, and the Métis. It is now home to many Indigenous Peoples. We acknowledge the current treaty holders, the Mississaugas of the New Credit First Nation. This territory is subject of the Dish With One Spoon Wampum Belt Covenant, an agreement to peaceably share and care for the Great Lakes region.  
• The Indigenous Framework for York University: A Guide to Action can be found here: http://indigenous.info.yorku.ca/  
• Meaning of a land acknowledgement: http://healthydebate.ca/opinions/indigenous-land-acknowledgements

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Many courses utilize Moodle, York University's course website system. If your course is using Moodle, click here to access it. 
Moodle @ York University