



## COURSE SYLLABUS

# CMPT 105: INTRODUCTION TO COMPUTING AND INTERACTIVE SYSTEMS DESIGN

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### Description

Introduction to ideas and concepts in computer science and the design of interactive systems. Concepts in computing such as algorithms, problem solving, and programming are explored using interactive multimedia systems as the focus. Basic concepts in design and interaction, such as the interaction cycle, event-based behaviour, and prototyping are introduced.

### Restrictions

CMPT 105 can be taken as a science course by non-science majors. Science majors may not receive science credit for this course. CMPT 105 can be taken for credit after the completion of CMPT 100, 102, 120 or 175; but CMPT 100, 102, 120 and 175 cannot be taken for credit after completion of CMPT 105. CMPT 105 cannot be taken for credit after CMPT 111.

### Class Time & Location

#### Lectures

Monday, Wednesday, and Friday 11:30am – 12:20pm  
Thorvaldson Building 124

#### Tutorials

T01 Thursday 10:00am – 11:20am  
T03 Thursday 4:00pm – 5:20pm  
Thorvaldson Building (Spinks addition) S311

### Instructor Information

**Instructor** Dr. Nelson Wong  
**Email** nelson.wong@usask.ca  
**Office Hours** By appointment

### Course Objectives

Learn how to design, build, and talk about interactive systems.

### Student Evaluation

#### Grading Scheme

Assignments	20%
Class Project	20%
Midterm Exam (mid Oct)	15%
Final Exam (Dec)	40%
Participation	5%
<b>Total</b>	<b>100%</b>



## Final Exam Scheduling

The Registrar schedules all final examinations, including deferred and supplemental examinations. Students are advised not to make travel arrangements for the exam period until the official exam schedule has been posted.

**Note: All students must be properly registered in order to attend lectures and receive credit for this course.**

## Recommended Textbook

Learn to Program with Scratch: A Visual Introduction to Programming with Games, Art, Science, and Math  
by Majed Marji. February 2014, 288 pp. ISBN: 978-1-59327-543-3

## Topics

1. Sprites, motion, and repetition
2. Conditional and arithmetic expressions
3. Interaction and events
4. Variables and Lists
5. Messages
6. Subprograms
7. Design process
8. Animation
9. Problem Solving
10. Personas, scenarios, and storyboards
11. Processing
12. Images and colour
13. Sound
14. Structure and navigation
15. Recursion

## Policies

### Missed Examinations

Students who have missed an exam or assignment must contact their instructor as soon as possible. Arrangements to make up the exam may be arranged with the instructor. Missed exams throughout the year are left up to the discretion of the instructor if a student may make up the exam or write at a different time. If a student knows prior to the exam that she/he will not be able to attend, should let the instructor know before the exam.

Final exams – a student who is absent from a final examination through no fault of his or her own, for medical or other valid reasons, may apply to the College of Arts and Science Undergraduate Student Office. The application must be made within three days of the missed examination along with supporting documentary evidence. Deferred exams are written during the February mid-term break for Term 1 courses and in early June for Term 2 and full year courses.

(2013/09. <http://www.arts.usask.ca/students/transition/tips.php>)

### Incomplete Course Work and Final Grades

When a student has not completed the required course work, which includes any assignment or examination including the final examination, by the time of submission of the final grades, they may be granted an extension to permit completion of an assignment, or granted a deferred examination in the case of absence from a final examination. Extensions for the completion of assignments must be approved by the Department Head, or Dean in non-departmentalized Colleges, and may exceed thirty days only in unusual circumstances.



The student must apply to the instructor for such an extension and furnish satisfactory reasons for the deficiency. Deferred final examinations are granted as per College policy.

**In the interim, the instructor will submit a computed percentile grade for the course which factors in the incomplete course work as a zero, along with a grade comment of INF (Incomplete Failure) if a failing grade. In the case where the instructor has indicated in the course outline that failure to complete the required course work will result in failure in the course, and the student has a computed passing percentile grade, a final grade of 49% will be submitted along with a grade comment of INF (Incomplete Failure).**

If an extension is granted and the required assignment is submitted within the allotted time, or if a deferred examination is granted and written in the case of absence from the final examination, the instructor will submit a revised computed final percentage grade. The grade change will replace the previous grade and any grade comment of INF (Incomplete Failure) will be removed.

For provisions governing examinations and grading, students are referred to the University Council Regulations on Examinations section of the Calendar.

(2013/09 University of Saskatchewan Calendar/Academic Courses Policy)

### **Academic Honesty**

The University of Saskatchewan is committed to the highest standards of academic integrity and honesty. Students are expected to be familiar with these standards regarding academic honesty and to uphold the policies of the University in this respect. Students are particularly urged to familiarize themselves with the provisions of the Student Conduct & Appeals section of the University Secretary Website and avoid any behavior that could potentially result in suspicions of cheating, plagiarism, misrepresentation of facts and/or participation in an offence. Academic dishonesty is a serious offence and can result in suspension or expulsion from the University.

All students should read and be familiar with the Regulations on Academic Student Misconduct ([http://www.usask.ca/university\\_secretary/honesty/StudentAcademicMisconduct.pdf](http://www.usask.ca/university_secretary/honesty/StudentAcademicMisconduct.pdf)) as well as the Standard of Student Conduct in Non-Academic Matters and Procedures for Resolution of Complaints and Appeals ([http://www.usask.ca/university\\_secretary/honesty/StudentNon-AcademicMisconduct2012.pdf](http://www.usask.ca/university_secretary/honesty/StudentNon-AcademicMisconduct2012.pdf)) Academic honesty is also defined and described in the Department of Computer Science Statement on Academic Honesty (<http://www.cs.usask.ca/undergrad/honesty.php>).

For more information on what academic integrity means for students see the Student Conduct & Appeals section of the University Secretary Website at:

[http://www.usask.ca/university\\_secretary/pdf/dishonesty\\_info\\_sheet.pdf](http://www.usask.ca/university_secretary/pdf/dishonesty_info_sheet.pdf)

### **Examinations with Disability Services for Students (DSS)**

Students who have disabilities (learning, medical, physical, or mental health) are strongly encouraged to register with Disability Services for Students (DSS) if they have not already done so. Students who suspect they may have disabilities should contact DSS for advice and referrals. In order to access DSS programs and supports, students must follow DSS policy and procedures. For more information, check <http://www.students.usask.ca/disability/>, or contact DSS at 966-7273 or [dss@usask.ca](mailto:dss@usask.ca).

Students registered with DSS may request alternative arrangements for mid-term and final examinations. Students must arrange such accommodations through DSS by the stated deadlines. Instructors shall provide the examinations for students who are being accommodated by the deadlines established by DSS.