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| <b>Course Title: Design, Digital Technology and the Built Environment REVISED MARCH 16, 2020 FOR COVID-19</b> |                    |                  |                    |
| Course Number   | EVDS 402           |                  |                    |
| Pre/Co-Requisites   | None               |                  |                    |
| Instructor Name   | Dr. T.P. Keenan    | Instructor Email | keenan@ucalgary.ca |
| Office Location   | PFB 4184           |                  |                    |
| TA Name   | None               | TA Email         |                    |
| Class Dates   | Winter 2020        |                  |                    |
| Class Times   | Mondays, 1100-1350 |                  |                    |
| Class Location  |                    |                  |                    |

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| <b>Course Information / Description of the Course</b>   |
| An introduction to the fundamental principles underlying modern digital technology-based systems, from a design of the built environment perspective. Topics include The Attention Economy, Big Data, Surveillance Capitalism, Ambient Intelligence, the Internet of Things, Opaque and Transparent Algorithms, Biocreepiness, and Systems Thinking. No specific technical background is required. Participants will complete a design project on a topic of personal interest. |

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| <b>Learning Resources</b>  |
| <p>Required readings, textbooks and learning materials:<br/> <i>Technocreep: The Surrender of Privacy and the Capitalization of Intimacy</i>, by Thomas P. Keenan, 2014, Greystone Books. Available at the University of Calgary bookstore and online at Amazon.ca. Either the paperback or the e-book edition can be used.</p> <p>All other required readings will be provided on D2L, though students are encouraged to consult additional resources and to cite them. The use of references, where appropriate, is encouraged in this course, and will be considered in grading.<br/>         Access to the Internet, D2L and a device capable of playing videos is required.</p> |

## Course Learning Outcomes

1. To achieve an evidence-based, holistic understanding of the issues relevant to digital-technology based systems in the built environment.
2. To develop excellent writing and presentation skills.
3. To understand how an interdisciplinary approach can be used to solve complex problems.
4. To apply “design thinking” to help form a personal vision of what life will be like in the future with respect to creepiness.
5. To become familiar with the various career paths and educational options relevant to the topics covered in the course.

## Assessment Components

| Assessment Method   | Description  | Weight | Aligned Course Learning Outcome |
|---|--|--------|---------------------------------|
| “My Creepy Future World” presentation   | Via Zoom: as scheduled   | 20%    | All                             |
| “My Creepy Future World” research paper with references (APA format) -- 10-15 pages double spaced | Due April 13, 2020   | 30%    | All                             |
| Class participation   | In class presentations, (four highest marks); class discussions; also includes participation in online discussion boards | 50%    | All                             |

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| <p><b>Assessment and Evaluation Information</b></p>   |  |  |  |
| <p>Attendance and Participation Expectations: <b>Students are expected to read all the materials posted, participate actively both in class and in online discussions, and complete assignments on a timely basis.</b></p> <p>Guidelines for Submitting Assignments: <b>To be submitted electronically via D2L in appropriate dropbox.</b></p> <p>Final Examinations: <b>None</b></p> <p>Expectations for Writing (<a href="https://www.ucalgary.ca/pubs/calendar/current/e-2.html">https://www.ucalgary.ca/pubs/calendar/current/e-2.html</a>):</p> <p>Late Assignments: <b>Will be accepted until the “Final Deadline” (see schedule) with a possible deduction for lateness.</b></p> <p>Criteria that must be met to pass: (e.g. whether or not a passing grade on any particular component of a course is essential if the student is to pass the course as a whole)</p> <p><b>It is not necessary to pass any specific component to pass the course.</b></p> <p><b>The final grade in this course will be based on assignments and participation in live and online class discussions.</b></p> <p><b>Late assignments will be accepted up until the Final Deadline of 2359, April 15, 2020, but may be penalized up to one full grade (e.g. A to B). Assignments not submitted by the final deadline will receive a grade of F.</b></p> <p><b>Class participation will be evaluated based on the quality and quantity of live and online D2L discussion, which should build upon the topics presented in that week. Posting of relevant resources that may be helpful to the other</b></p> |  |  |  |

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| <p><b>students in the class is particularly encouraged. To obtain full marks in the participation component, students should make at least one timely, thoughtful, relevant, interesting and non-trivial posting each week.</b></p> <p><b>Writing quality (clarity, spelling, grammar, etc.) will form part of the basis for assignment and discussion evaluation.</b></p> |  |  |  |
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**Grading Scale. PLEASE NOTE: This is the current official grading scale and interpretation of grades of the School of Architecture, Planning and Landscape. It may differ from the grading scale of the faculty in which you are registered.**

In particular, it is significantly different from the Undergraduate Grading System chart in the University of Calgary Calendar <http://www.ucalgary.ca/pubs/calendar/current/f-1-1.html>

This is because (as noted in the Calendar) “University policy requires that students’ grades in a course are reported according to the grading scheme of the faculty or school giving the course (regardless of the faculty or school in which a student is registered) and are so recorded on students’ transcripts of record.”

| Grade | Grade Point Value | 4-Point Range | Percent  | Description  |
|-------|-------------------|---------------|----------|--|
| A+    | 4.00              | 4.00          | 95-100   | Outstanding - evaluated by instructor  |
| A     | 4.00              | 3.85-4.00     | 90-94.99 | Excellent - superior performance showing comprehensive understanding of the subject matter             |
| A-    | 3.70              | 3.50-3.84     | 85-89.99 | Very good performance  |
| B+    | 3.30              | 3.15-3.49     | 80-84.99 | Good performance   |
| B     | 3.00              | 2.85-3.14     | 75-79.99 | Satisfactory performance   |
| B-    | 2.70              | 2.50-2.84     | 70-74.99 | Minimum pass for students in the Faculty of Graduate Studies   |
| C+    | 2.30              | 2.15-2.49     | 65-69.99 | All final grades below B- are indicative of failure at the graduate level and cannot be counted toward |

|    |      |           |          |  |
|----|------|-----------|----------|--|
|    |      |           |          | Faculty of Graduate Studies course requirements. |
| C  | 2.00 | 1.85-2.14 | 60-64.99 |  |
| C- | 1.70 | 1.50-1.84 | 55-59.99 |  |
| D+ | 1.30 | 1.15-1.49 | 50-54.99 |  |
| D  | 1.00 | 0.50-1.14 | 45-49.99 |  |
| F  | 0.00 | 0-0.49    | 0-44.99  |  |

For students registered in the Faculty of Graduate Studies ONLY: A student who receives a "C+" or lower in any one course will be required to withdraw regardless of their grade point average (GPA) unless the program recommends otherwise. If the program permits the student to retake a failed course, the second grade will replace the initial grade in the calculation of the GPA, and both grades will appear on the transcript.

## Media and Recording in Learning Environments

### Part 1

University Calendar: <https://www.ucalgary.ca/pubs/calendar/current/e-6.html>

Recording of lectures (other than audio recordings that are pre-arranged as part of an authorized accommodation) is not permitted.

Students may not record any portion of a lecture, class discussion or course-related learning activity without the prior and explicit written permission of the course instructor or authorization from Student Accessibility Services. For any other use, whether by duplication, transcription, publication, sale or transfer of recordings, written approval must be obtained from the instructor for the specific use proposed. Any use other than that described above constitutes academic misconduct and may result in suspension or expulsion.

### Part 2

The instructor may use media recordings to capture the delivery of a lecture.

The instructor will notify all students and guests in the class that the event is being recorded. If a student or guest wants to take steps to protect privacy, and does not want to be recorded, the instructor will provide the individual (s) with an alternative means of participating and asking questions (e.g., passing written notes with questions). Students cannot be penalized for choosing not to be recorded in situations where participation is part of the course. Students must be offered other ways of earning participation credit that do not involve recording.

Any video-recording would be intended to only capture the instructor and the front of the classroom. Students/other participants would not necessarily be visible on video recordings.

| Topic Areas & Detailed Class Schedule  |            |   |  |
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| Course Schedule Date<br>(material released)  |            | Topic (subject to change)   | Assignments/Due Dates  |
| Jan. 13, 2020  | Week 1     | Intro to Course and definition of Technocreep and other key terms including “Design Thinking”, “Creep Theory” “Attention Economy” and “Surveillance Capitalism” | Mini-presentations (highest four will be counted as part of class participation) |
| Jan. 20, 2020  | Week 2     | Camera Creep  | Mini-presentations   |
| Jan. 27, 2020  | Week 3     | Sensor and IoT Creep  | Mini-presentations   |
| Feb. 3, 2020   | Week 4     | Robot Creep   | Mini-presentations   |
| Feb. 10, 2020  | Week 5     | Government Creep/Big Data   | Mini-presentations   |
| Feb. 16-22,2020  | Term Break | No Class  | Mini-presentations   |
| Feb. 24, 2020  | Week 6     | Biocreep  | Mini-presentations   |
| Mar. 2, 2020   | Week 7     | Surveillance Capitalism   | Mini-presentations   |
| Mar. 9, 2020   | Week 8     | Algorithm and Artificial Intelligence Creep   | Mini-presentations   |
| Mar. 16, 2020<br>CANCELLED PER UNIVERSITY DECISION   | Week 9     | Future Creep  | Mini-presentations   |
| Mar. 23, 2020  | Week 10    | Anti-Creep; Major presentations start VIA ZOOM  |  |
| Mar. 30, 2020  | Week 11    | Major Presentations ,etc. VIA ZOOM  | Presentations as scheduled   |
| Apr. 6, 2020   | Week 12    | Major Presentations, etc.   | Presentations as scheduled   |
| April 13,2020  | Week 13    | Easter Monday, non-instructional day VIA ZOOM   | All presentation slides and written papers due in dropbox @2359, April 13, 2020  |
| Apr. 15, 2020 @2359  |            | Final deadline  | Last opportunity to submit assignments and post in discussion boards.            |
| <p>Indicate the following dates:</p> <ul style="list-style-type: none"> <li>• If applicable, dates, times and locations of all approved class activities scheduled outside of regular course hours</li> <li>• If applicable, dates, times, locations and referral to the student centre for unique and binding drop/withdraw deadlines for courses that have been approved to run outside of regular term dates</li> </ul> |            |   |  |

## Special Budgetary Requirements

None.

## University of Calgary Policies and Supports

### **ACADEMIC ACCOMMODATION**

Students seeking an accommodation based on disability or medical concerns should contact Student Accessibility Services; SAS will process the request and issue letters of accommodation to instructors. For additional information on support services and accommodations for students with disabilities, visit [www.ucalgary.ca/access/](http://www.ucalgary.ca/access/). Students who require an accommodation in relation to their coursework based on a protected ground other than disability should communicate this need in writing to their Instructor. The full policy on Student Accommodations is available at <http://www.ucalgary.ca/policies/files/policies/student-accommodation-policy.pdf>.

### **ACADEMIC MISCONDUCT**

Plagiarism involves submitting or presenting work in a course as if it were the student's own work done expressly for that particular course when, in fact, it is not. Most commonly plagiarism exists when: (a) the work submitted or presented was done, in whole or in part, by an individual other than the one submitting or presenting the work, (b) parts of the work are taken from another source without reference to the original author, (c) the whole work (e.g., an essay) is copied from another source, and/or, (d) a student submits or presents work in one course which has also been submitted in another course (although it may be completely original with that student) without the knowledge of or prior agreement of the instructor involved. While it is recognized that scholarly work often involves reference to the ideas, data and conclusions of other scholars, intellectual honesty requires that such references be explicitly and clearly noted. Plagiarism is an extremely serious academic offence. Any suspicion of plagiarism will be reported to the Dean, and dealt with as per the regulations in the University of Calgary Graduate Calendar.

For information on academic misconduct and its consequences, please see the University of Calgary Calendar at <http://www.ucalgary.ca/pubs/calendar/current/k.html>

### **COPYRIGHT LEGISLATION:**

All students are required to read the University of Calgary policy on Acceptable Use of Material Protected by Copyright ([www.ucalgary.ca/policies/files/policies/acceptable-use-of-material-protected-by-copyright.pdf](http://www.ucalgary.ca/policies/files/policies/acceptable-use-of-material-protected-by-copyright.pdf)) and requirements of the copyright act (<https://laws-lois.justice.gc.ca/eng/acts/C-42/index.html>) to ensure they are aware of the consequences of unauthorised sharing of course materials (including instructor notes, electronic versions of textbooks etc.). Students who use material protected by copyright in violation of this policy may be disciplined under the Non-Academic Misconduct Policy.

### **FREEDOM OF INFORMATION AND PROTECTION OF PRIVACY**

Student information will be collected in accordance with typical (or usual) classroom practice. Students' assignments will be accessible only by the authorized course faculty. Private information related to the individual student is treated with the utmost regard by the faculty at the University of Calgary.

**UNIVERSITY STUDENT APPEALS OFFICE:** If a student has a concern about the course, academic matter, or a grade that they have been assigned, they must first communicate this concern with the instructor. If the concern cannot be resolved with the instructor, the student can proceed with an academic appeal, which normally begins with the Faculty.

<https://ucalgary.ca/student-appeals/>

**More student support and resources (e.g. safety and wellness) can be found here:**

<https://www.ucalgary.ca/registrar/registration/course-outlines>