UNIVERSITY OF CALGARY
SCHOOL OF ARCHITECTURE,
PLANNING AND LANDSCAPE

Course Number	ARCH 402	Classroom	▉
Course Name	**Design, Digital Technology and the Built Environment**		
Pre/Co-Requisites	None		
Instructor	**Dr. T.P. Keenan**	**Office Hours/Location**	Office hours by appointment
	Email: keenan@ucalgary.ca	**Phone:** 403 220-7437	
Class Dates	January 8 – April 9, 2024 Mondays, 1100-1345		
Instructor Email Policy	Please note that all course communications must occur through your @ucalgary email. We will respond to emails sent via student's @ucalgary emails within 48 hours.		
Name and Email of Teaching Assistant(s)	Jiayi Wang jiayi.wang1@ucalgary.ca		

Course Description

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.

GFC Hours: 3 units; (3-0)   **Requisites:** There are no pre- or co-requisites.

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 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.

Special Budgetary Requirements

None

Learning Resources

Required readings, textbooks, and learning materials:

Required textbook:

Technocreep: The Surrender of Privacy and the Capitalization of Intimacy, by Thomas P. Keenan, 2014, Greystone Books (Vancouver) and OR Books (NYC). Available at the University of Calgary bookstore and online at Amazon.ca.
https://www.amazon.ca/Technocreep-Surrender-Privacy-Capitalization-Intimacy/dp/1771641223/ref=tmm_pap_swatch_0

Either the paperback, audiobook, or e-book edition can be used.

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.

Access to the Internet, D2L, and a device capable of playing videos are required.

Technology requirements:

In order to successfully engage in their learning experiences at the University of Calgary, students taking online, remote and blended courses are required to have reliable access to the following technology:

- A computer with a supported operating system, as well as the latest security, and malware updates;
- A current and updated web browser;
- Webcam (built-in or external);
- Microphone and speaker (built-in or external), or headset with microphone;
- Current antivirus and/or firewall software enabled;
- Broadband internet connection
- Most current laptops will have a built-in webcam, speaker and microphone.
- Student IT Resources

Assessment Components

Assessment Method	Description	Weight	Aligned Course Learning Outcome
"My Creepy Future World" major presentation. Aim for 10-minute presentation plus 5 minutes of Q&A/discussion (Individual or group of up to 3)	As scheduled in class. Final slides due in dropbox by Final Deadline	20%	All
"My Creepy Future World" group research paper with references (APA 7 format) -- 10-15 pages, double spaced	Due by Final Deadline	30%	All
Class participation **Hard copy of the presentation to be submitted to dropbox by 2359 on the day of the in-class presentation.** If a group presentation, only one member needs to submit, but please ensure that all group member names and UCID numbers are in the Dropbox comment field.	In-class group presentations (four highest marks for 10% each)	40%	All
Each class week (by 2359 on Friday), each student should make an *individual* posting of at least 200 words to the appropriate discussion board. This can either be a "this is what I learned that I felt was important" or "this is an additional resource/story/idea that relates to this week's concept." Provide reference if appropriate (links are acceptable). The TA will engage in discussion with you on these boards and propose a grade for that component.	Participation in class discussions and online discussion boards (10% total)	10%	All

Assessment and Evaluation Information

Attendance and Participation Expectations: Students are expected to attend the weekly mandatory classes, read all the materials assigned in the textbook and otherwise made available, participate actively in both class and online discussions, and complete assignments on a timely basis.

Guidelines for Submitting Assignments: To be submitted electronically via D2L in the appropriate dropbox.

Final Examination: None

Expectations for Writing (https://www.ucalgary.ca/pubs/calendar/current/e-2.html):

Late Assignments: Late assignments will be accepted up until the Final Deadline 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 zero.

Criteria that must be met to pass:
It is not necessary to pass any specific component to pass the course.

The final grade in this course will be based on assignments and participation in class discussions.

Class participation will be evaluated based on the quality of group presentations and individual discussion posts, with the four highest marks counted towards that component.

Writing quality (clarity, spelling, grammar, etc.) will form part of the basis for evaluation.

Flexible Grade Option (CG Grade):

As per Section 3.5.1 of the Academic Calendar, the School of Architecture, Planning and Landscape will not permit the Flexible Grade Option (CG Grade) for any course offered by the School.

Grading Scale:

Based on Section F.1.1 of the Academic Calendar

Grade	Grade Point Value	4-Point Range	Percent	Description
A+	4.00	4.00	95-100	Outstanding performance
A	4.00	3.85-4.00	90-94.99	Excellent performance
A-	3.70	3.50-3.84	85-89.99	Approaching excellent performance
B+	3.30	3.15-3.49	80-84.99	Exceeding good performance
B	3.00	2.85-3.14	75-79.99	Good performance
B-	2.70	2.50-2.84	70-74.99	Approaching good performance
C+	2.30	2.15-2.49	65-69.99	Exceeding satisfactory performance
C	2.00	1.85-2.14	60-64.99	Satisfactory performance
C-	1.70	1.50-1.84	55-59.99	Approaching satisfactory performance. **Minimum grade requirement for prerequisite courses.**
D+	1.30	1.15-1.49	50-54.99	Marginal pass. Insufficient preparation for subsequent courses in the same subject.
D	1.00	0.50-1.14	45-49.99	Minimal Pass. Insufficient preparation for subsequent courses in the same subject.
F	0.00	0-0.49	0-44.99	Failure. Did not meet course requirements.

Topic Areas & Detailed Class Schedule

Include information relevant to the class schedule, such as weekly topics, readings, and assignment

Course Schedule Date	Topics (subject to change)	Assignments/Due Dates
January 8, 2024	First day of classes	
January 8, 2024	Intro to course and definition of Technocreep and other key terms, including "Design Thinking," "Creep Theory" "Attention Economy" and "Surveillance Capitalism."	Mini-presentations (the highest four will be counted as part of class participation) Details provided in class
January 15, 2024	Camera/Surveillance Creep	Mini-presentations
January 22, 2024	Deception Creep, Lies, Manipulation, Image Fakery	Mini-presentations
January 29, 2024	Sensor and IoT Creep	Mini-presentations
February 5, 2024	Robot and Physible Creep	Mini-presentations
February 12, 2024	Biocreep	Mini-presentations
February 18-24, 2024	Term Break	No classes
Monday, February 19, 2024	Alberta Family Day Holiday	No class – University closed
February 26, 2024	Algorithm and Artificial Intelligence Creep	Mini-presentations
March 4, 2024	Child and Pet Creep	Mini-presentations
March 11, 2024	Government Creep/Big Data	Mini-presentations
March 18, 2024	Future Creep, Anti-Creep	Mini-presentations
March 25, 2024	Major presentations as scheduled	Everyone's major presentation slides (amended to incorporate comments received) and written papers are due in dropbox @2359, April 10, 2024
April 1, 2024	Easter Monday	No class – University closed
April 8, 2024	Major presentations via Zoom as scheduled	Everyone's major presentation slides (amended to incorporate comments received) and written papers are due in dropbox @2359, April 10, 2024
April 9, 2024	Last Day of Classes	
April 10, 2024	Final Deadline	Last day for submissions

University of Calgary Policies and Supports:

UNIVERSITY OF CALGARY COVID-19 UPDATES AND PROCEDURES
https://www.ucalgary.ca/risk/emergency-management/covid-19-response/covidsafe-campus

ACADEMIC ACCOMMODATION
https://ucalgary.ca/student-services/access/prospective-students/academic-accommodations

It is the student's responsibility to request academic accommodations according to the University policies and procedures listed below. The student accommodation policy can be found at: https://www.ucalgary.ca/legal-services/university-policies-procedures/student-accommodation-policy

Students needing an accommodation because of a disability or medical condition should communicate this need to Student Accessibility Services in accordance with the Procedure for Accommodations for Students with Disabilities: https://www.ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Accommodation-for-Students-with-Disabilities-Procedure.pdf

Students needing an accommodation in relation to their coursework or to fulfil requirements for a graduate degree, based on a Protected Ground other than Disability, should communicate this need, preferably in writing, to their instructor (contact information on first page above).

Student Accessibility Services 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/.

ACADEMIC MISCONDUCT
Academic Misconduct refers to student behavior which compromises proper assessment of a student's academic activities and includes: cheating; fabrication; falsification; plagiarism; unauthorized assistance; failure to comply with an instructor's expectations regarding conduct required of students completing academic assessments in their courses; and failure to comply with exam regulations applied by the Registrar.
For information on the Student Academic Misconduct Policy and Procedures please visit:
- Student Academic Misconduct Policy: https://www.ucalgary.ca/legal-services/university-policies-procedures/student-academic-misconduct-policy
- Student Academic Misconduct Procedure: https://www.ucalgary.ca/legal-services/university-policies-procedures/student-academic-misconduct-procedure
Additional information is available on the Academic Integrity Website at https://www.ucalgary.ca/student-services/student-success/learning/academic-integrity.

COPYRIGHT LEGISLATION
All students are required to read the University of Calgary policy on Acceptable Use of Material Protected by Copyright (https://www.ucalgary.ca/legal-services/university-policies-procedures/acceptable-use-material-protected-copyright-policy) 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 (https://www.ucalgary.ca/pubs/calendar/current/k.html).

INSTRUCTOR INTELLECTUAL PROPERTY
Course materials created by instructors (including presentations and posted notes, labs, case studies, assignments and exams) remain the intellectual property of the instructor. These materials may NOT be reproduced, redistributed or copied without the explicit consent of the instructor. The posting of course materials to third party websites such as note-sharing sites without permission is prohibited. Sharing of extracts of these course materials with other students enrolled in the course at the same time may be allowed under fair dealing.

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.

SEXUAL AND GENDER-BASED VIOLENCE POLICY
The University recognizes that all members of the University Community should be able to learn, work, teach and live in an environment where they are free from harassment, discrimination, and violence. The University of Calgary's Sexual and Gender-Based Violence Policy guides us in how we respond to incidents of sexual and/or gender-based violence, including supports available to those who have experienced or witnessed sexual/gender-based violence, or those who are alleged to have committed sexual/gender-based violence. It provides clear response procedures and timelines, defines complex concepts, and addresses incidents that occur off-campus in certain circumstances. Please see the policy available at https://www.ucalgary.ca/legal-services/university-policies-procedures/sexual-and-gender-based-violence-policy.

UNIVERSITY STUDENT APPEALS OFFICE
If a student has a concern about a grade that they have received, they should refer to Section I of the Undergraduate Calendar (https://www.ucalgary.ca/pubs/calendar/current/i-3.html) which describes how to have a grade reappraised.

OTHER IMPORTANT INFORMATION
Please visit the Registrar's website at https://www.ucalgary.ca/registrar/registration/course-outlines for additional important information on the following:
- Wellness and Mental Health Resources
- Student Success
- Student Ombuds Office
- Student Union (SU) Information
- Graduate Students' Association (GSA) Information
- Emergency Evacuation/Assembly Points
- Safewalk