

Course Delivery Format:	<i>In person</i>
Instructor: Office: Email: Office Hours: TA Name and Email:	<i>Dr. J. R. Parker</i> <i>AB 606</i> <i>jparker@ucalgary.ca</i> <i>Mon 1-2 PM Tue 1-2 PM or by request</i> None
Day(s), time(s) and location of class:	<i>Lecture 1: Mondays & Wednesdays 2:00 - 3:15</i> <i>Lab 1: Mondays & Wednesdays 3:15-4:30</i> <i>Venue: SS 018</i>
Course description:	An introduction to computers and programming within the context of artistic practice. Algorithms within the arts domain, and applications, including interactive and dynamic applications, across range of artistic practices including: images, audio, animation, multimedia, web, and installations. Students will develop in-class and take-home projects, as well as a final project of their own design. This course, at this time, uses the Processing language.
Prerequisites and/or co-requisites:	One half-course in Art or consent of the Department.
Course Objectives:	Upon successful completion of this course, students should: 1. Be able to write basic programs in Processing; 2. Understand the ideas behind generative art, and the use of algorithms in a creative process; 3. Be able to create artistic works using these paradigms in a specified language; 4. Be familiar with basic techniques in visualization using a computer; 5. Understand basic strategies for interaction design and their implementation; 6. Understand how to create and manipulate computer images. .
Required Textbooks of Readings:	All readings are suggested. There is no required text for this class. Parker, J.R. Generative Art: Algorithms as Artistic Tool, Durville Publications Reas, C. and McWilliams, C., LUST. FORM+CODE in Design, Art, and Architecture. Princeton Architectural Press, New York. 2010. Shiffman, D. Learning Processing - A beginner's guide to programming images, animation, and interaction. Morgan Kaufmann Burlington, MA. 2008. Parker, J. An introduction to Game Development Using Processing. Mercury Learning & Information, 2014. http://www.amazon.ca/Introduction-Game-Development-Using-Processing/dp/1937585409
Course Schedule:	1. Introduction. Tools, generative art 2. Processing. Geometry. 3. Computers. 4. Lines, drawing. Algorithms. IF

	<p>5. Loops. Drawing pixels. FOR. WHILE 6. Animation, motion. 7. Arrays. 8. Style. 2D Arrays. 9. Images. 10. Advanced pixels – particles, image processing 11. Three dimensions 12. Audio, video 13 Games</p> <p>Your projects You will have the whole semester to build a generative art piece. These will be shown to the class and assessed in the last week.</p>
--	--

Assignments & Evaluation

Assignment	Description	Due Date	Worth
<i>Assignment 1</i>	Mondrean (Create art in the style of Piet Mondrean)	Oct 1	8%
<i>Assignment 2</i>	Paint (Build a simple paint program)	Oct 22	8%
<i>Assignment 3</i>	Animation (Procedural animation of an object)	Nov 15	9%
<i>Assignment 4</i>	Game (a playable computer game with sound)	Dec 1	10%
<i>In-Class assignments</i>	Based on the class material that week.	-	35%
<i>Generative art project</i>	Student choice	Dec 8	30%

Assessment expectations:	<p><u>Guidelines for Submitting Assignments:</u> <i>Assignments will be submitted Email</i></p> <p><u>Missed or Late Assignments:</u> Some assignments may be resubmitted. Late assignments can be accepted if prior arrangements are made.</p> <p><u>Expectations for Writing:</u> Writing skills are important to academic study across all disciplines. Any written work needs to meet English grammatical rules and reasonable standards for composition.</p>
Additional Costs and Information:	<i>A laptop would be useful.</i>
Portfolios and Assignments:	The Dept of Art and Art History will not assume responsibility for lost or stolen portfolios or course work given to instructors for grading.

Other Important Dates

Last day to drop course without financial penalty	Thursday, September 16
End of refund period	Thursday, September 16
Last day to add/swap course	Friday, September 17
Tuition and fee payment deadline	Friday, September 24
Last day to withdraw from course	Thursday, December 9

Grading Method and Grading Scale

Percentage	Grade	G.P.V.	Grade Definition
96-100	A+	4.0	Outstanding
90-95	A	4.0	Excellent-superior performance, showing comprehensive understanding of subject matter.
85-89	A-	3.7	
80-84	B+	3.3	
75-79	B	3.0	Good – clearly above average performance with knowledge of subject matter generally complete.
70-74	B-	2.7	
65-69	C+	2.3	
60-64	C	2.0	Satisfactory – basic understanding of the subject matter.
55-59	C-	1.7	
53-54	D+	1.3	
50-52	D	1.0	Minimal pass – marginal performance; generally insufficient preparation for subsequent courses in the same subject.
0-49	F	0	Fail – unsatisfactory performance or failure to meet course requirements.

<p>Learning Technologies and Requirements:</p>	<p>There is a D2L site for this course which contains required readings and other relevant class resources and materials (d2L.ucalgary.ca).</p> <p>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:</p> <ul style="list-style-type: none"> • 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
<p>Campus Mental Health Resources:</p>	<p>SU Wellness Centre and the Campus Mental Health Strategy</p> <p>Counselling and mental health support services are offered through Student Wellness Services. During COVID-19, you can access counselling services remotely via Skype for Business, Microsoft Teams and telephone. Single Session Counselling appointments are available on a bookable basis. Book an appointment online or call 403-210-9355. For access to mental health support, email sar@ucalgary.ca. If you are a student in immediate distress, please contact the centre's after-hours partners:</p> <p>The Distress Centre:</p> <ul style="list-style-type: none"> • Call 403-266-4357, available 24/7. • Visit the Distress Centre website to access online chat from 3–10 p.m. on weekdays and 12–10 p.m. on weekends.

	<p>For additional crisis support from Wood's Homes Community Support Team:</p> <ul style="list-style-type: none"> • Call 403-299-9699 or 1-800-563-6106, available 24/7. • Text 587-315-5000 between 9 a.m. and 10 p.m. • Visit Wood's Homes website for live chat between 9 a.m. - 10 p.m.
Academic Standing:	For more information go to http://www.ucalgary.ca/pubs/calendar/current/f.html
Academic Accommodation:	<p>It is the student's responsibility to request academic accommodations according to the University policies and procedures listed below. The Student Accommodations policy is available at https://ucalgary.ca/student-services/access/prospective-students/academic-accommodations.</p> <p>Students needing an accommodation based on disability or medical concerns should contact Student Accessibility Services (SAS) in accordance with the Procedure for Accommodations for Students with Disabilities (https://ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Accommodation-for-Students-with-Disabilities-Procedure.pdf). 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.</p> <p>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/</p>
Academic integrity, plagiarism:	<p>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.</p> <p>For more information go to http://www.ucalgary.ca/pubs/calendar/current/k.html or http://www.ucalgary.ca/pubs/calendar/current/e-2.html Additional information is available on the Academic Integrity Website at https://ucalgary.ca/student-services/student-success/learning/academic-integrity</p>
Internet and electronic communication device:	<p>The use of laptop and mobile devices is acceptable when used in a manner appropriate to the course and classroom activities. Please refrain from accessing websites and resources that may be distracting to you or for other learners during class time.</p> <p>Students are responsible for being aware of the University's Internet and email use policy, which can be found at https://ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Acceptable-Use-of-Electronic-Resources-and-Information-Policy.pdf</p>
Deferral of Term work and exams	<p>For more information about deferring a final exam go to https://www.ucalgary.ca/registrar/exams/deferred-exams</p> <p>For more information about deferral of term work go to http://www.ucalgary.ca/pubs/calendar/current/g-7.html https://www.ucalgary.ca/live-uc-ucalgary-site/sites/default/files/teams/14/deferred_termwork-feb-2020_revised.pdf</p>
Intellectual Property & Copyright:	All students are required to read the University of Calgary policy on Acceptable Use of Material Protected by Copyright (https://ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Acceptable-Use-of-Material-Protected-by-

	<p>Copyright-Policy.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 unauthorized sharing of course materials (including presentations, textbooks, posted notes, labs, case studies, assignments, and exams).</p> <p>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</p>
Freedom of Information and Protection of Privacy:	<p>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.</p> <p>For more information go to https://www.ucalgary.ca/registrar/student-centre/privacy-policy</p>
Ethics	<p>Whenever you perform research with human participants (i.e., surveys, interviews, or observation) as part of your university studies, you are responsible for following university research ethics guidelines. Your instructor must review and approve of your research plans and supervise your research.</p> <p>For more information go to http://www.ucalgary.ca/pubs/calendar/current/e-5.html or https://www.ucalgary.ca/research/researchers/ethics-compliance/chreb</p>
Additional Student Support:	<p>Please visit this link for important information on UCalgary's student wellness and safety resources: https://www.ucalgary.ca/registrar/registration/course-outlines</p>
Models:	N/A
Studio Procedures:	<p>Students will have to respect Covid-19 specific procedures pertaining to the lab location. These include circulation patterns, user policy, distancing and keeping the lab space clean and tidy.</p> <p>In addition, students and instructors are expected to follow physical distancing regulations to comply with the University's Covid-19 Re-Entry Protocols. For more information, please refer to the following website: https://ucalgary.ca/risk/sites/default/files/2020-05/UCalgary.COVID19.ReEntryProtocols.pdf</p>
Emergency Evacuation:	<p>For more information go to https://www.ucalgary.ca/risk/emergency-management/evac-drills-assembly-points/assembly-points</p>
Arts Students' Centre Program Advising	<p>Have a question but not sure where to start? The Arts Students' Centre is your information resource for everything in the Faculty of Arts. Call us at 403-220-3580 or email us at ascarts@ucalgary.ca.</p> <p>You can also visit the Faculty of Arts website at http://arts.ucalgary.ca/undergraduate which has detailed information on common academic concerns.</p>