

UNIVERSITY OF CALGARY  
DEPARTMENT OF ART

**UNDERGRADUATE COURSE OUTLINE**

**Art (ART) 315 L01  
Programming for Artists  
Fall 2018**

Lecture Tuesday/Thursday 12:30-1:45 AB 659  
Lab Tuesday/Thursday 2:00-3:15 AB 659

**Instructor:** J.R. Parker  
**Office Location:** AB 606  
**Office Phone:** 403-220-6784  
**E-Mail:** jparker@ucalgary.ca  
**Office Hours:** M at 11:00am and T at 11:30am or by appointment

**Course Description**

An introduction to computer programming techniques used to create interactive art projects.

**Prerequisite**

*3 units (0.5 full-course equivalent) in courses labelled Art.*

**Antirequisite**

*Credit for Art 315 and any of Computer Science 217, Computer Science 231, 235, Data Science 211 or Engineering 233 will not be allowed.*

**Objectives of the Course**

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.

**Textbooks and Readings**

All readings are suggested. There is no required text for this class.

Parker, J.R., 100 Cool Processing Sketches. E-Book, <https://leanpub.com/100coolprocessingsketches>  
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>

### Assignments and Evaluation

You will be expected to hand in the following:

1. **Four reading responses.** You will read a short article and write two pages about your personal response to it. Your opinion is expected, not an analysis of the literary or technical content.
2. **In-Lab assignments.** These are activities that we conduct in the scheduled laboratory time.
3. **Take home assignments.** These are programming assignments of a more significant nature than the lab assignments, and you will normally be given two or more weeks to complete them.
4. **Term Project.** This will be a generative art work of your own design and implementation. This is your opportunity to express your creativity using the tools learned in the class. Do not leave this until the last week.

All assignments can be found at: <http://www.minkhollow.ca/Art315/assignments/index.html>

Reading responses (weighted equally)	10%	Due: Oct 9, Nov 6, Nov 20, Dec 4
In-Lab assignments (weighted equally)	25%	Due the lab following completion
Take Home Assignments (weighted equally)	35%	Due: Oct 11, Oct 25, Nov 20, Dec 4
Term project – a Generative Art Piece	30%	Due: Dec 6 (in class presentation)

**Final projects will be presented to the class during the final lecture periods and are due by the final day of classes.**

### Writing

All assignments will be evaluated on content as well as form and writing.

It is not necessary for students to receive a passing grade on any particular component of the course in order to pass the course as a whole.

### Registrar-Scheduled Final Exam – NO

**Note: It is the student's responsibility to keep a copy of or any relevant documentation regarding each submitted assignment.**

### Late Assignment Policy

Late assignments will be deducted 5% a day, including weekends. Extensions will be given only in extreme circumstances and must be accompanied by supporting documentation.

### Additional Information

N.A.

### Course Activities

A schedule of lectures and downloadable material can be found at <http://www.minkhollow.ca/Art315/schedule.html>

### Grading Method/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
70-74	B-	2.7	
65-69	C+	2.3	
60-64	C	2.0	Satisfactory – basic understanding of the subject
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.

### Studio Procedures

The creation of art can be a dirty process and a studio is only workable if everyone cooperates in keeping it clean. Out of respect and consideration for your classmates and other users of the space, it is expected that everyone will participate in keeping the studio clean and tidy.

### Internet and Electronic Communication Device Information

Cell phones, messaging devices, and headphones MUST be turned off for the duration of the class.

Email: class time and office hours are the primary contact periods for instruction and questions. Email may be used for communicating unexpected absences, arranging appointments or general questions. The instructor will endeavor to answer emails within a reasonable period of time (1-3 days) but students should not rely on immediate responses. Course instruction does not occur via email.

### Academic Accommodations

The student accommodation policy can be found at [ucalgary.ca/access/accommodations/policy](http://ucalgary.ca/access/accommodations/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 [ucalgary.ca/policies/files/policies/student-accommodation-policy](http://ucalgary.ca/policies/files/policies/student-accommodation-policy).

Students needing an Accommodation based on a Protected Ground other than Disability, should communicate this need, preferably in writing, to the course instructor.

### Academic Standing

For more information go to <http://www.ucalgary.ca/pubs/calendar/current/f.html>

### Deferral of Exams/Term work

It is possible to request a deferral of term work or final examination(s) for reasons of illness, accident, family or domestic affliction, or religious obligations. Please check with Enrolment Services if any of these issues make it impossible for you to sit an exam or finish term work by stated deadlines.

For more information about deferring a final exam go to <https://www.ucalgary.ca/registrar/exams/deferred-exams>

For more information about deferral of term work go to <http://www.ucalgary.ca/pubs/calendar/current/g-7.html>  
[http://www.ucalgary.ca/registrar/files/registrar/deferred\\_termwork15.pdf](http://www.ucalgary.ca/registrar/files/registrar/deferred_termwork15.pdf)

### F.O.I.P.

For more information go to <https://www.ucalgary.ca/legalservices/foip>

## Writing/Plagiarism

Writing skills are not exclusive to English courses and, in fact, should cross all disciplines. The University supports the belief that throughout their University careers, students should be taught how to write well so that when they graduate their writing abilities will be far above the minimal standards required at entrance. Consistent with this belief, students are expected to do a substantial amount of writing in their University courses and, where appropriate, members of faculty can and should use writing and the grading thereof as a factor in the evaluation of student work. The services provided by the Writing Support Services can be utilized by all undergraduate and graduate students who feel they require further assistance.

For more information go to

<http://www.ucalgary.ca/ssc/writing-support>

or

<http://www.ucalgary.ca/pubs/calendar/current/e-2.html>

Using any source whatsoever without clearly documenting it is a serious academic offense. Consequences include failure on the assignment, failure in the course and possibly suspension or expulsion from the university. Visual art projects submitted for course credit must be produced by the student specifically for this class. Students must not submit projects if credit has or will be provided for it in another class. This includes re-worked assignments from previous or concurrent courses, unless permission is provided in writing by the instructor. Additionally, the student is asked to be mindful of using visual sources from the internet, ensuring that that material is not derived from any on-line or other available source, and that appropriate copyright permission is granted, when required.

## Lockers

The Art Building lockers are administered through the Student's Union's used bookstore, Bound and Copied. Lockers are rented on a first come, first served basis. Due to the shortage of lockers, and the high demand, students cannot hold more than one locker at a time. All of the details on renting a locker and your responsibilities can be found on the Locker Rental Agreement at

[https://www.su.ucalgary.ca/wp-content/uploads/2014/08/locker\\_rental\\_agreement\\_2010.pdf](https://www.su.ucalgary.ca/wp-content/uploads/2014/08/locker_rental_agreement_2010.pdf)

**Lockers for all sessions** can be rented through [my.ucalgary.ca](http://my.ucalgary.ca). Once you're in the Student Centre, click on **Other Academic Services** and choose **Locker Reservation**.

**Lockers must be vacated by the end of term.**

For more information go to <http://www.su.ucalgary.ca/>

## Models

In this class students may be expected to draw from nude models. **A student electing not to do so must notify the instructors IN WRITING of his/her concerns.**

## Portfolios and Assignments

The Department of Art will not assume responsibility for lost or stolen portfolios or course work given to instructors for grading, or for work posted on bulletin boards in the art building.

**Note - All unclaimed work will be disposed of.**

**Note - Studio spaces, bulletin boards and display areas need to be cleared 2 weeks after the last day of classes.**

## **Ethics**

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.

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>

## **Campus Mental Health Resources**

[SU Wellness Centre](#) and the [Campus Mental Health Strategy](#)

## **Campus Security/Safewalk**

Call 220-5333 anytime. Help phones are located throughout campus, parking lots and elevators; they connect directly to Campus Security - in case of emergency, press the red button.

For more information go to <http://www.ucalgary.ca/security/safewalk>

## **Emergency Evacuation**

For more information go to <http://www.ucalgary.ca/emergencyplan/assemblypoints>

## **Student Misconduct**

For more information go to <http://www.ucalgary.ca/pubs/calendar/current/k.html>

## **Student Ombudsman**

For more information go to <http://www.ucalgary.ca/provost/students/ombuds>

## **Student Union**

For more information go to <http://www.su.ucalgary.ca/>

## **Faculty of Arts Program Advising and Student Information Resources**

Have a question but not sure where to start? The Arts Students' Centre is your information resource for everything in the Faculty of Arts. Stop by SS102, call us at 220-3580 or email us at [ascarts@ucalgary.ca](mailto:ascarts@ucalgary.ca).

You can also visit the Faculty of Arts website at <http://arts.ucalgary.ca/undergraduate> which has detailed information on common academic concerns.

For program planning and advice, contact the Student Success Centre at 220-5881 or visit them on the 3rd floor of the Taylor Family Digital Library.

For registration (add/drop/swap), paying fees and assistance with your Student Centre, contact Enrolment Services at 210-ROCK [7625] or visit them at the MacKimmie Library Block.