

In this program you will be asked to complete a variety of different types of work that will be assessed as part of your evaluation. You should budget a minimum of forty hours a week for program work (including time spent in the classroom). At the end of the quarter you will submit a portfolio that will include work you've done in the activities listed below. Incomplete work will result in a loss of credit.

**Lecture**

Each week will begin with lectures that introduce or develop themes related to order in the universe and human creative responses to it. Workshops, labs and other program activities will also have lecture components to them. Most of the time, lectures will include screenings of animation, other media, slides, and/or demonstrations of various mathematical or artistic principles. You are expected to take careful and complete notes during these lectures. You should prepare a section of a three-ring binder to collect these notes.

**Seminar**

We will have seminars each Monday on assigned readings. You are expected to come to class with the text, having completed the reading and prepared for discussion. For each seminar bring a typed paragraph in which you present a theme or question that arose from the reading that you would like to share with the class. The paragraph, which is required for participation in seminar, will be collected at the end of class. You are expected to participate in the seminar discussion in several ways: through conversation, active listening, taking notes and, in later weeks, facilitation.

**Writing**

- **Seminar papers:** During the week following seminar you will write a seminar paper in which you synthesize and respond to some of the ideas from the text. Specific references to or quotations from passages in the text, citing page numbers, are essential. Your writing should be informed by the seminar discussion. All students will meet individually with writing tutors assigned to them on Tuesday or Wednesday to help improve drafts of the paper. Starting in week 5 you will meet in small groups to share your writing and make revisions based on feedback from your peers.
- **Extended Essay:** After mid-quarter, you will be asked to develop one of your papers into an extended essay that further develops and explores themes you find interesting.
- **Journal:** From time to time you will be asked to write an assessment of your own work or a response to ideas, experiences or material presented. You should prepare a separate section of a three-ring binder for this journal writing.

**Computer Lab**

Wednesday computer labs will involve various mixtures of artistic, creative and quantitative work. You will develop competence on both Mac and PC platforms. Labs will typically start with a half hour introduction to software, modelling idea or design problem, followed by a session in which you and a partner work through a lab handout or begin a specific creative assignment. In the case of quantitative work, at the end of each handout there will often be a short homework assignment that will be due at the start of the following week's lab. There will be no tests on Computer Lab work. Evaluation and credit will be based on your lab work and on the completion, effort and quality of your lab assignments.

**Art and Animation**

In the Tuesday afternoon Arts workshops you will learn a variety of techniques and approaches to the representation of natural and quantitative phenomena, with an eye toward both "objectivity", or "realism" and understanding human perceptual response and the creation of meaning. You will be

assigned a series of design problems that require you to use drawing, animation or audio techniques to respond to and express ideas and methods introduced in the program. Sometimes these assignments will be directly linked to a theme in math or physics, sometimes they will be drawn from the practice of artists whose works we discuss and sometimes they will be the result of applying tools we have at hand to phenomena we encounter. Many of these design problems will require you to work collaboratively with others in the program.

- **Sketchbook:** You will develop your sketchbook through three activities; a daily drawing assignment, the visual development of ideas for projects, and field work assigned as part of the Week 4 trip to the ocean. Sketchbooks will be assessed at the middle and the end of the quarter. Assignments done in your sketchbook will comprise a significant proportion of your Arts credits.
- **Production Design Problems:** You will need to take proficiencies to gain access to lab facilities and sign up for time in them to complete various computer and animation assignments begun in the workshops. As animation is a very labor-intensive discipline, you will also need to schedule enough time for yourself to complete assignments with integrity.
- **Notes:** You should take notes on films, videos or other works screened, including those of your peers, as well as ideas and information you glean from lectures, discussions and critiques.

### Mathematics

This portion of the program will be in a lecture/workshop format. We will not be following a particular textbook, but there will be occasional handouts from a variety of sources. We will use the following tools to assess your learning:

- **Workshops:** Each Tuesday you will break up into workshop groups to complete problems and worksheets. The work you do in groups during workshop activities will not be collected weekly for marking. However, this work will be assessed for effort and completeness at the end of each quarter. Therefore, *please complete all workshop questions* after class and arrange your worksheets in a separate component of a three ring binder as part of your portfolio.
- **Assignments:** Practice is an extremely important part of learning mathematics. There will be homework assignments each week. You should expect to spend roughly four hours per week per assignment. The homework will be assessed for completeness and effort and some questions will be corrected. After homework is returned to you please keep it in a separate section of a three ring binder as part of your portfolio.
- **Tests:** There will be two tests: a mid term and a final. There will be both in-class and take home portions to the tests. Missed in-class tests or late take-home tests will result in loss of credit unless prior arrangements have been made to complete the tests at an alternative time.

### Field Trip

During week 4, we will spend 3 days on the Olympic Coast to observe and document natural phenomena such as the tides, sunrise/sunset, patterns of beach formation and plant growth, and to collect data and material for use in assignments later on in the program. The field trip is required. Enrolled students will be assessed a \$65 fee to help pay for the trip. We will stay at La Push Ocean Park, and students will work together in small groups to complete assignments as well as prepare meals. If you have special needs, please notify us in advance so that we can help make this field trip accessible to you.

### Supplies:

3 ring binder divided into at least 4 sections  
scientific calculator  
compass & protractor set  
metal straight edge  
Sketchbook: spiral bound, at least 8" in both dimensions

2B, 4B, 6B pencils, sharpener  
magic rub eraser  
pentel sign pens  
watercolor brush  
dv tape, mini discs