The elective draws from patterns of geometry and proportion in nature, intuition, scientific philosophies and environmental sustainability to encourage a considered design process inspired by nature.

Each participant will investigate key principles of proportion & geometry to and apply these observations to a series of chosen aspects of nature ranging from the microscopic to the macroscopic. These findings will be collated with others participating in the elective to develop a series of design exercises.

From here an analytical approach will be developed and refined with the aid of tools including CAD packages like rhino with the grasshopper plugin to utilize key mathematical formulas including fractals, voroni, hyperbolic geometry, and others. This information will then be correlated with case studies of influential artists, designers and scientific philosophies (such as that found in Biomimicry, Quantum Holography (Bohm), Morphic Resonance (Sheldrake), Da Vinci and references from ancient civilizations).

Additionally the participant is encouraged to intuitively consider the design they are working with, in doing so this process attempts to engage in a design that has a sense of connection to the environment and provides insight into ecological sustainability.

These concepts will be applied to design projects as outlined in the project brief with aim to inspire a fluid understanding of nature and how it can be integrated within a design process.

**Tutor:**
Brad Marmion
Industrial Designer (MA)
Digital Scanning and Fabrication
SIAL

**When:**
Mondays from 5:30 to 8:30

**Locations:**
B8.12.36 (first 2 classes)
and SIAL PC Lab at B10.11.24