

## **2015 Summer Courses**

### **Modern Currents in the Humanities (Humanities 4)**

5 credits, IIT Equivalent: HUM 300-level

Prerequisites: Humanities 1, 2, and 3

In Humanities 4 you will learn to think theoretically about art, music, literature, philosophy, and theology. Focusing on works from the European Enlightenment period to the present, you will study significant works in the history of aesthetics and literary criticism. Readings include texts by Immanuel Kant, Friedrich Nietzsche, Igor Stravinsky, Ludwig Wittgenstein, Martin Buber, Søren Kierkegaard, Friedrich Schiller, Martin Heidegger, Susanne Langer, Michel Foucault, Susan Sontag, Helene Cixous, and Jacques Derrida.

### **Foundations of Mathematics and Logic (Integrative Studies 2)**

5 credits, IIT Equivalent: Evaluated on individual basis

Integrative Studies 2 features the study of the foundations of mathematics and logic. This course includes a variety of logical, mathematical, and geometrical systems, both ancient and modern, that demonstrate both the power and the limitations of mathematics. The course is designed to increase students' abilities to think logically and express themselves with precision. Readings include texts by Euclid, Aristotle, Descartes, Einstein, and Lobachevsky.

### **Laws and Models in Chemistry (Natural Sciences 1)**

5 credits, IIT Equivalent: Evaluated on individual basis

Natural Sciences 1 addresses the question, "What is the world made of?" The course begins with the study of the responses of Ancient Greek philosophers to that question, including Democritus' theory of atoms, and concludes with Curie's unnerving revelation that the "uncuttable" atom might be divisible into smaller pieces. The course focuses upon several key concepts, such as weight, structure, and complexity, in an attempt to understand the material basis of the world. Readings also include texts by Aristotle, Lucretius, Pascal, Bacon, Lavoisier, and Cannizzaro.

**The Nature of Light (Natural Sciences 3)**

5 credits, IIT Equivalent: Evaluated on individual basis

Prerequisites: Natural Sciences 1, Integrative Studies 2, and the Mathematics Examination

Natural Sciences 3 explores the nature of light. Students examine the development of the theories of falling bodies, gravitation, and electromagnetic forces in order to better understand optical phenomena. The investigation of physical theories includes exploration of such crucial scientific questions as these: What phenomena need to be explained? How are they explained? What constitutes a satisfactory explanation? Readings include texts by Galileo, Newton, Fresnel, Oersted, Faraday, Hertz, and Maxwell. Natural Sciences 3 is a Designated Writing Course.

**CHICAGO'S BLACK RENAISSANCE**

Humanities/Social Sciences, 5 Credits, IIT Equivalent: HUM 300-level

This course focuses on the literature, art and music of Chicago from the Great Depression to the 1960s, a period known generally as the "Black Renaissance." We will also examine the effects this flourishing of the arts in Chicago had larger social causes and effects, including a significant contribution to the consciousness that developed politically in the Civil Rights Movement of the early 1960s.