



## ILLINOIS TECH HAWK PREVIEW DAYS

# Classes You Can Attend

### THURSDAY, MARCH 30

#### **Biology 114 — Introduction to Human Biology**

5–6:15 p.m.

This course, designed for non-majors in biology, covers selected topics in biology of particular relevance to humans and to human health and disease. Topics include: introductory biochemistry and cell structure, organization, and regulation of body systems, human genetics, human development, biotechnology; introduction to human pathogens, human ecology, and human evolution.

#### **Chemical Engineering 202 — Material Energy Balances**

1:50–3:05 p.m.

Material and energy balances for engineering systems subjected to chemical and physical transformations and calculations on industrial processes.

#### **Chemistry 237 — Organic Chemistry I**

11:25 a.m.–12:40 p.m.

The constitution and properties of the selected classes of organic compounds with considerable attention to stereochemistry and reaction mechanisms. The laboratory work involves the preparation of simple organic compounds using basic synthetic techniques.

#### **Food Science 201 — Nutrition and Wellness**

5–6:15 p.m.

Introduction to the basic principles of nutrition and the relationship of the human diet to health. Overview of the nutrition profession, the biological uses of nutrients, and tools for dietary planning and assessment in various settings. Examination of specific issues such as weight management, sports nutrition, food safety, the diet-disease relationship, and global nutrition. Analysis of special nutritional requirements and needs during the life cycle.

#### **Humanities 200-01 and 200-02 —**

#### **Topics in Humanities: King Arthur in Pop Culture**

1:50–3:05 p.m. (section 1) or 3:15–4:30 p.m. (section 2)

Topics will introduce students to the humanities at IIT and provide intensive instruction in writing. In this class period they will be discussing T.H. White's *Sword in the Stone*, the basis for Disney's same movie.

#### **Humanities 200-03 —**

#### **Topics in Humanities: Civil Disobedience**

5–6:15 p.m.

Topics will introduce students to the humanities at IIT and to provide intensive instruction in writing through the theme of civil disobedience.

#### **Physics 123-01 and 123-02 —**

#### **General Physics I: Mechanics**

1:50–3:05 p.m. (section 1) or 3:15–4:30 p.m. (section 2)

The content of this course includes vectors and motion in one, two and three dimensions, Newton's Laws, particle dynamics, work and energy, conservation laws and collisions, rotational kinematics and dynamics, angular momentum and equilibrium of rigid bodies, gravitation and oscillations.

#### **Psychology 221 —**

#### **Introduction to Psychological Science**

1:50–3:05 p.m.

This course will: 1) introduce the field of psychological science; 2) explore the research methods psychologists use to answer questions; 3) use research and theory to introduce psychological processes in multiple fields; and 4) apply psychological theories to mass media.

## FRIDAY, MARCH 31

### **Biology 104 — Linux and Perl Programming**

1:50–4:30 p.m.

Introductory class on Linux and Perl programming geared toward students interested in Bioinformatics. Topics include Linux/UNIX operating systems, Bash and other command line shells, remote terminals, the basics of Perl programming, and examples of Perl programming for biological data. It is recommended that students attending this class have some background in Perl.

### **Math 122-01 and 122-02 — Introduction to Calculus**

8:35–9:50 a.m. (section 1) or 10–11:15 a.m. (section 2)

Basic concepts of calculus of a single variable, limits, derivatives, and integrals. This calculus course is designed for non-engineering and non-science majors.

### **Math 151 — Calculus I**

1:50–3:05 p.m.

A fundamental course for science and engineering, this course covers analytic geometry, functions and their graphs, limits and continuity, derivatives of algebraic, trigonometric and inverse trigonometric functions, applications of the derivative, and an introduction to integrals and their applications.

### **Math 152-01 and 152-02 — Calculus II**

10–11:15 a.m. (section 1) or  
11:25 a.m.–12:40 p.m. (section 2)

Transcendental functions and their calculus, integration techniques, applications of the integral, indeterminate forms and improper integrals, polar coordinates, numerical series and power series expansions.

### **Psychology 204 — Research Methods in Behavioral Sciences**

10–11:15 a.m.

Introduction to experimental, survey, and field study methodology, including: ethics, research design, collection, preparation, analysis of data, and writing research reports.

### **Social Science 220 — Global Chicago**

10 a.m.–12:40 p.m.

Through readings, lectures, and field trips to local neighborhoods, this course will look at the ways that Chicago has become a global city and what that means for local government, businesses, educators, and the non-profit sector. We will explore the extent to which Chicago has become and continues to be connected to the global economy, its history as a gateway to immigrants from all over the world, and how the local non-profit community is engaged in international development across the globe. In this class period, students will be presenting projects on various Chicago neighborhoods.



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