

Course selections (cont.)

EV 120 ASTRONOMY

A first course in astronomy designed to help the student gain an understanding of how astronomers study the subject and to appreciate the grandeur of the universe in which we live.

Lecture: 3 hours per week. 3 credits



PH 101 COLLEGE PHYSICS I

The algebra-based course covers kinematics, dynamics, energy, wave motion, fluid, heat and temperature, and kinetic theory of gases and sound.

Lecture: 3 hours per week. Lab: 3 hours per week. 4 credits



For more information e-mail us at
ewprograms@massbay.edu
or call

781-239-2702



Evening & Weekend Programming

Wellesley Hills Campus

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Wellesley Hills, MA 02481-5307

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Evening & Weekend Programming Fall 2012 Science on Sundays



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What is Science on Sundays?

In an effort to meet the needs of busy students, we are pleased to offer additional science courses on Sundays during our fall and spring semesters. These additional times give students the opportunity to take a science class that fits into their schedule earning credits for a degree, a certificate, or for enrichment purposes.

Who can enroll in Science on Sundays courses?

Current MassBay students whose schedules cannot accommodate an additional science class and/or lab.

Other college and university students that wish to take a course to transfer.

High school students as part of our dual enrollment program.

Home schoolers looking for a laboratory science course.

What are the dates and times of the courses?

Fall 2012– Classes begin on Sunday, September 9, 2012 and continue through Sunday, December 16, 2012. Classes begin at 12:00 noon and end at 5:30pm.

How do I register?

Current students can register online at www.massbay.edu

New/visiting students should register in person.

High school students or home schoolers can register through the Office of Admissions at 781-239-2500.

What is the tuition?

Resident		Non-Resident	
Tuition	\$ 24.00	Tuition	\$ 230.00
All College fee	130.00	All College fee	130.00
Technology fee	20.00	Technology fee	20.00
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Total per credit	\$174.00	Total per credit	\$ 380.00

Fees are subject to change.

Course selections

BI 101 GENERAL BIOLOGY I

Biological principles common to all organisms are examined. An in depth study of the cell is presented including the chemistry, structure and function of cell organelles, metabolism, photosynthesis, cell reproduction, Mendelian genetics, and patterns of inheritance, chromosomal inheritance, molecular genetics, DNA technology and protein synthesis.

Lecture: 3 hours per week. Lab: 2 hours per week. 4 credits

BI 115 ANATOMY AND PHYSIOLOGY I

Prerequisite: BI 101 or BI 110

Studies the structural and functional relationships of the human body systems, emphasizing concepts of the regulatory processes that integrate body cells, tissues, and organs. Topics include: organization of the body; cell structure and function; development of the tissues; the integumentary, skeletal, muscular, and nervous systems; and the senses. Students will perform selected laboratory exercises in correlation with the lecture material.

Lecture: 3 hours per week. Lab: 2 hours per week. 4 credits



BI 116 ANATOMY AND PHYSIOLOGY II

Prerequisite: BI 115.

Studies the structural and functional relationships and homeostatic mechanisms of various human systems in their normal physiological states. Topics include the endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems. Related laboratory experiments will be performed by the students.

Lecture: 3 hours per week. Lab: 2 hours per week. 4 credits

BI 123 FUNDAMENTALS OF MICROBIOLOGY

Prerequisite: BI 101 or BI 110.

Fundamentals of microbiology is the study of the microorganisms which cause human disease from both a scientific and medical perspective. Studied will be the concepts regarding a) molecular structure, physiology, metabolism, growth, and genetics of microorganisms – bacteria, viruses, protozoans, and fungi; b) mechanisms of infection, toxicity, and disease; c) the immune system; d) physical and chemical control of microorganisms; and the structure, function, and action of antimicrobial drugs and drug resistance.

Lecture: 3 hours per week. Lab: 3 hours per week. 4 credits



BI 141 HUMAN REPRODUCTIVE BIOLOGY

Study of fundamental knowledge of the anatomy and physiology of human reproduction, means of birth control, development of the fetus and basic genetics including human genetic diseases. Population, venereal disease and the evolution of sex discussed.

Lecture 3 hours per week. 3 credits

CH 101 COLLEGE CHEMISTRY I

Part one of a two-semester course on the facts and principles of chemistry at the introductory level, (no previous background in Chemistry is assumed). The course has a mandatory lab that complements the lecture. Basic math skills, including introductory algebra, are suggested for success in this course. Topics include lab safety; metric system and density; scientific method; classification of matter; basic atomic structure; nuclear chemistry; nomenclature; chemical equations; patterns of chemical reactions; mole concept; compound stoichiometry; acids, bases and salts; gas laws; solutions; concentration units; pH scale.

Lecture: 3 hours per week. Lab: 3 hours per week. 4 credits