

dimension in its search for meaning and value that seeks to transcend temporality and secularity of life, and reaches for the ultimate elevation of the human spirit. The course examines the various ways in which modern people's myriad endeavors in socio-cultural actions embark on a profound search for human reality, possibility, value and meaning in this globalized and networked world.

R.P. 1510 Virtuous Living in a Virtual World (3,2,1)

The advent of the Internet has produced a revolutionary set of possibilities for technologically sophisticated people, but simultaneously it has created new temptations and complicated traps which threaten wise and virtuous forms of life. After introducing a modern history of the emergence of the World Wide Web, students will be introduced to a vision of reality (including playfulness, serious life, and transformation) by which the multi-form nature and uses of the Internet can be discerned. Subsequently, several forms of ethical thinking and moral considerations will be introduced, so that students will be enabled to address and evaluate ethical problems found within cyberspace. Problems to be discussed will include cyber-utopianism, addictive practices leading to social alienation, telling lies within virtual contexts, deceitful tactics involving false identities, sexual ploys applied in cyberspace and their negative consequences, and various forms of cyber-bullying. It will be argued that actual caring communal relationships, virtuous familial ties and friendships assist persons in bringing balance, humility, humour, discernment and integrity to virtual relationships.

R.P. 1520 Biotechnology, Altering Nature, and Being Human (3,2,1)

This course integrates knowledge in molecular biology and philosophy (including the religious perspectives). New biotechnology is a key part of the biological revolution in the 21st century, which makes news headlines from time to time. It includes assisted reproduction, genetic therapy, genetic engineering, cloning, and stem cell manipulation. It can modify our food and our environment, alter ourselves and our offspring. It offers high hopes and arouses deep fears at the same time. This course is divided into three parts. Part I: Biology—understanding the molecular biology behind the latest biotechnological advances (e.g. molecular cloning, stem cell, the Human Genome Project, regenerative medicine). Part II: From Biology to Philosophy—understanding the notions of “nature”, “altering nature”, “improving nature”, and “unnatural” from both the biological and philosophical perspectives. Part III: Philosophical Anthropology—exploring how we can set the moral guidelines so that, via biotechnological intervention of nature, human beings will neither play god nor play slave of nature, but just being human. This course begins with basic literacy in molecular biology and ends with the philosophical puzzle, “what is humanity?”.

R.P. 2040 Philosophy of the Christian Religion (3,2,1)
基督教哲學

This course expresses the Christian faith in a philosophically comprehensible way. It starts with the Christian perception of reality and concept of knowledge, and then presents the Christian understanding of the knowledge of God and human existence. It further introduces the Christian notions of creation and redemption, and the significance of Jesus Christ in the unfolding of human history. The relevance of Christian faith for modern man will also be discussed.

本科目由一個整全的哲學進路來闡釋基督教信仰。它自基督教本體論及知識論開始，帶出基督教的上帝觀和人觀，進而介紹基督教的創造和救贖概念，以及耶穌基督在人類歷史上所展現的意義。本課程也會討論基督教信仰對現代人的關係。

R.P. 2100 Art and Aesthetics (3,2,1)
藝術與美學

This course begins by probing the nature of artistic phenomena and the relation of art to human development. This discussion will be followed by an introduction to representative aesthetic theories in the Chinese and Western contexts, illustrated by

appropriate masterpieces. The course will then identify the nature of different art media, including discussions of visual arts and performing arts. It will then outline the fundamentals of art appreciation and then discuss the relation among art, culture and society. Students will attend talk by invited artists, art exhibitions and performances.

本科目探究藝術現象的本質問題和藝術與人類發展的關係。課程內容包括：（一）介紹中國及西方中具代表性的藝術及美學理論，並以相關之藝術作品說明；（二）認識不同藝術媒體的性質，包括視覺藝術與表現藝術等；（三）實踐藝術欣賞，並討論藝術、文化和社會三者的關係。學生將出席藝術工作者的分享座談，並參觀藝術展覽及演出。

SCI 1620 You and Your Environment (3,3,0)

This course aims to introduce to non-major students the principles and issues in environmental sciences. The topics selected will demonstrate how environmental issues relate to our everyday life. By showing how environmental and resource problems are interrelated, students should be able to understand the concepts and principles in solving environmental and resource problems.

SCI 1710 Science in Today's Society (3,3,0)

This course examines the impacts of science and technology on the many facets of modern living. The various issues to be discussed include environmental issues, health issues, biotechnology and bioethical issues, proper use and abuse of statistics, nuclear energy and high-tech weaponry, impacts of a cyber world and risk-benefit analysis in science and technology.

SCI 2110 Systems and Control Theory (3,3,0)

Prerequisite: MATH 1120 Linear Algebra, MATH 1140 Computational Mathematics, MATH 1550 Calculus and Linear Algebra or MATH 1590 Calculus and Linear Algebra for Chemistry

Many problems in social science, economics, and engineering, can be modelled as linear systems. This course studies the properties of linear systems and how they can be controlled. Emphasis will be placed in understanding the important issues involved in the design and implementation of linear systems, in particular the stability analysis of feedback systems. Examples will be drawn from a wide range of fields.

SCI 2910 Logistics—Planning, Management, and Analysis (3,3,0)

This course introduces the fundamental modelling techniques and analysis for logistics problems. This course will address all major issues in logistics. The course will mainly concentrate on establishing the mathematical models for various logistics problems. The solution

techniques and algorithms will be also mentioned for the resulting mathematical problems. Numerous practical examples will be discussed and analysed to illustrate the modeling techniques for logistics problems. The students will learn through various examples illustrated in class to master the techniques in establishing the mathematical models for logistics problems. In addition, some computer packages will be also used to solve the resulting mathematical problems.

SCI 3110 Environmental Chemistry and Pollution Control (3,3,0)

Prerequisite: Year III standing (Environmental Studies Concentration)

This course describes the sources, transport, reactivity and sink of contaminants in the environment together with various technology options used for pollution control.

SCI 3120 Environmental Studies Laboratory (1,0,3)

Prerequisite: Year III standing (Environmental Studies Concentration)

These are practical sessions consisting of experiments utilizing the techniques commonly used in environmental studies. In addition to laboratory exercises, a field-based project will be