PHYS2080 Physics Seminar and Tutorial I

Course Outline- Fall 2024

1. Instructor(s)

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2. Teaching Assistant

LIU, Haiyang, Rm 4115C, 6679 6246, hliuec@connect.ust.hk

3. Meeting Time and Venue

Date/Time: Friday (12:30-13:20)

Venue: LTB

4. Course Description

Credit Points: 1

Pre-requisite: NIL

Exclusion: NIL

Brief Information/synopsis:

Appropriate seminars and small group tutorials are scheduled to expose students to a variety of issues in science and society, and to enhance students' communication with faculties and among themselves. Students are required to attend the seminars (given by invited speakers) and small group tutorials (supervised by a faculty member). For Physics students in their second year of study under the four-year degree only. Graded P or F.

5. Intended Learning Outcomes

Learning Goals

The objectives of this course are

I. to improve communications between students and faculty;

II. to help students understand the academic policies of the department and university;

III. to enhance students' abilities to speak and interact in a group;

IV. to expose students to a variety of issues in science and global society;

V. to give students practice in formulating a defensible ethical position; and

VI. to help students become self-sufficient in retrieving information for lifelong learning.

Learning Outcomes

By the end of this course, students should be able to

I. Express their opinions and concerns about their education to faculty members and their fellow students in both small and large group settings.
II. Give a brief oral presentation to stimulate their classmates' interest in their favorite scientific topic.
III. Participate in small group discussions on various topical issues.
IV. Treat others with respect and politeness, both as individuals and when in large groups.
V. Formulate and defend an ethical position on certain topics in science and global society, within the context of a case study on ethics.
VI. Summarize the key concepts needed for effective teamwork and time management.
VII. Search for and retrieve information on a variety of topics relevant to lifelong learning.
VIII. Uphold the basic principles of academic integrity, such as avoiding plagiarism and using citations to give proper credit for the work of others.

6. Assessment Scheme

P/F. The grading is based on students' attendance and oral presentation performance.

7. Teaching and Learning Activities

Scheduled activities: 1 hr (seminar OR tutorial)

8. Course Schedule

Sep-6: Meeting with Mentor

Sep-13: Welcome Lunch for New Physics Students

Sep-20: Presentation Skills Seminar, Speaker--Prof. Rolf Lortz, Department of Physics, HKUST

Sep-27: Career Story Sharing by Alumnus: The Path to be an Educator, Speaker--Ms. MAN Mei Sum, Lecturer, Department of Science and Environmental Studies, The Education University of Hong Kong

Oct-4: Library Session --- Effective Scientific Literature Search and Reference Management, Speaker: Mr. Lam Tak Hei, Librarian (Learning Support), HKUST Library

Oct-18: PLANCKS Dublin 2024 International Physics Competition Awardees Sharing, Speaker--FONG Ching

Oct-25: Career Story Sharing by Alumnus: Opportunities and career paths, Speaker--Mr. Raiymbek Kerimbek, Quantitative Trader, Virtu Financial

Nov-1: UG Forum

Nov-8: Summer Internship Sharing

Nov-15: Student Presentation

Nov-22: Student Presentation

Nov-29: Award Ceremony and Photo-Taking