

科號 Course Number: 10510PHYS592000
學分 Credit: 3 人數限制 Size of Limit: 15
中文名稱 Course Title: 科學家、學術生涯與學術倫理
英文名稱 Course English Title: Life as a Scientist and the Academic Career
任課教師 Instructor: 潘犀靈 Ci-Ling Pan

上課時間 Time: WaWbWc 上課教室 Room: 物 218

課程大綱:

一、課程說明(Course Description)

A number of students are interested in considering Academics as a career path. The ecosystem of today's academic world is getting more complex. This is a discussion-type course intended to let the participants aware of the payoffs and challenges of the academic career. Students are expected to make presentations and participate actively in the discussion. Distinguished scholars will be invited to share their views on the subject. The course material will be based primarily on the book, "Academic Duty" 學術這一行, by Donald Kennedy, former President of Stanford University. Other major references include "Advice for a Young Investigator," by Santiago Ramon Y. Cajol, etc. Ethic issues, which were hot news items lately, will also be covered.

指定用書(Text Books)

Donald Kennedy, Academic Duty, Harvard University Press, 1999 (學術這一行, 楊富亮譯, 天下遠見, 2000)

三、參考書籍(References)

1. Nicholas H. Steneck, "Introduction to the Responsible Conduct of Research," Office of Research Integrity, 2007. 研究倫理教學手冊, 台聯大系統, 信義榮譽講座編輯小組譯, 黃達夫醫學教育基金匯出版。The original can be downloaded from <https://ori.hhs.gov/sites/default/files/rcrintro.pdf>. The Chinese translation can be downloaded from <http://www.chi-tw.org/index.php?m=20>
2. Santiago Ramon y Cajal, Advice for a Young Investigator, Translated by Neely Swanson and Larry W. Swanson, MIT Press, 1999 (研究科學者的第一步 —給年輕探索者的建議, 程樹德譯, 究竟出版社, 2000) English version of the book is available as e-book from the library.
3. Joseph C. Hermanowicz, *The Stars are not Enough, Scientists – Their Passions and Professions*, University of Chicago Press, 1998.

4. Joseph C. Hermanowicz, *Lives in Sciences: How Institutions Affect Academic Careers*, University of Chicago Press, 2009.
5. Peter B. Meadawar, *Advice to a Young Scientist*, Basic Books, 1st Ed., 1981, available on the web.
6. Ernest L. Boyer, *Scholarship Reconsidered – Priorities of the Professoriate*, The Carnegie Foundation for the Advancement of Teaching, 1990, available on the web.
7. E. O. Wilson, *Letters to a Young Scientist*, Liverlight, 2013, (給青年科學家的信，王惟芬譯，台北市，聯經，2014)

四、教學方式(Teaching Method)

Extensive in-class discussion and guest lecturing.

五、教學進度(Syllabus)

1. Academic Freedom, Academic Duty
2. Preparing
3. To Teach
4. To Mentor
5. To Serve the University
6. To Discover
7. To Publish
8. To Reach Beyond the Walls
9. To Change

六、成績考核(Evaluation)

In-Class Participation: (35%)

Presentation and Discussion

Report: (65%)

Each student will hand in a report, which is an essay on his/her view on the academic career. A 15-minute presentation to the class is also required.