

2012 Fall PHYS535 “Introduction to Plasma Physics” (3 credits)

Instructor: Tsun-Hsu Chang

Textbook :

Dwight R. Nicholson, “Introduction to Plasma Theory” Chaps. 1, 2, 6, and 7.

It is supplemented by two Special Topics.

References :

Krall and Trivelpiece, "Principles of Plasma Physics".

Erwin Kreyszig, "Advanced Engineering Mathematics".

Conduct of Class :

Every Fridays 15:20 - 18:10, total 150 minutes, Physics building R501.

The course is offered in English, but physical concepts will be emphasized.

Students have to go through the algebra in the lecture notes before attending classes.

Questions are strongly encouraged.

Grading Policy : Midterm oral report 50%; Final oral report 50%; Attendance 10% (extra).

The overall score will be normalized to reflect an average consistent with other courses.

Schedule : See the table below.

Week	Date	Content
1	09/16	Introduction & Chap.1
2	09/23	Chap.1
3	09/30	Chap.1
4	10/07	Chap.2
5	10/14	Chap.2
6	10/21	Chap.6
7	10/28	Chap.6
8	11/04	Chap.6
9	11/11	Oral presentation
10	11/18	Chap.6
11	11/25	Chap.6
12	12/02	Chap.6
13	12/09	Chap.6
14	12/16	Special Topic I
15	12/23	Special Topic I
16	12/30	Special Topic II
17	01/06	Special Topic II
18	01/13	Oral presentation

* This table is for your reference only.

* The practical schedule will depend on the students' learning condition.