

❖ 2020F-PHYS_0175: Physics 2 (Electromagnetism)

Instructor : **Jeungphill Hanne**

❖ Outline

1. SCUPI 2020 Fall Academic Calendar

- Academic Calendar : Midterms & Final etc.
- My Schedule : Office hours etc.

2. Course Introduction

- Course information
 - Subject, Text book, Lecture Hour, Office hour, Course website, etc.
- Course Objective & Scope, Course Learning Key Points
- Course Grading & Tentative Course Schedule

1. SCUPI 2020 Fall Academic Calendar

- Academic Calendar : Midterms & Final etc.

SCUPI Academic Calendar for 2020-2021 Fall

	Sept.				Oct.				Nov.				Dec.				Jan.				Feb.						
Monday	7	14	21	28	5	12	19	26	2	9	16	23	30	7	14	21	28	4	11	18	25	2	9	16			
Tuesday	8	15	22	29	6	13	20	27	3	10	17	24	1	8	15	22	29	5	12	19	26	3	10	17			
Wednesday	9	16	23	30	7	14	21	28	4	11	18	25	2	9	16	23	30	6	13	20	27	4	11	18			
Thursday	10	17	24	1	8	15	22	29	5	12	19	26	3	10	17	24	31	7	14	21	28	5	12	19			
Friday	11	18	25	2	9	16	23	30	6	13	20	27	4	11	18	25	1	8	15	22	29	6	13	20			
Saturday	12	19	26	3	10	17	24	31	7	14	21	28	5	12	19	26	2	9	16	23	30	7	14	21			
Sunday	13	20	27	4	11	18	25	1	8	15	22	29	6	13	20	27	3	10	17	24	1	8	15	22			
SCU Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
SCU Term	2020 Fall Teaching Weeks																		Final Weeks		Winter Recess						

Notes:
 Registration:
 Make-up Exams: September 3 ~ 4
 Classes begin: September 7

1st Midterm

2nd Midterm

Final

This schedule is preliminary!!

1. SCUPI 2020 spring Academic Calendar

- My Schedule : Office hours (To be announced)

2020-2021 Fall Semester Course Schedule					
Class time	Monday	Tuesday	Wednesday	Thursday	Friday
08:15-09:00					
09:10-09:55					
10:15-11:00		Physics II 03 3-310	Physics II 02 3-310	Physics II 03 3-310	Physics II 02 3-310
11:10-11:55		Physics II 03 3-310	Physics II 02 3-310	Physics II 03 3-310	Physics II 02 3-310
Lunch Break					
13:50-14:35	Electric Circuit 01 3-310	Electric Circuit 02 3-310			
14:45-15:30	Electric Circuit 01 3-310	Electric Circuit 02 3-310			
15:40-16:25	Electric Circuit 01 3-310	Electric Circuit 02 3-310			
16:45-17:30					
17:40-18:25					

But, you can come to my office anytime when I am in my office ^^

2. Course Introduction

• Course information

• Physics for Science and Engineering 2

- Learn the basics of General Physics 2

→ Electromagnetism

: Fundamental to Engineering Research

• Text Book

- Principle of Physics by David Halliday ,
Robert Resnick & Jearl Walker,

10th edition.:ISBN-13: 978-1118230749s

• Lecture

- Instructor : Jeungphill Hanne, PhD

jeungphill.hanne@scupi.cn

- Time : Tues./Wed.(10:15-11:55),
and Thr./Fri. (10:15-11:55)

- Office Hour : To be announced

- Office : 3-321A @ Zone 3

• TA : Christopher King, Allen Sun, and Yuki Li

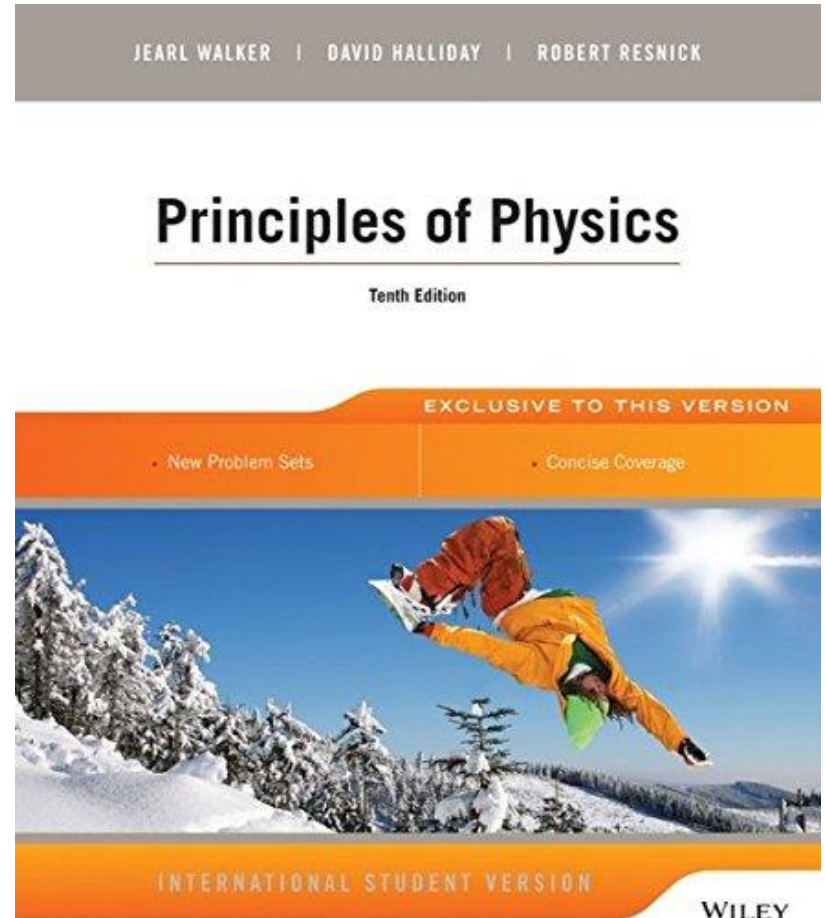
- Office Hrs : To be announced.

• Course Format

- Lecture, and Active Participation (i.e. Quiz, **Quiz Presentation**, etc.)

• Course Grading

- Two Midterms, Final, Homework, Quiz, and Attitude (ex. Attendance, Engagement, Punctuality for HW, etc.)



2. Course Introduction

• Course Scope & Objective

- Objective : Understanding the basics of “Electromagnetism”, Learning new Physical, or mathematical properties/theorem and eventually to be summarized to Maxwell’s eq.
- Scope : Electromagnetism(Electricity, Electrical Circuit, Magnetism, Induction, Electromagnetic Wave, Light, Geometrical/Wave Optics, etc.) → Connect to Maxwell’s equations
→ Required : **Some mathematical Background ! (Vector Calculus, 3D Integral, Diff. equ.)**

*All concepts/Theories will be summarized
to Maxwell’s Equation !*

• Course Grading

- Grading Components : HW(15%), Quiz (10%), Midterm I (23%), Midterm II (23%), Final (24%)
and Attitude(5% : Attendance, Engagement, Punctuality for HW, etc.)

Tests are not accumulative!

• Tentative Course Schedule

Week	Physics 2 (PHYS 0175)	Topics	Assignment
Week 1 (9/07-9/13)	Introduction&Chap21	Syllabus &Coulomb's Law	
Week 2 (9/14-9/20)	Chap21&Chap22	Electric Fields	HW1
Week 3 (9/21-9/27)	Chap22&Chap23	Gauss' Law	HW2
Week 4 (9/28-10/04)	Chap 23	Gauss' Law	HW3
Week 5 (10/05-10/11)	Chap 24	Electric Potential	
Week 6 (10/12-10/18)	Review & Mid Term 1		HW4
Week 7 (10/19-10/25)	Chap 25	Capacitance	HW5
Week 8 (10/26-11/01)	Chap 26	Current & Resistance	HW6
Week 9 (11/02-11/08)	Chap 27	Circuits	HW7
Week 10 (11/9-11/15)	Chap 28	Magnetic Fields	HW8
Week 11 (11/16-11/22)	Chap 29	Magnetic Fields due to Currents	
Week 12 (11/23-11/29)	Review & Mid Term 2		HW9
Week 13 (11/30-12/6)	Chap 30	Induction & Inductance	HW10
Week 14 (12/7-12/13)	Chap 32	Maxwell's Equation, Magnetism	HW11
Week 15 (12/14-12/20)	Chap 33	Electromagnetic Waves	HW12
Week 16 (12/21-12/27)	Chap 34	Images	HW13
Week 17 (12/28-1/04)	Chap 35/36	Interference/Diffraction	
Week 18 (1/05-1/11)	Review & Final week		