

# Electricity and Magnetism – PHY250

Prof R.S. Orr : MP801A ([orr@physics.utoronto.ca](mailto:orr@physics.utoronto.ca))

## Official Description

An introductory course in Electromagnetism. Topics include: Point charges; Coulomb's Law; electrostatic field and potential; Gauss' Law; conductors; electrostatic energy; magnetostatics, Ampere's Law, Biot-Savart Law, the Lorentz Force Law; Faraday's Law; Maxwell's equations in free space.

*Of course it omits the fact that about 25% the course is vectors, vector operators, line integrals, surface integrals, volume integrals etc.. etc.. etc.. Well ... you need to know that stuff!*

Look at “Course Homepage” for notes.

<https://hep.physics.utoronto.ca/~orr/wwwroot/phy250/>

# In Person and Synchronous Zoom

The “In Person” times and place are in slide#4

The details for the Synchronous ZOOM are

Topic: PHY250H1-S Electricity and Magnetism

Time: Every week on Mon, Wed

Starting Jan 9, 2023 until Apr 5, 2023

Join Zoom Meeting

<https://us06web.zoom.us/j/89682449186?pwd=M0h0U3VESzFrOTRVUzZqdmRwaVJ4Zz09>

Meeting ID: 896 8244 9186

Passcode: 648304

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**There will be a common room to join the online session in MP126**

**You can join from anywhere**

# Organizational Details

## TA - Tutors :

Last name	First name	Email
Banic	Milica	<a href="mailto:mbanic@physics.utoronto.ca">mbanic@physics.utoronto.ca</a>
Drago	Christian	<a href="mailto:christian.drago@mail.utoronto.ca">christian.drago@mail.utoronto.ca</a>
Gemmell	Caleb	<a href="mailto:caleb.gemmell@mail.utoronto.ca">caleb.gemmell@mail.utoronto.ca</a>
Mantella	Nicholas	<a href="mailto:nmantella@physics.utoronto.ca">nmantella@physics.utoronto.ca</a>
Schwartz	Griffin	<a href="mailto:griffin.schwartz@utoronto.ca">griffin.schwartz@utoronto.ca</a>
Zhang	Emily	<a href="mailto:ezhang@physics.utoronto.ca">ezhang@physics.utoronto.ca</a>
Chou	Gina	<a href="mailto:ginachou@physics.utoronto.ca">ginachou@physics.utoronto.ca</a>

## PHY250H1-S Electricity and Magnetism

Additional course information 

Activity	Time	Room	Instructor(s)	Space Availability	Wait List	Status / Notes
LEC0101	Monday 11:00 — 12:00	<a href="#">MP 102</a>	- Orr, R.	0 of 196 available	Yes: 0 student	In Person
	Wednesday 11:00 — 12:00	<a href="#">MP 102</a>				

Activity	Time	Room	Instructor(s)	Space Availability	Wait List	Status / Notes
LEC0102	Monday 11:00 — 12:00	—	- Orr, R.	5 of 64 available	Yes: 0 student	Online Synchronous (with in-person assessments) August 26, 2022: Section added.
	Wednesday 11:00 — 12:00	—				

# TUTORIAL SECTIONS

<b>Activity</b> TUT0101	<b>Time</b> Monday 13:00 — 14:00	<b>Room</b> MP 134	<b>Instructor(s)</b> —	<b>Space Availability</b> 0 of 35 available
<b>Activity</b> TUT0102	<b>Time</b> Monday 13:00 — 14:00	<b>Room</b> MP 118	<b>Instructor(s)</b> —	<b>Space Availability</b> 0 of 30 available
<b>Activity</b> TUT0201	<b>Time</b> Monday 15:00 — 16:00	<b>Room</b> MP 137	<b>Instructor(s)</b> —	<b>Space Availability</b> 1 of 36 available
<b>Activity</b> TUT0202	<b>Time</b> Monday 15:00 — 16:00	<b>Room</b> MP 118	<b>Instructor(s)</b> —	<b>Space Availability</b> 1 of 30 available
<b>Activity</b> TUT0301	<b>Time</b> Wednesday 13:00 — 14:00	<b>Room</b> MP 134	<b>Instructor(s)</b> —	<b>Space Availability</b> 0 of 36 available
<b>Activity</b> TUT0302	<b>Time</b> Wednesday 13:00 — 14:00	<b>Room</b> MP 118	<b>Instructor(s)</b> —	<b>Space Availability</b> 0 of 30 available
<b>Activity</b> TUT0401	<b>Time</b> Friday 15:00 — 16:00	<b>Room</b> LM 123	<b>Instructor(s)</b> —	<b>Space Availability</b> 6 of 28 available
<b>Activity</b> TUT0402	<b>Time</b> Friday 15:00 — 16:00	<b>Room</b> MP 137	<b>Instructor(s)</b> —	<b>Space Availability</b> 18 of 35 available

# Proposed Marking Scheme

4 Problem sets—

16<sup>th</sup> Jan - 30<sup>th</sup> Jan – 10%

1<sup>st</sup> Feb – 17<sup>th</sup> Feb – 15%

27<sup>th</sup> Feb - 15<sup>th</sup> Mar – 15%

15<sup>th</sup> Mar – 5<sup>th</sup> April – 10%

Mid term 27<sup>th</sup> February – 10%

3 hour final written exam – 40%