Information Session on Physics Honours at the University of Sydney

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Monday, 11th September 2023

If you're on zoom, please enter questions in the Q&A tab.

- Welcome / Introduction (HC)
- ② General introduction to honours (HC)
- Introduction to individual lecture courses (HC & lecturers)
- Introduction to research projects (HC)
- Administrative and other details (HC)
- General discussion / Q&A (all), then lunch & chat

(1) Introduction

- Welcome to the School of Physics!
- This is a resource for those thinking of study beyond bachelor's level.
- The assumption is that you are close to completing a bachelor's, with a major in physics.
- We do *not* assume that you're already studying here we regularly take students from an undergraduate background at other institutions.
- Physics is not for everyone, but physics is special that part of the natural sciences where the objects of study are big enough, small enough, or simple enough to yield to a mix of experimental tests, mathematical analysis, fundamental inquiry, and physical intuition.
- Physics has open borders with maths and engineering, but also with chemistry, geology, biology, philosophy, IT, environmental science ... not to mention astronomy, to which physics is joined at the hip (in the US this would be called a department of "Physics and Astronomy")
- in Sydney, the "next step" beyond undergraduate physics is honours

(2) General introduction to honours

- honours is a fourth year of undergraduate work that is fully devoted to a single subject — physics, in this case
- students take an honours year for a variety of reasons:
 - to extend and "round out" their studies in their favourite subject
 - $\bullet\,$ as the (\approx necessary) next step towards higher academic study
 - to "try [physics] on for size" as a discipline
 - as training and/or enrichment for "unrelated" work
- the mix in honours varies between fields; in physics, it's
 - **50% coursework:** four advanced-level courses (6CP Units of Study)
 - 50% research: a single, large research project taken over 8-9 months
- honours is probably quite unlike the work you have done up to now:
 - you are dedicated to a single area of study
 - the work is academically more demanding
 - you will be apprenticed to a research group all year
 - tasks with qualitatively different time demands must be balanced
 - you will likely have a relatively close cohort

2023-09-11 3 / 25

(2) General introduction: application/enrolment

• there are various formal application paths: * see details later

Sydney Student \longrightarrow "Course details" \longrightarrow "Apply for Advanced Studies honours" https://sydney.edu.au/courses/courses/uc/bachelor-of-science-honours.html https://sydney.edu.au/courses/courses/uc/bachelor-of-liberal-arts-and-science-honours.html https://sydney.edu.au/courses/courses/uc/bachelor-of-medical-science-honours.html

- deadlines: 15th January (for 2024 S1) or 25th June (for 2024 S2)
- the key requirements are:
 - a **bachelor of science**, including "equivalent degrees" and variants: the BLAS, the BMedSc, double degrees, parenthetic degrees . . .
 - a major in physics:
 - a major in nanoscience, or UTS' Applied Physics also count
 - a credit average overall, and in senior physics * see details later
 - an academic willing to supervise you on a research project; they must agree by formal email, cc:physics.honours@sydney.edu.au
- the 15-Jan-2024 date is very late relative to the start of semester; I'd encourage you to apply by the old-style due date, **30-Nov-2023**
- it's **normal** to apply while you're still finishing 3rd-year coursework . . .

(2) General introduction: coursework

- coursework is worth 50% of your honours mark
- you take 4 courses during the year, all 6CP as usual
- the normal pattern is to take 2 in each semester; other patterns are possible, *but much more difficult*
- 2-4 must be chosen from the dedicated honours courses PHYS412X:
 - each 30–36 lectures in size
 - the mix of assignments, projects, and exams varies
 - the usual 5%-per-day late penalties apply
 - you choose courses by enrolling each semester on Sydney Student
 - exams are mostly in weeks 15 & 16 ("exam weeks 1 & 2") as usual
- up to two other physics 4000- and 5000-level courses can be chosen
- ... and, if you wish, you can choose one of a select group of "external" courses from outside of physics, at 4000- and 5000-level
- consultation with your research supervisor is strongly encouraged;
 I am also available for consultation, and you should take other advice
- a picture tells a thousand words:

PHYSICS HONOURS COURSES: choose 2-4

PHYS4121 Advanced Electrodynamics and Photonics PHYS4122 Astrophysics and Space Science PHYS4125 Quantum Field Theory

PHYS4123 General Relativity and Cosmology PHYS4124 Physics of the Standard Model PHYS4126 Quantum Nanoscience



PHYSICS 4XXX & 50XX COURSES: choose 0-2

PHYS4015 Neural Dynamics and Computation PHYS4016 Bayesian Data Inference and Machine Learning PHYS4036, PHYS4037, PHYS4801, PHYS4802 PHYS50XX Medical Physics master's courses PHYS503X Sustainability master's courses OTHER COURSES: choose 0–1

MATH4XXX, STAT4XXX MATH5XXX, STAT5XXX

HPSC4101 SCIE400X

COMP5046, 5310, 5318 COMP5328, 5329, 9120 DATA5441

AERO4701 AMME8520 AMME9302 BMET5931 BMET9981 CHNG5602 ELEC5213 ELEC5511 ELEC5516 ELEC9405

(3) Introduction to lecture courses: physics honours

SEMESTER 1:

- **PHYS4121** Advanced Electrodynamics and Photonics (Zdenka Kuncic +)
- **PHYS4122** Astrophysics and Space Science (Joss Bland-Hawthorn +)
- PHYS4125 Quantum Field Theory (Archil Kobakhidze)

SEMESTER 2:

- PHYS4123 General Relativity and Cosmology (Geraint Lewis)
- PHYS4124 Physics of the Standard Model (Kevin Varvell / BY)
- PHYS4126 Quantum Nanoscience (John Bartholomew +)
- + : These are multi-lecturer courses; the staff member who will speak to the course today is shown

Matching courses PHYS512X are available at HDR level

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(3) Introduction to lecture courses: other physics

- PHYS4036 Particle and Condensed Matter Physics
- PHYS5002 Anatomy and Biol Essentials for Physicists
- PHYS5011 Nuclear Physics and Magnetic Resonance Imaging
- PHYS5012 Radiation Physics and Dosimetry
- PHYS5029 Computation and Image Processing
- PHYS4801 Industrial Ecology
- PHYS5031 Ecological Econ and Sustainable Analysis
- PHYS4037 Astrophysics and Plasma Physics
- PHYS4016 Bayesian Data Inference and Machine Learning
- PHYS5005 Radiotherapy Physics
- PHYS5006 Medical Imaging Physics
- PHYS5018 Health Physics and Radiation Protection
- PHYS5020 Computation and Image Processing
- PHYS4802 Quantitative Disaster Analysis
- PHYS5034 Life Cycle Analysis

senior options / medical physics / sustainability \ni PHYS5032 & 5033 either semester $_{\circ,\circ}$

2023–09–11 7 / 25

(3) Introduction to lecture courses: external

Reminder: at most one such course can be taken.

Faculty-of-Science-hosted courses:

- SCIE4001 Science Communication [S1]
- SCIE4002 Experimental Design and Data Analysis [Intensive March]
- SCIE4003 Ethics in Science [Intensive March & August]

An HPS unit:

• HPSC4101 Philosophy of Science [S1]

Units offered at 4000- and 5000-level by Mathematics and Statistics:

- e.g. MATH4314 Representation Theory [S1]
- e.g. MATH4077 Lagrangian and Hamiltonian Dynamics [S2]
- e.g. STAT4022 Linear and Mixed Models [S1]
- e.g. STAT4027 Advanced Statistical Modelling [S2]
- e.g. STAT5610 Advanced Inference [S2]

(3) Introduction to lecture courses: external

- IT and Engineering units:
 - COMP5046 Natural Language Processing [S1]
 - COMP5310 Principles of Data Science [S1/S2]
 - COMP5318 Machine Learning and Data Mining [S1/S2]
 - COMP5328 Advanced Machine Learning [S2]
 - COMP5329 Deep Learning [S1]
 - COMP9120 Database Management Systems [S1/S2]
 - DATA5441 Networks and High-dimensional Inference [S2]
 - AERO4701 Space Engineering 3 [S1]
 - AMME8520 Advanced Control and Optimisation [S1]
 - AMME9302 Materials 1 [S2]
 - BMET5931 Nanomaterials in Medicine [S1]
 - BMET9981 Applied Biomedical Engineering [S2]
 - CHNG5602 Cellular Biophysics [S2]
 - ELEC5213 Engineering Optimisation [S1]
 - ELEC5511 Optical Communication Systems [S1]
 - ELEC5516 Electrical and Optical Sensor Design [S1]
 - ELEC9405 Communications Electronics and Photonics [S2]

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(4) Introduction to research projects

• the research project is likewise worth 50% of your honours mark

- you are apprenticed to a research group, in particular to your supervisor(s): to participate in the life of the group, to learn (by doing) the methods of their work, to learn (by instruction and osmosis) about the subject area, and to carry out research work of your own
- our list of research projects for 2024 is posted on the web:
 - you should discuss projects that interest you directly with the staff member listed as contact
 - these projects are an *indicative sample*: treat them as a guide
 - it may be possible to negotiate a project that is not on the list
- we recommend project work start three weeks before the start of lectures
- assessment is via a formal talk (10%) due by S2 week 9, and a 40pp written report (90%) due by S2 week 12, assessed by your group (who also consider your work), and ≥ 2 external examiners
- enrolment is in PHYS{4103,4104} (S1) and PHYS{4105,4106} (S2); you get one single mark overall for your project

inked from: https://canvas.svdney.edu.au/courses/7932/

Physics Honours Projects: 2024

This document lists a number of potential honours research projects within the School of Physics, together with supervisor contact details and a paragraph describing each of the projects. These are only some of the opportunities available, and *you are welcome to explore other possibilities with potential supervisors*. If you are free, please also join us for the **Honours Information Session at 12:00 on Monday 11th September**.

It is important to choose a project and supervisors to suit your interests and skills. You are encouraged to have discussions with several possible supervisors before making a decision. Speaking to honours and postgraduate students will also give you valuable feedback. The Web of Science (accessible from the Library website) will give you information on the research activity of the School's academics. You should also read the School's Research pages (https://sydney.edu.au/science/schools/school-of-physics.html) for more information on areas of active research.

You must arrange a supervisor and project prior to applying for honours. When you have reached agreement with a supervisor, please ask them to send you a formal email agreeing to take you on as a student, with cc to physics.honours@sydney.edu.au. Note that you should aim to start work on your research project three weeks before the start of lectures. This will enable you to get your project underway before lectures and assignments compete for your time. You should also make certain that your proposed supervisor will not be absent for protracted periods during semester, unless an associate supervisor is also involved. These issues will need to be formally settled when you submit your Research Plan, two weeks after the start of your first semester as an honours student.

Thank you for your interest in physics honours.

Bruce Yabsley, Honours Coordinator (physics.honours@sydney.edu.au), 7th September 2023

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(4) Introduction to research projects: project list

linked from: https://canvas.sydney.edu.au/courses/7932/

Contents

Grand Challenge Projects	2
Astronomical and space science	3
Biological, biomedical and medical physics	8
Complex systems; Data science	10
Condensed matter physics; Materials physics	14
Particle physics	16
Photonics and optical science	20
Plasma Physics	24
Quantum physics and quantum information	25
Renewable Energy and Sustainability	30

2023-09-11 11 / 25

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(5) Administrative and other details: application (i)

USyd has a distinctive "Bachelor of Advanced Studies", and *most* science students here are in a combined BSc/BAS degree. This runs for four years, and honours is a specialisation of that fourth year.

- such students apply in Sydney Student:
 "Course Details" and then "Apply for Advanced Studies honours"
- most students in other degrees, and all students from other universities, should apply for the BSc (Hons) degree:

https://sydney.edu.au/courses/courses/uc/bachelor-of-science-honours.html

• there are a couple of USyd degrees with their own enrolment paths: you will probably recognise these if they apply to you

https://sydney.edu.au/courses/courses/uc/bachelor-of-liberal-arts-and-science-honours.html https://sydney.edu.au/courses/courses/uc/bachelor-of-medical-science-honours.html

• once you are accepted into honours, the difference between these cases will be \approx invisible to you: unit enrolment etc. works the same way in all cases

(5) Administrative and other details: application (ii)

- BSc BAS: admission is within Sydney Student; others get an "offer"
- there can be a delay between a "provisional offer" and the "final offer" ... which won't be issued until your bachelor's degree is fully graded
- your offer may also need to wait on any outstanding fees/fines/...
- if there are problems/delays with your application, please contact me
- you can enrol in honours after a gap: *e.g.* if you finished your bachelor's a semester ago, or two years ago, this is still OK

The University's eligibility test for honours relies on the **WAM** (Weighted Average Mark), with 6CP units weighted \times 6, 2CP units \times 2, ...

Physics' requirement on the senior physics mark works the same way.

Note that the WAM and senior physics average **count all course attempts**, **including fails:** *e.g.* your senior physics grades at Fictitious University are 68 (PHY301), 44 (PHY302), 71 (PHY303), & 64 (PHY304), and you re-take PHY302 receiving 73 — in this case, the senior physics average is 64.

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Honours information session: physics

2023-09-11 13 / 25

(5) Administrative and other details: full/part time

So far everything has assumed that you enrol in honours full time (meaning full-time-full-time: 24CP per semester for two semesters).

From the degree resolutions:

Candidates ... must complete the requirements for the honours component full-time over two consecutive semesters. If the School is satisfied that a student is unable to attempt the honours component on a full time basis and if the Associate Dean so recommends, permission may be granted to undertake honours part-time over four consecutive semesters.

Historically, this has only been done rarely: once every few years.

There have been more cases recently, to manage COVID disruption, or following illness. It is still not common, and permission is required.

Bottom line: Honours is a lot of work and it needs your full attention. Part-time honours is only by special permission.

Seven examples of course enrolments in physics honours:

(1) PHYS412X courses only; starting first semester

2024 S1	PHYS4122	Astrophysics and Space Science
2024 S1	PHYS4125	Quantum Field Theory
2024 S1	PHYS4103	Physics Honours Project A
2024 S1	PHYS4104	Physics Honours Project B
2024 S2	PHYS4123	General Relativity and Cosmology
2024 S2	PHYS4124	Physics of the Standard Model
2024 S2	PHYS4105	Physics Honours Project C
2024 S2	PHYS4106	Physics Honours Project D
2024 S2	SCIE4999	Final Honours Mark [special 0CP "unit"]

Seven examples of course enrolments in physics honours:

(2) including a maths course; starting first semester

2024 S1	PHYS4125	Quantum Field Theory
2024 S1	MATH4314	Representation Theory
2024 S1	PHYS4103	Physics Honours Project A
2024 S1	PHYS4104	Physics Honours Project B
2024 S2	PHYS4123	General Relativity and Cosmology
2024 S2	PHYS4126	Quantum Nanoscience
2024 S2	PHYS4105	Physics Honours Project C
2024 S2	PHYS4106	Physics Honours Project D
2024 S2	SCIE4999	Final Honours Mark [special 0CP "unit"]

Seven examples of course enrolments in physics honours:

(3) including another physics course, starting first semester

2024 S1	PHYS4036	Particle and Condensed Matter Physics
2024 S1	PHYS4125	Quantum Field Theory
2024 S1	PHYS4103	Physics Honours Project A
2024 S1	PHYS4104	Physics Honours Project B
2024 S2	PHYS4124	Physics of the Standard Model
2024 S2	PHYS4126	Quantum Nanoscience
2024 S2	PHYS4105	Physics Honours Project C
2024 S2	PHYS4106	Physics Honours Project D
2024 S2	SCIE4999	Final Honours Mark [special 0CP "unit"]

Seven examples of course enrolments in physics honours:

(4) including an IT course; starting first semester

2024 S1	PHYS4121	Advanced Electrodynamics and Photonics
2024 S1	PHYS4125	Quantum Field Theory
2024 S1	PHYS4103	Physics Honours Project A
2024 S1	PHYS4104	Physics Honours Project B
2024 S2	PHYS4123	General Relativity and Cosmology
2024 S2	COMP5310	Principles of Data Science
2024 S2	PHYS4105	Physics Honours Project C
2024 S2	PHYS4106	Physics Honours Project D
2024 S2	SCIE4999	Final Honours Mark [special 0CP "unit"]

Seven examples of course enrolments in physics honours:

(5) incl. other physics & external courses; starting first semester

2024 S1	PHYS4121	Advanced Electrodynamics and Photonics
2024 S1	BMET5931	Nanomaterials in Medicine
2024 S1	PHYS4103	Physics Honours Project A
2024 S1	PHYS4104	Physics Honours Project B
2024 S2	PHYS4126	Quantum Nanoscience
2024 S1	PHYS5006	Medical Imaging Physics
2024 S2	PHYS4105	Physics Honours Project C
2024 S2	PHYS4106	Physics Honours Project D
2024 S2	SCIE4999	Final Honours Mark [special 0CP "unit"]

Seven examples of course enrolments in physics honours:

(6) including two other physics courses, starting second semester

2024 S2	PHYS4037	Astrophysics and Plasma Physics
2024 S2	PHYS4016	Bayesian Data Inference and Machine Learning
2024 S2	PHYS4103	Physics Honours Project A
2024 S2	PHYS4104	Physics Honours Project B
2025 S1	PHYS4121	Advanced Electrodynamics and Photonics
2025 S1	PHYS4122	Astrophysics and Space Science
2025 S1	PHYS4105	Physics Honours Project C
2025 S1	PHYS4106	Physics Honours Project D
2025 S1	SCIE4999	Final Honours Mark [special 0CP "unit"]

Seven examples of course enrolments in physics honours:

(7) with "frontloading", starting second semester

2024 S2	PHYS4123	General Relativity and Cosmology
2024 S2	PHYS4124	Physics of the Standard Model
2024 S2	PHYS4126	Quantum Nanoscience
2024 S2	PHYS4103	Physics Honours Project A
2025 S1	PHYS4125	Quantum Field Theory
2025 S1	PHYS4104	Physics Honours Project B
2025 S1	PHYS4105	Physics Honours Project C
2025 S1	PHYS4106	Physics Honours Project D
2025 S1	SCIE4999	Final Honours Mark [special 0CP "unit"]

(5) Administrative and other details: scholarships

Various scholarships are available in a typical year, including

- University of Sydney Honours Scholarships
- School of Physics Honours Scholarships
- The Malcolm Turki Memorial Scholarship (for those suffering financial hardship)
- Faculty of Science Honours Relocation Scholarships

and others; note that

- there can be changes year-to-year
- scholarships can be available to domestic students, international students, or both
- some scholarships have special conditions
- you are automatically eligible for some scholarships, but need to actively apply for others

See https://www.sydney.edu.au/scholarships/ for a full list.

(5) Administrative & other details: postgraduate

- if you are thinking about postgraduate study, svetlana.postnova@sydney.edu.au handles HDR admissions for the School of Physics, and can answer questions
- honours is the traditional path to PhD study in the natural sciences in Australia (the situation overseas varies by country)
- the basic path would be to do honours in or close to your preferred (sub-)field, obtain First Class Honours ("H1"; ≥ 80 overall), and ideally as good a result as possible
- https://www.sydney.edu.au/scholarships/domestic/ postgraduate-research/australian-government-research-training-program.html sets out the conditions for "RTP" scholarships
 - this *does* require an H1
 - deadlines are end May for RP3 & RP4, end October for RP1 & RP2
 - you may need to apply before you receive your honours results
- other scholarships exist

(5) Administrative & other details: contacts & dates

Where to find information and help:

- https://sydney.edu.au/science/study/undergraduate-courses/ honours-in-science.html
- public-facing Honours Canvas is still under construction; will appear under Student Portal: https://canvas.sydney.edu.au/courses/7932/
- Sydney Student → "Course details" → "Apply for Advanced Studies honours" within BSc/BAS; or https://sydney.edu.au/courses/courses/uc/ bachelor-of-science-honours.html etc. as appropriate
- current and previous honours students, your (potential) supervisor(s) ...
- physics.studentservices@sydney.edu.au
- physics.honours@sydney.edu.au

Important dates:

- end-Nov/early-Dec-2023 application target (deadline not til Jan 2024)
- Monday 29th January 2024 start project work ("week -2")
- Monday 19th February 2024 start of lectures ("week 1")

(6) Question and answer ...

Bruce Yabsley (HC)

Honours information session: physics

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 2023-09-11
 25 / 25

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