You may be eligible for a range of scholarships to support you with your Master's studies. The School of Physics and Astronomy offers the J. L. William Master's scholarships – named after a leading scientific instrument maker. Monash University also provides many scholarship opportunities for students from disadvantaged groups and Indigenous backgrounds.

For more information:
monash.edu/study/fees-scholarships

Further information
monash.edu/physics

Future student enquiries
Australian Citizens, Permanent Residents
Tel: 1800 MONASH (666 274)
Email: future@monash.edu
monash.edu/study/contact

International students
Australia freecall tel: 1800 161 838
Tel: +61 3 9903 4788 (outside Australia)
Email: study@monash.edu
WeChat: MonashUniAus
Youku: Monash 蒙纳士大学

facebook.com/MonashUniScience
youtube.com/user/ScienceMonashUni

COURSE STRUCTURE

The degree offers a wide choice of advanced coursework units and a research project.

Coursework units can be chosen from:
- Quantum mechanics (compulsory), Advanced statistical mechanics
- Quantum fluid and many-body theory
- Quantum field theory I and II, particle physics, classical electrodynamics
- Quantum information and quantum computing
- Condensed matter physics I and II, statistical mechanics
- Advanced statistical mechanics, and critical phenomena

For more information:
monash.edu/study/courses/find-a-course/2019/science-s6000

SCHOLARSHIPS

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Physics encompasses both the foundational and the practical. It provides the basis for understanding the Universe and underpins many of our current technologies, e.g., wifi, next generation electronics, medical imaging, quantum computing, and complex systems, to name a few.

From atoms to devices and from molecule to organism, physics has a critical role to play in 21st century society. With our new specialised Master of Science in Physics degree you will become a highly trained scientist, with the tools and creative insights to make your own discoveries and the adaptability to navigate a rapidly changing technological world.

**COURSE DESCRIPTION**

Our two-year program comprises advanced coursework and a research project leading to a major thesis in: observational astronomy, computational astrophysics, experimental physics, computational or theoretical physics.

Physicists use their knowledge and training in diverse careers including: macromolecular biology and drug design, medical imaging, synchrotron science, design of advanced materials, photonics, climate modelling and research, medical and scientific instrumentation, the energy industry, solar power, industrial product development, science teaching, and science communication.

**CAREER OPPORTUNITIES**

Our graduates find employment in industry, hospitals and scientific organisations; recent examples include: Agilent, Optiscan, the Alfred Hospital, the Australian Synchrotron, the Australian Antarctic Division, CSIRO, the Australian Nuclear Science and Technology Organisation, the EPA, and many other organisations.

Many of our Master’s graduates proceed to further study, enrolling in a research Doctorate.

**FURTHER STUDY - RESEARCH PROJECTS**

An important feature of the Master's degree is the research project, which extends over two years and is devoted to exploring in-depth a contemporary topic in observational astronomy, computational astrophysics, experimental physics or computational/theoretical physics. For a full list of research projects visit: monash.edu/science/schools/physics/master/master-project

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### COURSE STRUCTURE

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<th>Year 1</th>
<th>Semester 1</th>
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<tr>
<td>PHS4021</td>
<td>Physics coursework B</td>
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<th>Year 2</th>
<th>Semester 2</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>PHS5000</td>
<td>Advanced physics research project</td>
<td>24</td>
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</tbody>
</table>

Part A: Advanced studies
Part B: Research project
Part C: Extended technical studies
Part D: Advanced research project

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### ENTRY REQUIREMENTS

**English entry requirements (Domestic)**

- Applicants must also meet the English language requirements.

**English entry requirements (International)**

- IELTS (Academic English Only): 6.5 Overall (no band lower than 6.0)
- TOEFL (Internet-based): 79 Overall (Writing: 21, Speaking: 18, Reading: 13, Listening: 12)
- Pearson’s Test of English (PTE): 58 Overall (no band lower than 50)
- Cambridge Certificate of Proficiency in English (COE): 176 Overall (no band lower than 169)

*Test taken from January 2015 and onwards

**Fees**

- International students: monash.edu/study/courses/find-a-course/2019/science-e6000/internationalstudyentryrequirements-2
- Domestic students: monash.edu/study/courses/find-a-course/2019/science-e6000/domesticstudyentryrequirements-2

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