Welcome to the Physics offer holder event!

Top 20 University in the UK

Guardian University League Table 2021
Physics at Aberdeen

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Who are we?

Research active, interdisciplinary physicists
Strong interest in teaching
Physics – A way of thinking
Example: Atoms?

Lucretius
Approximately 50 BC
Proposed that matter is made of atoms

Einstein
1905
Proved the existence of atoms!!

Pollen in water

Electricity in the atmosphere

$E = 100 \text{ V/m}$

+300 V
+200 V
+100 V
0 V

200 V at the height of our nose

Why don’t we get a shock?

http://www.feynmanlectures.caltech.edu/II_09.html
There was a young lady of Wight,
Who travelled much faster than light,
She departed one day,
In a relative way,
And arrived on the previous night.

[Stephen Hawking]
Braking barriers between physics and other disciplines

The field of physics has changed a great deal

An interdisciplinary research culture is in prospect and it excites Francisco Perez-Reche

[The Scotsman 200 Anniversary, 16 March 2017]
Who are we catering for?

• Career physicist
• Career scientist with a strong background in physics
• Student with a general interest in physics
• Technically biased career with a foundation of physical knowledge and skills
• Physics teacher
Physics content emphasis...

- The making of a modern scientist
- Emphasis on skills as well as physics
- Typical course has 25% continuous assessment
- Full-session final Honours project
Strength of our physics degrees

• Wide coverage of subjects within a programme
• Scope for creative ability
• Learn fundamental scientific laws that are the basis of application and innovation
• Recognised qualification in which recipient has a high level of achievement
Physics at Aberdeen

• **Versatile**, high quality, degrees leading to a wide range of careers
• **Flexible**: good opportunity within the BSc framework to transfer between degrees
• **Up-to-date** in content, delivery and in aims
Choosing your courses

- **Course choice**: electronic form called “OneSource”

- Shortly before the start of term you will need to select your courses

- It is important that you spend some time thinking about this
• Automatically enrolled onto your **main course** choices – physics and maths

• **Other options** which could make your degree outcome more flexible
  
  • Physics with Geology, Physics and Maths, Physics with Philosophy
### First year courses

**PROGRAMME YEAR 1 – 120 Credit Points**

<table>
<thead>
<tr>
<th>First Half Session</th>
<th>Second Half Session</th>
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<tbody>
<tr>
<td><strong>Course Code</strong></td>
<td><strong>Course Title</strong></td>
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<tr>
<td>PD 1002</td>
<td>Getting Started at the University of Aberdeen</td>
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<tr>
<td>PX 1015</td>
<td>The Physical Universe A</td>
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<tr>
<td>MA 1005</td>
<td>Calculus I</td>
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<tr>
<td>MA 1006</td>
<td>Algebra</td>
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*Plus 45 credit points from courses of choice.*

- 75 credits – compulsory courses
- 45 credits – optional courses
- In one year: 120 credits per year

1 credit = 10 hours (contact hours, self-study, assessments...)

Prescribed, online (5-6 h). Orientation, health, equality and diversity...

[https://www.abdn.ac.uk/registry/calendar/display.php?id=723&section=science](https://www.abdn.ac.uk/registry/calendar/display.php?id=723&section=science)
Some optional courses

Astronomy and Meteorology
PX1514

Understanding data
ST1506
<table>
<thead>
<tr>
<th>Time</th>
<th>Course</th>
<th>Location</th>
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<tbody>
<tr>
<td>9:00</td>
<td>PX1015 LEC</td>
<td>MT4 Meston Building</td>
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<td>10:00</td>
<td>MA1006 LEC</td>
<td>ZG18 Lecture Theatre Zoology Building</td>
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<td>CM1021 LEC</td>
<td>NK10 New King's</td>
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<td>PX1015 TUT</td>
<td>MR252 MacRobert Building</td>
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<td>13:00</td>
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<td>Arts Lecture Theatre William Guild Building</td>
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<td>MA1005 LEC</td>
<td>FN2 Fraser Noble Building</td>
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<td>PX1015 PRA</td>
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More than just courses
Remember

• Don’t rush your course choices – think about what you want to achieve

• Try to make your degree outcomes as flexible as you can

• If you’re unsure about your course choices, talk to your tutor when the terms starts