

Section 2 - Connect with your University



Reading List – Physics

If you are looking to do some reading/preparation ahead of starting University here are some suggested tasks which you might like to try:

From Science Daily

- Articles on [Dark Matter](#)
- Articles on [Big Bang](#)
- Articles on [Cosmology](#)
- Articles on [Astrophysics](#)
- Articles on [Matter and Energy](#)

From the Institute of Physics

- Journal on [Nuclear Fusion](#)
- Journal of [Applied Physics](#)
- Article on “[Hubble’s best shots: A cheeky gravitational grin](#)”

Engineering

From Science Daily

- Articles on [Aerospace](#)
- Articles on [Engineering and Construction](#)
- Articles on [Energy and Resources](#)

From the Institute of Physics

- Journal on [Fluid Dynamic Research](#)
- Journal on [Progress in Energy](#)

- Journal on [Functional Composites and Structures](#)
- Journal on [Engineering Research](#)

Computer Science and Mathematics

From Science Daily

- Articles on [Artificial Intelligence](#)
- Articles on [Computer Science](#)
- Articles of [Quantum Computing](#)
- Articles on [Hacking](#)
- Articles on [Mathematics](#)

From the Institute of Physics

- Journal on [Quantum Science and Technology](#)
- Journal on [Inverse Problems](#)
- Journal on [Mathematics and Theoretical Physics](#)

Interesting and Strange Articles

From Science Daily

[Long spaceflights affect astronaut brain volume](#)

[Engineers 3D print soft, rubbery brain implants](#)

[Why the solar wind is hotter than expected](#)

[Puzzle of Compton scattering solved: New approach for testing theories in quantum mechanics](#)

[New formation theory explains the mysterious interstellar object 'Oumuamua](#)

[New 'refrigerator' super-cools molecules to nanokelvin temperatures](#)

[Expert mathematicians stumped by simple subtractions](#)

[Mysterious release of radioactive material uncovered](#)

Videos on YouTube

Physics

[The Secrets of Light and Energy – BBC](#)

[Everything and Nothing – Reel Truth Science - Part 1](#)

[Everything and Nothing – Reel Truth Science – Part 2](#)

[Atom: The Illusion of Reality – Reel Truth Science](#)

[The True Nature of Time – Discovery Channel](#)

Engineering

[High-tech in the Air – Free Documentary](#)

[The Making of a Wind Turbine – Free Documentary](#)

[Mega Cranes – Free Documentary](#)

[How do Engineers Build Safe Bridges? – Spark](#)

[How to Make Sure Ships Don't Slink – Spark](#)

Computing and Mathematics

[Quantum Computing Pyramid – National Geography](#)

[Calculating Ada – The Countess of Computing - BBC](#)

[Magic Numbers – Mysterious World of Maths – BBC](#)

[The Math Mystery Mathematics in Nature and Universe – Science Documentary – Nova](#)

[The Story of Binary Number – Documentary Warehouse](#)

Top 5 Books for Physics

1. Six easy pieces - Book by Richard Feynman
2. Seven Brief Lessons on Physics - Book by Carlo Rovelli
3. Physics of the Impossible: A Scientific Exploration into the World of Phasers, Force Fields, Teleportation, and Time Travel - Book by Michio Kaku
4. A Short History of Nearly Everything - Book by Bill Bryson
5. Why Does $E=mc^2$? - Book by Brian Cox and Jeff Forshaw