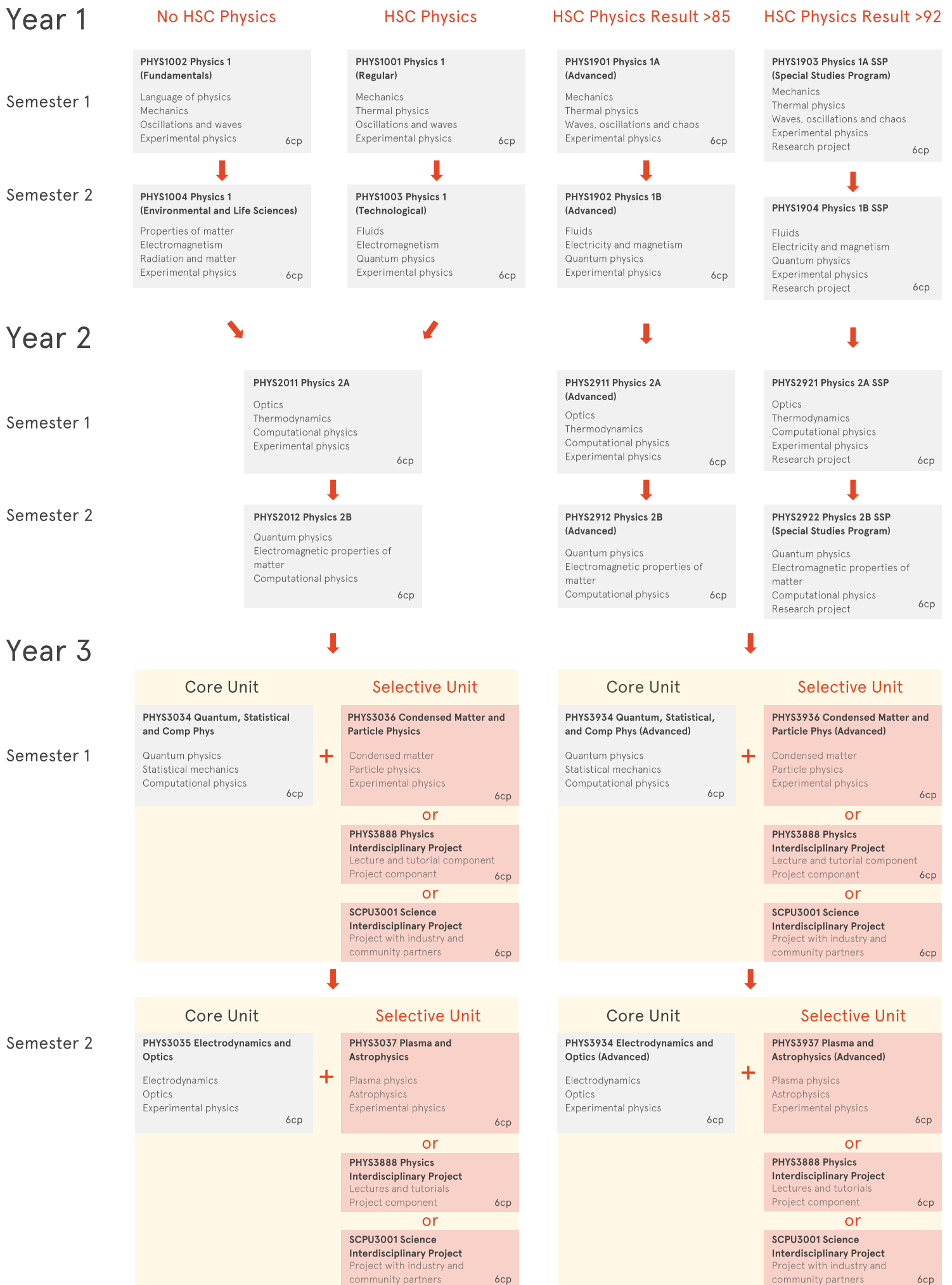


# Physics Major



# Physics Major Course Structure

Year 1		Year 2		Year 3	
Semester 1	Semester 2	Semester 1	Semester 2	Semester 1	Semester 2
<b>Physics 1 or Physics 1A</b> PHYS1002 PHYS1001 PHYS1901 PHYS1903 6cp	<b>Physics 1 or Physics 1B</b> PHYS1004 PHYS1003 PHYS1902 PHYS1904 6cp	<b>Physics 2A</b> PHYS2011 PHYS2911 PHYS2921 6cp	<b>Physics 2B</b> PHYS2012 PHYS2912 PHYS2922 6cp	<b>Quantum, Statistical and Comp Physics</b> PHYS3034 PHYS3934 6cp	<b>Electrodynamics and Optics</b> PHYS3035 PHYS3934 6cp
<b>Calculus of One Variable</b> MATH1021 MATH1921 MATH1931 3cp	<b>Multivariable Calculus and Modelling</b> MATH1023 MATH1923 MATH1933 3cp	<b>Vector Calculus and Differential Equations</b> MATH2021 MATH2921 6cp	<b>Astrophysics and relativity</b> PHYS2013 PHYS2913 PHYS2923 6cp	<b>Condensed Matter and Particle Physics</b> PHYS3036 PHYS3936 or <b>PHYS3888 Physics Interdisciplinary project</b> or <b>SCPU3001 Science Interdisciplinary project</b> 6cp	<b>Plasma and Astrophysics</b> PHYS3037 PHYS3937 or <b>PHYS3888 Physics Interdisciplinary project</b> or <b>SCPU3001 Science Interdisciplinary project</b> 6cp
<b>Linear Algebra</b> MATH1002 MATH1902 3cp	<b>Statistical Thinking with Data</b> MATH1005 MATH1905 3cp	<b>Elective</b> 6cp	<b>Elective</b> 6cp	<b>Major 2</b> 6cp	<b>Major 2</b> 6cp
<b>OLET</b> Any combination of OLET units 6cp	<b>OLET</b> Any combination of OLET units 6cp	<b>Major 2</b> 6cp	<b>Major 2</b> 6cp	<b>Major 2</b> 6cp	<b>Major 2</b> 6cp
<b>Major 2</b> 6cp	<b>Major 2</b> 6cp	<b>Major 2</b> 6cp	<b>Major 2</b> 6cp	<b>Major 2</b> 6cp	<b>Major 2</b> 6cp

This is an example of the course structure for a physics major for a student intending to continue into Honours.

## Physics OLEs and Electives

Various sessions

<b>OLET1605 Communication in STEM</b> 2cp	<b>OLET1618 Data Science in Astronomy: Algorithms</b> 2cp	<b>OLET1620 Data Science in Astronomy: Analysis</b> 2cp	<b>OLET1622 Numbers and Numerics</b> 2cp
<b>OLET1636 Astronomy: from Earth to Exoplanets</b> 2cp	<b>OLET1638 Astronomy: from Stars to Black Holes</b> 2cp	<b>OLET1640 Astronomy: from Big Bang to Darkness</b> 2cp	<b>OLET1652 How to Estimate Anything</b> 2cp
<b>OLET2610 Foundations of Quantum Computing</b> 2cp			

Semester 1

<b>COSC2002 Computational Modelling</b> 6cp	<b>COSC2902 Computational Modelling (Advanced)</b> 6cp
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Semester 2

<b>NANO2002 Introduction to Nanoscience</b> 6cp	<b>PHYS2013 Astrophysics and Relativity</b> Cosmology Special relativity Experimental physics 6cp	<b>PHYS2913 Astrophysics and Relativity (Advanced)</b> Cosmology Special relativity Experimental physics 6cp	<b>PHYS2923 Astrophysics and Relativity SSP</b> Cosmology Special relativity Experimental physics Research project 6cp
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