

Current 2011 UCL Physics and Astrophysics course codes with the old Physics course codes (**bracketed**) for the nearest equivalent or overlapping B.Sc. degree modules under the old scheme:

B.Sc. PHYSICS:

1102 Physics of the Universe

1224 Waves, Optics and Acoustics (**1B72 Waves and Modern Physics** - same or nearest equivalent)

1228 Thermal Physics (**1B28 Thermal Physics** - same or equivalent 1st year module)

1240 Practical Skills 1C (Core Physics) = (**1B70 Practical Laboratory Skills and computing I**)

1245 Mathematical Methods I (**1B71 Mathematical Methods for Physics I** – same or equivalent)

1246 Mathematical Methods II (**2B71-72 Mathematical Methods II** - same or equivalent or overlap)

1247 Classical Mechanics (**1B27 or 1B47 Classical Mechanics** - same or equivalent 1st year course)

2224 Atomic & Molecular Physics (**2B24 Atomic and Molecular Physics** – same or equivalent)

2228 Statistical Thermodynamics (**2B28 Stat. Thermodynamics and Condensed Matter Physics**)

2222 Quantum Physics (**2B22 Quantum Physics** - same or equivalent 2nd year module)

2201 Electricity and Magnetism (**1B26 Electricity and Magnetism** – nearest equivalent or overlaps)

2246 Mathematical Methods III (old **2B72 Mathematical Methods II** – similar topics, overlaps)

2440 Practical Physics 2A - (**2B70 Practical Laboratory skills and computing II** - overlaps)

2441 Practical Physics 2B – (**2B70 Practical Skills and computing II** - cont. overlaps)

Options:

2427 Environmental Physics (**2B27 Environmental Physics** - same or equivalent 2nd year course)

2117 Physics of the Solar System

3224 Nuclear and Particle Physics (**3C24 Nuclear and Particle Physics** – same or equivalent)

3226 Quantum Mechanics (**3C26 Quantum Mechanics** – same or equivalent 3rd year module)

3225 Solid State Physics (**3C25 Solid State Physics** – same or equivalent 3rd year module)

3201 Electromagnetic Theory (**2B29 EM Theory** – nearest equivalent or overlaps)

3441 Group Project (**3C70 Practical Lab Skills III** - cont. included small group project, overlaps)

3400 Physics Project (**3C80 Individual Physics Project** – nearest equivalent 3rd year module)

OR

3440 Experimental Physics plus 1 extra option (could include component like **3C75 Principles and Practice of Electronics** ?)

Physics B.Sc. Options:

2117 Physics of the Solar System

MATH6202 Mathematics for Physics and Astronomy

3443 Lasers and Modern Optics (**3C43 Lasers and Modern Optics** – same or equivalent 3rd year)

3137 Physical Cosmology (**3C74 Topics in Modern Cosmology** – nearest equivalent or overlaps)

B.Sc. ASTROPHYSICS:

1102 Physics of the Universe

1228 Thermal Physics (**1B28 Thermal Physics** – same or equivalent)

1224 Waves, Optics and Acoustics (**1B72 Waves and Modern Physics** - same or equivalent)

1130 Practical Skills 1A (Astronomy) = (1B30 Practical Astronomy I)

1240 Practical Skills 1C (Core Physics) = (**1B70 Practical Skills and Computing I** - equivalent)

1245 Mathematical Methods I (**1B71 Math Methods for Physics I** – equivalent 1st year maths)

1246 Mathematical Methods II (**1B71-2B72 Math Methods II** – equivalent or overlaps)

1247 Classical Mechanics (**1B27** or **1B47 Classical Mechanics** – same or equivalent as above)

2112 Astrophysical Processes: Nebulae to Stars

2228 Statistical Thermodynamics (**2B28 Stat. Thermodynamics and CMP** – nearest equivalent)

2117 Physics of the Solar System

2222 Quantum Physics (**2B22 Quantum Physics** – same or equivalent 2nd year module)

2130 Practical Astrophysics 2A (2B30)

2201 Electricity and Magnetism (**1B26 Electricity and Magnetism** – nearest equivalent or overlaps)

2246 Mathematical Methods III (**2B72 Mathematical Methods II** - overlaps - see above)

3135 The Physics of Stars

3137 Physical Cosmology (**3C74 Topics in Modern Cosmology** – same or equivalent 3rd year)

3338 Astronomical Spectroscopy

3330 Practical Astronomy 1 – Techniques

3333 Interstellar Physics

3331 Practical Astronomy 2 - Applications OR

3332 Practical Astronomy 3 - Field Trip OR

3441 Physics Group Project (**3C70 Practical Skills and Computing III** – overlaps)

Astrophysics B.Sc. Options:

3226 Quantum Mechanics (**3C26 Quantum Mechanics** – same or equivalent 3rd year module)

3201 Electromagnetic Theory (**2B29 EM Theory** – nearest equivalent or overlaps)

3224 Nuclear and Particle Physics (**3C24 Nuclear and Particle Physics** – same or equivalent)

<http://phys-cmp.tripod.com> - Lecture notes index with some of the old MSci Phys/Astro modules