F303 MPhys Year 1 2019/20

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Code** | **Name** | **Credits** | Level | Semester |
| PHYS101 | Newtonian Dynamics | 15 | 4 | 1 |
| PHYS102 | Thermal Physics and Properties of Matter | 15 | 4 | 1 |
| PHYS103 | Wave Phenomena | 15 | 4 | 2 |
| PHYS104 | Foundations of Modern Physics | 15 | 4 | 2 |
| PHYS105 | Introduction to Computational Physics | 7.5 | 4 | 1 |
| PHYS106 | Practical Physics I | 15 | 4 | 1+2 |
| PHYS107 | Maths for Physicists I | 15 | 4 | 1 |
| PHYS108 | Maths for Physicists II | 15 | 4 | 2 |
| ***+ 7.5 credits from:*** | | | | |
| PHYS115 | Introduction to Medical Physics | 7.5 | 4 | 2a |
| PHYS135 | Introduction to Nuclear Science | 7.5 | 4 | 2a |
| PHYS155 | Introduction to Astrophysics | 7.5 | 4 | 2a |
| PHYS165 | Introduction to Physics for Education | 7.5 | 4 | 2a |
| **Total Credits** | | **120** |  |  |

F303 MPhys Year 2 2019/20

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Code** | **Name** | **Credits** | Level | Semester |
| PHYS201 | Electromagnetism I | 15 | 5 | 1 |
| PHYS202 | Condensed Matter Physics | 15 | 5 | 2 |
| PHYS203 | Quantum and Atomic Physics I | 15 | 5 | 1 |
| PHYS204 | Nuclear and Particle Physics | 15 | 5 | 2 |
| PHYS205 | Computational Physics | 15 | 5 | 1+2 |
| PHYS206 | Practical Physics II | 15 | 5 | 1+2 |
| PHYS207 | Maths for Physicists III | 15 | 5 | 1 |
| ***+ 15 credits from:*** | | | | |
| PHYS208 | Maths for Physicists IV | 15 | 5 | 2 |
| PHYS246 | Accelerators & Radioisotopes in Medicine | 15 | 5 | 2 |
| PHYS251 | Stellar Physics | 15 | 5 | 2 |
| **Total Credits** | | **120** |  |  |

F303 MPhys Year 3 2019/20

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Code** | **Name** | **Credits** | **Level** | **Semester** |
| PHYS306 | Practical Physics III | 15 | 6 | 1 |
| PHYS305 | Computational Modelling | 15 | 6 | 2 |
| PHYS361 | Quantum and Atomic Physics II | 15 | 6 | 1 |
| PHYS370 | Electromagnetism II | 15 | 6 | 2 |
| PHYS393 | Statistical Physics | 7.5 | 6 | 1b |
| ***Options: 52.5 credits from:- (S1/S2 imbalance must be no more than 15 credits)*** | | | | |
| PHYS309 | Research Internship | 15 | 6 | - |
| PHYS375 | Nuclear Physics | 7.5 | 6 | 1a |
| PHYS377 | Particle Physics | 7.5 | 6 | 2a |
| PHYS363 | Solid State Physics | 7.5 | 6 | 1a |
| PHYS387 | Material Physics and Characterization | 7.5 | 6 | 1a |
| PHYS381 | Surfaces and Interfaces | 7.5 | 6 | 2a |
| PHYS399 | Magnetic Properties of Solids | 7.5 | 6 | 2b |
| PHYS389 | Semiconductor Applications | 7.5 | 6 | 1b |
| PHYS392 | Statistics for Physics Analysis | 15 | 6 | 1 |
| PHYS372 | Energy Generation and Storage | 7.5 | 6 | 2b |
| PHYS376 | Nuclear Power | 7.5 | 6 | 2a |
| PHYS384 | Medical Applications | 15 | 6 | 2 |
| PHYS321 | Physics of Sound and Music | 7.5 | 6 | 2b |
| PHYS355 | Planetary Physics | 7.5 | 6 | 2b |
| PHYS373 | Physics of Galaxies | 15 | 6 | 1 |
| PHYS374 | Relativity and Cosmology | 15 | 6 | 2 |
| PHYS246 | Accelerators & Radioisotopes in Medicine (2019/20 only) | 15 | 5 | 2 |
| PHYS251 | Stellar Physics (2019/20 only) | 15 | 5 | 2 |
| **Total Credits** | | **120** |  |  |

F303 MPhys Year 4 2019/20

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Code** | **Name** | **Credits** | Level | Semester |
| PHYS498 | Project (MPhys) | 30 | 7 | 1 + 2 |
| ***Options: 90 credits from… (S1/S2 imbalance must be no more than 15 credits)*** | | | | |
| PHYS470 | Classical Mechanics | 15 | 7 | 1 |
| PHYS480 | Advanced Quantum Physics | 15 | 7 | 1 |
| PHYS481 | Accelerator Physics | 7.5 | 7 | 1b |
| PHYS497 | Magnetic Structure and Function (2019/20 only) | 7.5 | 7 | 1a |
| PHYS499 | Nanoscale Physics and Technology | 7.5 | 7 | 2a |
| PHYS482 | Physics of Life | 7.5 | 7 | 2b |
| PHYS490 | Advanced Nuclear Physics | 15 | 7 | 2 |
| PHYS492 | Neutrinos and Dark Matter | 7.5 | 7 | 2a |
| PHYS493 | Advanced Particle Physics | 15 | 7 | 2 |
| PHYS483 | Stellar Populations (requires PHYS251/351) | 15 | 7 | 1 |
| PHYS484 | Elements of Stellar Dynamics | 7.5 | 7 | 1a |
| PHYS485 | Physics of the Radiative Universe | 15 | 7 | 2 |
| PHYS453 | Time Domain Astrophysics (requires PHYS251/351) | 7.5 | 7 | 2a |
| PHYS392 | Statistics for Physics Analysis (2019/20 only) | 15 | 6 | 1 |
| **Total Credits** | | **120** |  |  |

F300 BSc Physics Year 1 2019/20

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Code** | **Name** | **Credits** | Level | Semester |
| PHYS101 | Newtonian Dynamics | 15 | 4 | 1 |
| PHYS102 | Thermal Physics and Properties of Matter | 15 | 4 | 1 |
| PHYS103 | Wave Phenomena | 15 | 4 | 2 |
| PHYS104 | Foundations of Modern Physics | 15 | 4 | 2 |
| PHYS105 | Introduction to Computational Physics | 7.5 | 4 | 1 |
| PHYS106 | Practical Physics I | 15 | 4 | 1+2 |
| PHYS107 | Maths for Physicists I | 15 | 4 | 1 |
| PHYS108 | Maths for Physicists II | 15 | 4 | 2 |
| ***+ 7.5 credits from:*** | | | | |
| PHYS115 | Introduction to Medical Physics | 7.5 | 4 | 2a |
| PHYS135 | Introduction to Nuclear Science | 7.5 | 4 | 2a |
| PHYS155 | Introduction to Astrophysics | 7.5 | 4 | 2a |
| PHYS165 | Introduction to Physics for Education | 7.5 | 4 | 2a |
| **Total Credits** | | **120** |  |  |

F300 BSc Physics Year 2 2019/20

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Code** | **Name** | **Credits** | Level | Semester |
| PHYS201 | Electromagnetism I | 15 | 5 | 1 |
| PHYS202 | Condensed Matter Physics | 15 | 5 | 2 |
| PHYS203 | Quantum and Atomic Physics I | 15 | 5 | 1 |
| PHYS204 | Nuclear and Particle Physics | 15 | 5 | 2 |
| PHYS205 | Computational Physics | 15 | 5 | 1+2 |
| PHYS206 | Practical Physics II | 15 | 5 | 1+2 |
| PHYS207 | Maths for Physicists III | 15 | 5 | 1 |
| ***+ 15 credits from:*** | | | | |
| PHYS208 | Maths for Physicists IV | 15 | 5 | 2 |
| PHYS246 | Accelerators & Radioisotopes in Medicine | 15 | 5 | 2 |
| PHYS251 | Stellar Physics | 15 | 5 | 2 |
| **Total Credits** | | **120** |  |  |

F300 BSc Physics Year 3 2019/20

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Code** | **Name** | **Credits** | **Level** | **Semester** |
| PHYS306 | Practical Physics III | 15 | 6 | 1 |
| PHYS379 | Project | 15 | 6 | 2 |
| PHYS361 | Quantum and Atomic Physics II | 15 | 6 | 1 |
| PHYS370 | Electromagnetism II | 15 | 6 | 2 |
| PHYS393 | Statistical Physics | 7.5 | 6 | 1b |
| ***Options: 52.5 credits from:- (S1/S2 imbalance must be no more than 15 credits)*** | | | | |
| PHYS309 | Research Internship | 15 | 6 | - |
| PHYS305 | Computational Modelling | 15 | 6 | 2 |
| PHYS375 | Nuclear Physics | 7.5 | 6 | 1a |
| PHYS377 | Particle Physics | 7.5 | 6 | 2a |
| PHYS363 | Solid State Physics | 7.5 | 6 | 1a |
| PHYS387 | Material Physics and Characterization | 7.5 | 6 | 1a |
| PHYS381 | Surfaces and Interfaces | 7.5 | 6 | 2a |
| PHYS399 | Magnetic Properties of Solids | 7.5 | 6 | 2b |
| PHYS389 | Semiconductor Applications | 7.5 | 6 | 1b |
| PHYS392 | Statistics for Physics Analysis | 15 | 6 | 1 |
| PHYS372 | Energy Generation and Storage | 7.5 | 6 | 2b |
| PHYS376 | Nuclear Power | 7.5 | 6 | 2a |
| PHYS384 | Medical Applications | 15 | 6 | 2 |
| PHYS321 | Physics of Sound and Music | 7.5 | 6 | 2b |
| PHYS355 | Planetary Physics | 7.5 | 6 | 2b |
| PHYS373 | Physics of Galaxies | 15 | 6 | 1 |
| PHYS374 | Relativity and Cosmology | 15 | 6 | 2 |
| PHYS246 | Accelerators & Radioisotopes in Medicine (2019/20 only) | 15 | 5 | 2 |
| PHYS251 | Stellar Physics (2019/20 only) | 15 | 5 | 2 |
| **Total Credits** | | **120** |  |  |

F390 BSc Physics with Nuclear Science Year 1 2019/20

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Code** | **Name** | **Credits** | Level | Semester |
| PHYS101 | Newtonian Dynamics | 15 | 4 | 1 |
| PHYS102 | Thermal Physics and Properties of Matter | 15 | 4 | 1 |
| PHYS103 | Wave Phenomena | 15 | 4 | 2 |
| PHYS104 | Foundations of Modern Physics | 15 | 4 | 2 |
| PHYS105 | Introduction to Computational Physics | 7.5 | 4 | 1 |
| PHYS106 | Practical Physics I | 15 | 4 | 1+2 |
| PHYS107 | Maths for Physicists I | 15 | 4 | 1 |
| PHYS108 | Maths for Physicists II | 15 | 4 | 2 |
| PHYS135 | Introduction to Nuclear Science | 7.5 | 4 | 2a |
| **Total Credits** | | **120** |  |  |

F390 BSc Physics with Nuclear Science Year 2 2019/20

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Code** | **Name** | **Credits** | Level | Semester |
| PHYS201 | Electromagnetism I | 15 | 5 | 1 |
| PHYS202 | Condensed Matter Physics | 15 | 5 | 2 |
| PHYS203 | Quantum and Atomic Physics I | 15 | 5 | 1 |
| PHYS204 | Nuclear and Particle Physics | 15 | 5 | 2 |
| PHYS205 | Computational Physics | 15 | 5 | 1+2 |
| PHYS206 | Practical Physics II | 15 | 5 | 1+2 |
| PHYS207 | Maths for Physicists III | 15 | 5 | 1 |
| PHYS246 | Accelerators & Radioisotopes in Medicine | 15 | 5 | 2 |
| **Total Credits** | | **120** |  |  |

F390 BSc Physics with Nuclear Science Year 3 2019/20

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Code** | **Name** | **Credits** | **Level** | **Semester** |
| PHYS380 | Radiation Physics Advanced Practical | 7.5 | 6 | 1a |
| PHYS398 | Nuclear Science Project | 30 | 6 | 1+2 |
| PHYS361 | Quantum and Atomic Physics II | 15 | 6 | 1 |
| PHYS370 | Electromagnetism II | 15 | 6 | 2 |
| PHYS393 | Statistical Physics | 7.5 | 6 | 1b |
| PHYS375 | Nuclear Physics | 7.5 | 6 | 1a |
| PHYS376 | Nuclear Power | 7.5 | 6 | 2a |
| ***Options: 30 credits from:- (S1/S2 imbalance must be no more than 15 credits)*** | | | | |
| PHYS309 | Research Internship | 15 | 6 | - |
| PHYS305 | Computational Modelling | 15 | 6 | 2 |
| PHYS377 | Particle Physics | 7.5 | 6 | 2a |
| PHYS363 | Solid State Physics | 7.5 | 6 | 1a |
| PHYS387 | Material Physics and Characterization | 7.5 | 6 | 1a |
| PHYS381 | Surfaces and Interfaces | 7.5 | 6 | 2a |
| PHYS399 | Magnetic Properties of Solids | 7.5 | 6 | 2b |
| PHYS389 | Semiconductor Applications | 7.5 | 6 | 1b |
| PHYS392 | Statistics for Physics Analysis | 15 | 6 | 1 |
| PHYS372 | Energy Generation and Storage | 7.5 | 6 | 2b |
| PHYS384 | Medical Applications | 15 | 6 | 2 |
| PHYS321 | Physics of Sound and Music | 7.5 | 6 | 2b |
| PHYS355 | Planetary Physics | 7.5 | 6 | 2b |
| PHYS373 | Physics of Galaxies | 15 | 6 | 1 |
| PHYS374 | Relativity and Cosmology | 15 | 6 | 2 |
| **Total Credits** | | **120** |  |  |

F350 BSc Physics with Medical Applications Year 1 2019/20

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Code** | **Name** | **Credits** | Level | Semester |
| PHYS101 | Newtonian Dynamics | 15 | 4 | 1 |
| PHYS102 | Thermal Physics and Properties of Matter | 15 | 4 | 1 |
| PHYS103 | Wave Phenomena | 15 | 4 | 2 |
| PHYS104 | Foundations of Modern Physics | 15 | 4 | 2 |
| PHYS105 | Introduction to Computational Physics | 7.5 | 4 | 1 |
| PHYS106 | Practical Physics I | 15 | 4 | 1+2 |
| PHYS107 | Maths for Physicists I | 15 | 4 | 1 |
| PHYS108 | Maths for Physicists II | 15 | 4 | 2 |
| PHYS115 | Introduction to Medical Physics | 7.5 | 4 | 2a |
| **Total Credits** | | **120** |  |  |

F350 BSc Physics with Medical Applications Year 2 2019/20

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Code** | **Name** | **Credits** | Level | Semester |
| PHYS201 | Electromagnetism I | 15 | 5 | 1 |
| PHYS202 | Condensed Matter Physics | 15 | 5 | 2 |
| PHYS203 | Quantum and Atomic Physics I | 15 | 5 | 1 |
| PHYS204 | Nuclear and Particle Physics | 15 | 5 | 2 |
| PHYS205 | Computational Physics | 15 | 5 | 1+2 |
| PHYS206 | Practical Physics II | 15 | 5 | 1+2 |
| PHYS207 | Maths for Physicists III | 15 | 5 | 1 |
| PHYS246 | Accelerators & Radioisotopes in Medicine | 15 | 5 | 2 |
| **Total Credits** | | **120** |  |  |

F350 BSc Physics with Medical Applications Year 3 2019/20

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Code** | **Name** | **Credits** | **Level** | **Semester** |
| PHYS380 | Radiation Physics Advanced Practical | 7.5 | 6 | 1a |
| PHYS386 | Medical Physics Project | 30 | 6 | 1+2 |
| PHYS361 | Quantum and Atomic Physics II | 15 | 6 | 1 |
| PHYS370 | Electromagnetism II | 15 | 6 | 2 |
| PHYS393 | Statistical Physics | 7.5 | 6 | 1b |
| PHYS384 | Medical Applications | 15 | 6 | 2 |
| ***Options: 30 credits from:- (S1/S2 imbalance must be no more than 15 credits)*** | | | | |
| PHYS309 | Research Internship | 15 | 6 | - |
| PHYS305 | Computational Modelling | 15 | 6 | 2 |
| PHYS375 | Nuclear Physics | 7.5 | 6 | 1a |
| PHYS377 | Particle Physics | 7.5 | 6 | 2a |
| PHYS363 | Solid State Physics | 7.5 | 6 | 1a |
| PHYS387 | Material Physics and Characterization | 7.5 | 6 | 1a |
| PHYS381 | Surfaces and Interfaces | 7.5 | 6 | 2a |
| PHYS399 | Magnetic Properties of Solids | 7.5 | 6 | 2b |
| PHYS389 | Semiconductor Applications | 7.5 | 6 | 1b |
| PHYS392 | Statistics for Physics Analysis | 15 | 6 | 1 |
| PHYS372 | Energy Generation and Storage | 7.5 | 6 | 2b |
| PHYS376 | Nuclear Power | 7.5 | 6 | 2a |
| PHYS321 | Physics of Sound and Music | 7.5 | 6 | 2b |
| PHYS355 | Planetary Physics | 7.5 | 6 | 2b |
| PHYS373 | Physics of Galaxies | 15 | 6 | 1 |
| PHYS374 | Relativity and Cosmology | 15 | 6 | 2 |
| **Total Credits** | | **120** |  |  |

F521 MPhys Astrophysics Year 1 2019/20

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Code** | **Name** | **Credits** | Level | Semester |
| PHYS101 | Newtonian Dynamics | 15 | 4 | 1 |
| PHYS102 | Thermal Physics and Properties of Matter | 15 | 4 | 1 |
| PHYS103 | Wave Phenomena | 15 | 4 | 2 |
| PHYS104 | Foundations of Modern Physics | 15 | 4 | 2 |
| PHYS105 | Introduction to Computational Physics | 7.5 | 4 | 1 |
| PHYS106 | Practical Physics I | 15 | 4 | 1+2 |
| PHYS107 | Maths for Physicists I | 15 | 4 | 1 |
| PHYS108 | Maths for Physicists II | 15 | 4 | 2 |
| PHYS155 | Introduction to Astrophysics | 7.5 | 4 | 2a |
| **Total Credits** | | **120** |  |  |

F521 MPhys Astrophysics Year 2 2019/20

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Code** | **Name** | **Credits** | Level | Semester |
| PHYS201 | Electromagnetism I | 15 | 5 | 1 |
| PHYS202 | Condensed Matter Physics | 15 | 5 | 2 |
| PHYS203 | Quantum and Atomic Physics I | 15 | 5 | 1 |
| PHYS204 | Nuclear and Particle Physics | 15 | 5 | 2 |
| PHYS205 | Computational Physics | 15 | 5 | 1+2 |
| PHYS216 | Practical Astrophysics I | 15 | 5 | 1+2 |
| PHYS207 | Maths for Physicists III | 15 | 5 | 1 |
| PHYS251 | Stellar Physics | 15 | 5 | 2 |
| **Total Credits** | | **120** |  |  |

F521 MPhys Astrophysics Year 3 2019/20

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Code** | **Name** | **Credits** | **Level** | **Semester** |
| PHYS361 | Quantum and Atomic Physics II | 15 | 6 | 1 |
| PHYS370 | Electromagnetism II | 15 | 6 | 2 |
| PHYS393 | Statistical Physics | 7.5 | 6 | 1b |
| PHYS373 | Physics of Galaxies | 15 | 6 | 1 |
| PHYS374 | Relativity and Cosmology | 15 | 6 | 2 |
| PHYS251 | Stellar Physics (2019/20 only) | 15 | 5 | 2 |
| ***Options: 15 credits from:- (S1/S2 imbalance must be no more than 15 credits)*** | | | | |
| PHYS305 | Computational Modelling | 15 | 6 | 2 |
| PHYS394 | Practical Astrophysics II | 15 | 6 | 1 |
| ***Options: 15 credits from:- (S1/S2 imbalance must be no more than 15 credits)*** | | | | |
| PHYS309 | Research Internship | 15 | 6 | - |
| PHYS362 | Advanced Observational Astrophysics | 15 | 6 | 1 |
| ***Options: 7.5 credits from:- (S1/S2 imbalance must be no more than 15 credits)*** | | | | |
| PHYS375 | Nuclear Physics | 7.5 | 6 | 1a |
| PHYS377 | Particle Physics | 7.5 | 6 | 2a |
| PHYS363 | Solid State Physics | 7.5 | 6 | 1a |
| PHYS387 | Material Physics and Characterization | 7.5 | 6 | 1a |
| PHYS381 | Surfaces and Interfaces | 7.5 | 6 | 2a |
| PHYS399 | Magnetic Properties of Solids | 7.5 | 6 | 2b |
| PHYS389 | Semiconductor Applications | 7.5 | 6 | 1b |
| PHYS372 | Energy Generation and Storage | 7.5 | 6 | 2b |
| PHYS376 | Nuclear Power | 7.5 | 6 | 2a |
| PHYS321 | Physics of Sound and Music | 7.5 | 6 | 2b |
| PHYS355 | Planetary Physics | 7.5 | 6 | 2b |
| **Total Credits** | | **120** |  |  |

F521 MPhys Astrophysics Year 4 2019/20

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Code** | **Name** | **Credits** | Level | Semester |
| PHYS498 | (Astrophysics) Project (MPhys) | 30 | 7 | 1 + 2 |
| PHYS494 | Computational Astrophysics (19/20 & 20/21) | 15 | 7 | 1 |
| ***Options: 75 credits from… (S1/S2 imbalance must be no more than 15 credits)*** | | | | |
| PHYS470 | Classical Mechanics | 15 | 7 | 1 |
| PHYS480 | Advanced Quantum Physics | 15 | 7 | 1 |
| PHYS481 | Accelerator Physics | 7.5 | 7 | 1b |
| PHYS497 | Magnetic Structure and Function (2019/20 only) | 7.5 | 7 | 1a |
| PHYS499 | Nanoscale Physics and Technology | 7.5 | 7 | 2a |
| PHYS482 | Physics of Life | 7.5 | 7 | 2b |
| PHYS490 | Advanced Nuclear Physics | 15 | 7 | 2 |
| PHYS492 | Neutrinos and Dark Matter | 7.5 | 7 | 2a |
| PHYS493 | Advanced Particle Physics | 15 | 7 | 2 |
| PHYS483 | Stellar Populations | 15 | 7 | 1 |
| PHYS484 | Elements of Stellar Dynamics | 7.5 | 7 | 1a |
| PHYS485 | Physics of the Radiative Universe | 15 | 7 | 2 |
| PHYS453 | Time Domain Astrophysics | 7.5 | 7 | 2a |
| PHYS495 | The Interstellar Medium | 15 | 7 | 2 |
| PHYS392 | Statistics for Physics Analysis (if PHYS488 taken in Y3) | 15 | 6 | 1 |
| **Total Credits** | | **120** |  |  |

F3F5 BSc Physics with Astronomy Year 1 2019/20

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Code** | **Name** | **Credits** | Level | Semester |
| PHYS101 | Newtonian Dynamics | 15 | 4 | 1 |
| PHYS102 | Thermal Physics and Properties of Matter | 15 | 4 | 1 |
| PHYS103 | Wave Phenomena | 15 | 4 | 2 |
| PHYS104 | Foundations of Modern Physics | 15 | 4 | 2 |
| PHYS105 | Introduction to Computational Physics | 7.5 | 4 | 1 |
| PHYS106 | Practical Physics I | 15 | 4 | 1+2 |
| PHYS107 | Maths for Physicists I | 15 | 4 | 1 |
| PHYS108 | Maths for Physicists II | 15 | 4 | 2 |
| PHYS155 | Introduction to Astrophysics | 7.5 | 4 | 2a |
| **Total Credits** | | **120** |  |  |

F3F5 BSc Physics with Astronomy Year 2 2019/20

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Code** | **Name** | **Credits** | Level | Semester |
| PHYS201 | Electromagnetism I | 15 | 5 | 1 |
| PHYS202 | Condensed Matter Physics | 15 | 5 | 2 |
| PHYS203 | Quantum and Atomic Physics I | 15 | 5 | 1 |
| PHYS204 | Nuclear and Particle Physics | 15 | 5 | 2 |
| PHYS205 | Computational Physics | 15 | 5 | 1+2 |
| PHYS216 | Practical Astrophysics I | 15 | 5 | 1+2 |
| PHYS207 | Maths for Physicists III | 15 | 5 | 1 |
| PHYS251 | Stellar Physics | 15 | 5 | 2 |
| **Total Credits** | | **120** |  |  |

F3F5 BSc Physics with Astronomy Year 3 2019/20

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Code** | **Name** | **Credits** | **Level** | **Semester** |
| PHYS379 | (Astrophysics) Project | 15 | 6 | 2 |
| PHYS361 | Quantum and Atomic Physics II | 15 | 6 | 1 |
| PHYS370 | Electromagnetism II | 15 | 6 | 2 |
| PHYS393 | Statistical Physics | 7.5 | 6 | 1b |
| PHYS374 | Relativity and Cosmology | 15 | 6 | 2 |
| PHYS251 | Stellar Physics (2019/20 only) | 15 | 5 | 2 |
| ***Options: 15 credits from:- (S1/S2 imbalance must be no more than 15 credits)*** | | | | |
| PHYS309 | Research Internship | 15 | 6 | - |
| PHYS373 | Physics of Galaxies | 15 | 6 | 1 |
| ***Options: 22.5 credits from:- (S1/S2 imbalance must be no more than 15 credits)*** | | | | |
| PHYS305 | Computational Modelling | 15 | 6 | 2 |
| PHYS375 | Nuclear Physics | 7.5 | 6 | 1a |
| PHYS377 | Particle Physics | 7.5 | 6 | 2a |
| PHYS363 | Solid State Physics | 7.5 | 6 | 1a |
| PHYS387 | Material Physics and Characterization | 7.5 | 6 | 1a |
| PHYS381 | Surfaces and Interfaces | 7.5 | 6 | 2a |
| PHYS399 | Magnetic Properties of Solids | 7.5 | 6 | 2b |
| PHYS389 | Semiconductor Applications | 7.5 | 6 | 1b |
| PHYS372 | Energy Generation and Storage | 7.5 | 6 | 2b |
| PHYS376 | Nuclear Power | 7.5 | 6 | 2a |
| PHYS321 | Physics of Sound and Music | 7.5 | 6 | 2b |
| PHYS355 | Planetary Physics | 7.5 | 6 | 2b |
| PHYS362 | Advanced Observational Astrophysics | 15 | 6 | 1 |
| PHYS394 | Practical Astrophysics II | 15 | 6 | 1 |
| **Total Credits** | | **120** |  |  |