PHYS + SPCE: DOUBLE MAJOR EXAMPLE*

Excellent preparation for a career in the growing space industry

YEAR 1

T1	**PHYS145** | 15 points Practical Skills for Scientists: Applications in Physics	**PHYS101** | 15 points Introduction to Physics may be required for PHYS142/MATH142	**SPCE101** | 15 points Introduction to Space Science	**COMP102** | 15 points Introduction to Computer Program Design
T2	**PHYS142** | 15 points Calculus-based physics	**MATH142** | 15 points Calculus 1B	**SPCE102** | 15 points Introduction to the Universe	**MATH151** | 15 points Algebra

YEAR 2

T1	**PHYS243** | 15 points Classical Mechanics and Relativity	**PHYS245** | 15 points Methods of Experimental Physics or SPCE245: Experiments in Space Science	**AIML231** | 15 points Techniques in Machine Learning	**MATH244** | 15 points Ordinary Differential Equations
T2	**PHYS241** | 15 points Quantum Mechanics and Kinetic Theory	**PHYS242** | 15 points Electromagnetism I	**SPCE201** | 15 points Our Dynamic Space Neighbourhood	**GEOG215** | 20 points Intro. to Geographic Information Systems (GIS) and Science

YEAR 3

T1	**PHYS305** | 15 points Thermal and Statistical Physics	**PHYS307** | 15 points Quantum Physics	**SPCE301** | 15 points Challenges and Solutions for Space Systems	**SPCE360** | 15 points Topics in Space Science or SCIS311: Science Communication
T2	**PHYS304** | 15 points Electromagnetism and Wave Optics	**PHYS345** | 15 points Advanced Methods of Experimental Physics	**GEOG315** | 20 points Advanced GIS: Spatial Data Science	**MATH321** | 15 points Introduction to Applied Mathematics

*: For full details on degree requirements visit: https://www.wgtn.ac.nz/explore/degrees/science/requirements?major=physics&otherMajor=space-science