

Mathematical Physics

Program Coordinators

Chair of the Department of Mathematics

W. Feng, BSc (Hebei), MSc (Shaanxi), PhD (Glasgow)

Chair of the Department of Physics & Astronomy

R. Wortis, BSc (Harvard), MSc, PhD (Illinois)

Professors

See faculty listings in Mathematics and in Physics & Astronomy

Physics is the most fundamental of the natural sciences, and mathematics is the language of physics. This program develops, in parallel, experience with the central theoretical frameworks of physics and facility with the mathematical methods which form the foundation and tools of physics.

Bachelor of Science Program in Mathematical Physics

- In addition to the program requirements listed below, students must satisfy the University degree requirements (see [p. 15](#)).
- The Honours program in Mathematical Physics is a sequence of courses that compose an integrated whole and are offered by the Departments of Mathematics and Physics & Astronomy.
- For information on individual courses see Calendar entries for Mathematics, Physics & Astronomy, and Computing & Information Systems.

The single-major Honours program. 20.0 credits including the following 14.0 credits:

- 4.0 MATH credits consisting of MATH 1110H and 1120H (or 1100Y or 1101Y), 1350H, 1550H, 2110H, 2120H, 2350H, and 3770H
- 2.5 MATH-PHYS credits consisting of MATH-PHYS 2150H, 3130H, 3150H, 3160H, and 4140H (or 3140H)
- 5.5 PHYS credits consisting of PHYS 1001H and 1002H (or 1000Y), 2610H, 2620H, 2700H, 3200Y, 3610H and 4610H (or 4600Y), 4220H, and 4700H
- 0.5 COIS credit consisting of COIS 1020H
- 0.5 MATH credit from MATH 2570H (or 3570H), 3560H, 4120H, or 4180H
- 0.5 PHYS credit from PHYS 4050H, 4240H, 4310H, 4410H, or 4520H
- 0.5 credit from MATH-COIS 3180H (or 2180H) or PHYS-COIS 2310H