

McGill Honours in Physics

Fall U1

MATH 248
Hon. Advanced Calculus

Prereq. MATH 133 and MATH 222

PHYS 260
Modern Physics and Relativity

Prereq. PHYS 142 and MATH 222

PHYS 251
Hon. Classical Mechanics 1

Prereq. PHYS 131 and MATH 222

PHYS 257
Experimental Methods 1

Coreq. PHYS 251

Winter U1

MATH 249
Hon. Complex Variables

Prereq. MATH 248

MATH 325
Hon. ODEs

Prereq. MATH 222

MATH 247
Hon. Applied Linear Algebra

Prereq. MATH 133

PHYS 241
Signal Processing

Prereq. PHYS 142

PHYS 258
Experimental Methods 2

Prereq. PHYS 257

Fall U2

MATH 475
Hon. PDEs

Prereq. MATH 247, MATH 248 and MATH 325

PHYS 253
Thermal Physics

Prereq. PHYS 131, MATH 222, and CHEM 120

PHYS 350
Hon. Electricity and Magnetism

Prereq. MATH 248 and MATH 325

PHYS 357
Hon. Quantum Physics 1

Prereq. MATH 247 and PHYS 251

Winter U2

PHYS 362
Statistical Mechanics

Prereq. MATH 248 and PHYS 253

PHYS 351
Hon. Classical Mechanics 2

Prereq. PHYS 251

PHYS 457
Hon. Quantum Physics 2

Prereq. PHYS 357

1 of:
PHYS 359 Adv. Physics Lab 1 (winter)

OR

PHYS 469 Adv. Physics Lab 2 (fall)

Fall U3

6 courses selected from:

PHYS 404 Climate Physics
PHYS 434 Optics
PHYS 512 Computational Physics
PHYS 521 Astrophysics
PHYS 534 Nanoscience & Nanotechnology
PHYS 551 Quantum Theory
PHYS 557 Nuclear Physics
PHYS 558 Solid State
PHYS 559 Adv. Stat Mech

PHYS 352
Hon. Electromagnetic Waves

Prereq. PHYS 350

Winter U3

PHYS 432 Fluids
PHYS 514 General Relativity
PHYS 519 Adv. Biophysics
PHYS 562 Electrodynamics
PHYS 567 Particle Physics

2 courses (6 cr) from:

*PHYS 359 Adv. Physics Lab 1

*PHYS 469 Adv. Physics Lab 2

^PHYS 459D1 Research Thesis

^PHYS 459D2 Research Thesis

PHYS 479 Physics Research Project

*Students may not choose the lab used to meet the PHYS 359 or 469 requirement.

^ PHYS 459D1 and D2 must be taken together.