McGill Honours in Physics

Entering without MATH 222

MATH 222

Calculus 3

Prereq. MATH 141 and MATH 133

PHYS 260

Modern Physics and Relativity

Prereq. PHYS 142 Coreq. MATH 222

PHYS 251

Hon. Classical Mechanics 1

Prereq. PHYS 131 Coreq. MATH 222

PHYS 257

Experimental Methods 1

Coreq. PHYS 251

MATH 314

Adv. Calculus

Prereq. MATH 133 and MATH 222

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

MATH 475

Hon. PDEs

Prereq. MATH 247, MATH 314 and **MATH 325**

PHYS 253

Thermal Physics

Prereq. PHYS 131, MATH 222 and **CHEM 120**

PHYS 350

Hon. Electricity and Magnetism

Prereq. MATH 314 and MATH 325

PHYS 357

Hon. Quantum Physics 1

Prereq. MATH 247 and PHYS 251

MATH 249

Hon. Complex Variables

Prereq. MATH 314

PHYS 362

Statistical Mechanics

Prereq. MATH 314 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)

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 432 Fluids PHYS 514 General Relativity

PHYS 519 Adv. Biophysics

PHYS 562 Electrodynamics PHYS 567 Particle Physics

PHYS 352

Waves

Hon. Electromagnetic

Prereq. PHYS 350

2 courses (6 cr) from:

*PHYS 359 Adv. Physics Lab 1

*PHYS 469 Adv. Physics

^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.