Pre-requisites:

- Single variable calculus (≈ MATH 1010/1018)
- Linear algebra (≈ MATH 1030/1038)
- Proof techniques (MATH 1050/1058)
- Differential multivarible calculus (= MATH 2010/2018)

What you will learn in MATH 2028:

- Multiple integrals in IR
- Fubini's Thm & Change of variable formula
- def'2 of \$\int_D\$, \$\int_D\$ f

 and how to compute
 these integrals
- vector fields & ector fields & grad, curl & div
 differential forms \ W = dx Ady - dy Adz
- integration over submanifolds) and [w
- "Generalized" Stokes' Thm \int Green's, Stokes', Divergence and applications $\int \omega = \int d\omega$