# Everything you need to know about MAT137

This course assumes a good amount of precalculus knowledge that I will not cover, but mention:

* Sets (what it is, operations on sets, relations)
* Numbers and inequalities (order relation, intervals)
* Quantifiers and logic (predicate logic, implications, relations to sets)
* Functions (roots, ratios, pieces, and their properties, implicit function, injective/surjective)
* Polynomials (factorizing, binomial theorem, completing square, division, partial fractions, inequalities)
* Absolute values (relation to intervals, and algebraic manipulation)
* Trigonometry (degree vs. radians, relation to circles and triangles, inverse trig)
* Exponents and logarithm

This course also assumes you know some about proofs.

# the order of the sheets

I’ve created many sheet’s entitled EYNTKA. This is the order in which they should be read:

1. MAT137 – EYTNKA Limit
2. MAT137 – EYTNKA Derivatives
3. MAT137 – EYTNKA squeeze theorem
4. MAT137 – EYTNKA existence theorems
5. MAT137 – EYTNKA Supremum and infimum
6. MAT137 – EYTNKA Integrability
7. MAT137 – EYTNKA application of integration
8. MAT137 – EYTNKA Volumes
9. MAT137 – EYTNKA Sequences and Series
10. MAT137 – EYTNKA Power and Taylor Series

It is optional to switch around 9 and 1. Some countries do that.

I would also recommend to check out

* EYTNKA integrals to tricks
* EYNTKA formulas to remember