

## Undergraduate Committee Meeting Agenda, 171020

- Confessions of a noob.
  - Go over the departmental council meeting materials.
  - A third admin position.
  - Our service courses are **huge**. We need a fourth admin position!
  - A Quantitative Biology program.
  - Limited enrolment in Stats.
  - PEYs / Internships.
  - Some strange pre-requisites:
    - MAT 351 PDE requires only MAT267 ODE, which has a co-requisite of MAT257 Analysis II. Shouldn't MAT351 also require MAT257?
    - MAT347 Groups Rings Fields requires MAT257 Analysis II. Why?
    - Is it rational that MAT157 excludes MAT246?
    - A pre-requisites issue in our Econ and Finance specialist program – STA457 is required in year 4. It has a prerequisite STA302, but in year 3 we only require “STA302/ECO375”.
- Should we form a 2-3-person subcommittee to look into these and make some recommendations? Dietrich? Vitali? A student?
- U of T's Teaching Excellence and Student Learning Awards. Set up a 2-3-person subcommittee? Henry? Askold? A student?
  - Split off academic integrity from my duties? Pre-requisites and waivers?

**Riddle.**  $2^n$  yellow unit balls are centered at the vertices of the  $n$ -dimensional cube  $\{-1, 1\}^n$ . Let  $B_n$  be the largest blue ball centered at 0 bound by the yellow balls, and let  $C_n$  be the smallest red cube bounding the yellow balls. Compute  $\lim_{n \rightarrow \infty} \frac{\text{Vol}(B_n)}{\text{Vol}(C_n)}$ .

```
Graphics3D[{
  Red, Opacity[0.2], Cuboid[{-2, -2, -2}, {2, 2, 2}],
  Yellow, Opacity[0.5], Table[Sphere[c, 1], {c, Tuples[{1, -1}, 3]}],
  Blue, Opacity[1], Sphere[{0, 0, 0}, Sqrt[3] - 1]
}, Boxed -> False]
```

