

AT731 – Spring 2024 – Homework #3

Due by March 4, 2024 @ 6:00PM EST (UNIX 1708813732)

- Using Makeham's Law with parameters

$$A=0.0001234; B=0.000004; c=1.122$$

- Add columns to your prior homework for $p_{[x]}$, $q_{[x]}$, $\ell_{[x]}$, and $e_{[x]}$ that reflect a 2-year "Select and Ultimate" adjustment:

$$q_{[x]}=0.5 q_x$$

$$q_{[x]+1}=0.75 q_{x+1}$$

- Use $\omega=120$ in your calculation of life expectancy

You can use any software to perform this calculation, but I recommend Excel.