

In order to maximize passing put one blue marble in one jar and all the other 99 marbles in the second jar.

Chances of retaking the course = $1 - (50\% \times 1 \text{ blue} / 1 \text{ blue} + 50\% \times 49 \text{ blue} / (49 \text{ blue} + 50 \text{ red})) =$

$= 1 - .747474\dots$

$= .25252525\dots$ or 25.252525... % of repeating the course

You math guys at USMA are rough.