

Extra Credit – Availability and Methodology

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- Normatively, not needed!
 - We are Fair~!
 - Most would scoff at the request
- Realities
 - Test-taking skills
 - Illness
 - Unfamiliar paradigm
- Can Believe the “*TRU*” ability
- Actually can do productive work for the class, instructor(s) & the student

- Type of Extra Credit (EC)
 - Assignment Extra Credit
 - Exam Extra Credit
 - Course Extra Credit

- Setup
 - D = Total points in assignment
 - N = total points earned
 - S = Earned score = N/D
- “Worth 10 points Extra Credit”
 - Actually is “Worth $p \cdot D$ points...”
 - Usually seen on exams
 - Asymmetric Windfall to student
- “Worth 10% Extra Credit”
 - Symmetric Windfall to student

“ $p \cdot D$ points Extra Credit”

$$N_1 = N + pD$$

$$S_1 = \frac{N_1}{D} = \frac{1}{D}(N + pD) = S + p$$

$$W_1 = \frac{S_1}{S} = \frac{N_1 D}{D N} = \frac{N_1}{N}$$

$$= \frac{N + pD}{N} = 1 + p \left(\frac{1}{S} \right)$$

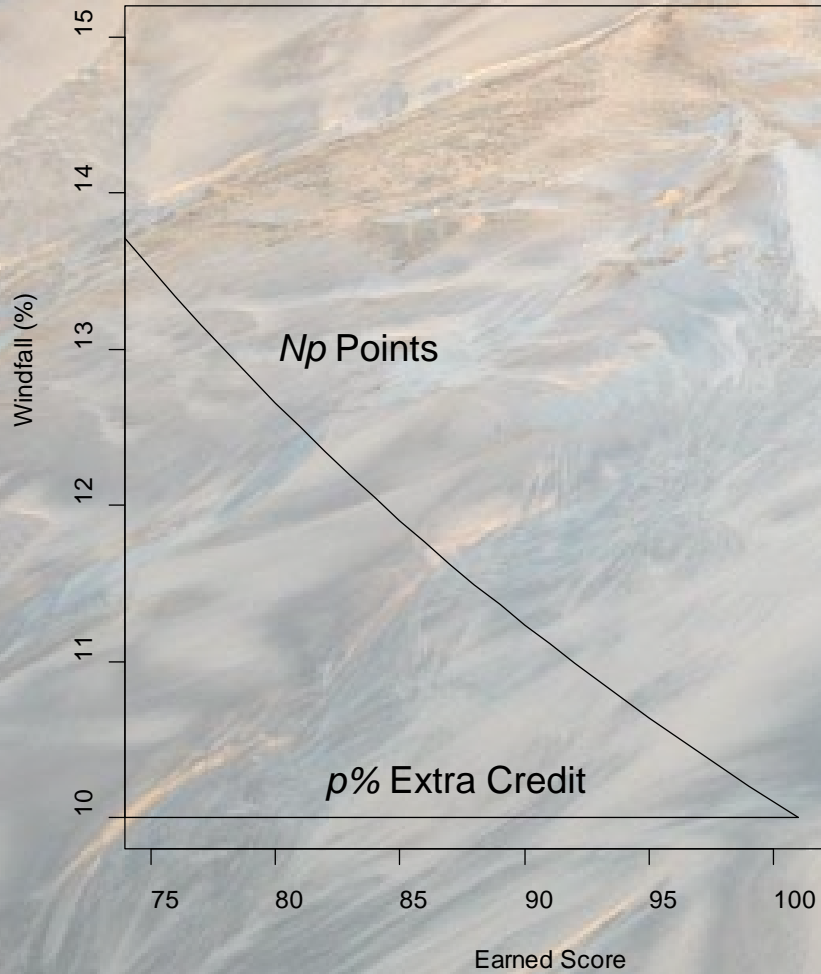
“ $p\%$ Extra Credit”

$$N_2 = N(1 + p) = N + Np$$

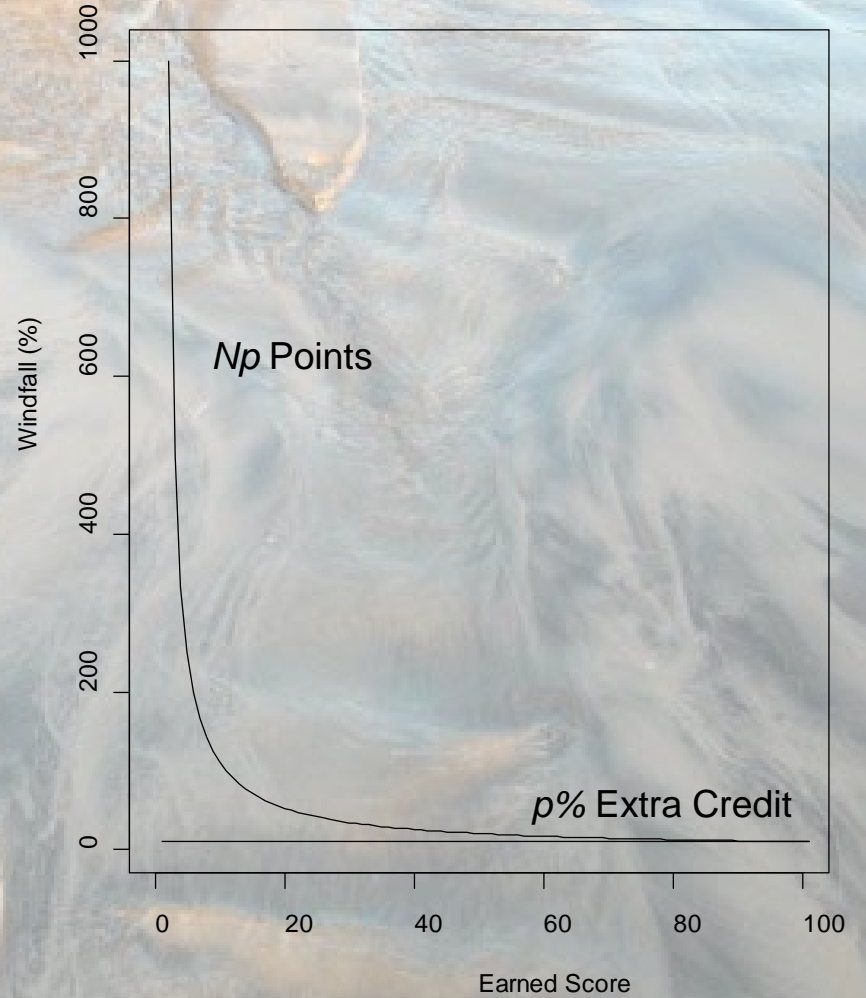
$$S_2 = \frac{N_2}{D} = S \cdot (1 + p)$$

$$W_2 = \frac{S_2}{S} = \frac{N_2}{N} = (1 + p)$$

Windfall Percent to Student



Windfall Percent to Student



Hope you Won't
Need it!