

Module 3 – (ch11) Optimal Portfolio Choice and the Capital Asset Pricing Model

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Note: This summary will be delivered in printed form only. No PDF version is available.

Overview: This summary covers the key points from Ch. 11 of Berk & DeMarzo.

1) Expected Return vs. Volatility of Portfolios

Return = weighted average. Weights depend on prices. Diversification reduces volatility when assets are imperfectly correlated. In large portfolios, variance is mainly driven by covariances.

2) Efficient Portfolios

Definition: highest expected return for a given risk, or lowest risk for a given return. Attention: Efficient frontier, minimum variance portfolio, and diversification benefits.

3) Risk-Free Asset and Borrowing/Lending

Combining risky portfolios with the risk-free rate. CML and tangent portfolio. Sharpe ratio as the measure of efficiency.

4) Capital Asset Pricing Model (CAPM)

Remember assumptions: frictionless markets, homogeneous expectations, borrow/lend at Rf, etc. Takeaway: All investors hold the market portfolio + risk-free asset. Security Market Line (SML) links beta to expected return.

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