

ECOS2002: Final Exam Notes

Chapter 2: Intro

2.1 Aggregate output

- Measured through GDP
 - Value of final G&S produced in economy during period (not intermediate) (final goods method) – revenue from sales
 - Sum of value added in economy during period (value of production minus intermediate good for all firms)
 - Sum of incomes in economy during period (wages + profit + indirect taxes and subsidies – govt. income)
- Nominal GDP: sum of quantities (final good) x current prices
 - Increases over times as price and production increases over time
- Real GDP: x constant prices
- GDP Growth: $\frac{Y_t - Y_{t-1}}{Y_{t-1}}$ (expansion and recessions)

2.2 Unemployment

- Labour force (L) = employed (N) + une (U)
- Une rate (u) = U/L
 - 2012 example: $0.63 / 0.63 + 11.5 = 5.2\%$
- Participation rate = $L / \text{pop. Working age}$
 - 65% for Australia

2.3 Inflation

- Sustained rise in general level of prices (vs. deflation with neg. inflation rate)

2.3.1 GDP Deflator

- Average price of outputs
 - Base Year = 100 (x100)
 - \$ = nominal number
 - $$P_t = \frac{\text{nominal GDP}_t}{\text{real GDP}_t} = \frac{\$Y_t}{Y_t}$$
- Rate of inflation: rate of change in GDP deflator
 - $$\frac{(P_t - P_{t-1})}{P_{t-1}}$$

- Nominal GDP = GDP deflator x rGDP ($P_t Y_t$)

2.3.2 CPI

- Average price of consumption (cost of living)

Chapter 3: SR - Goods Market

3.1 Composition of Australian GDP

- C: G&S purchased by consumers
- I: (fixed investment) – purchase of capital goods (non-reside)
 - Inventory investment: production minus sales
- G: G&S purchased by governments (not transfers)
- M: purchase of foreign G&S by Australians

Table 3.1 The composition of Australian GDP, 2011

	Chain volume measures	Billions of dollars	Per cent of GDP
GDP (Y)		1335	100
1 Consumption (C)		747	56.0
2 Investment (I)		314	23.5
	Nonresidential	243	18.2
	Residential	71	5.3
3 Government spending (G)		321	24.1
4 Net exports		-49	-3.7
	Exports (X)	255	19.1
	Imports (IM)	-304	-22.8
5 Inventory investment		4	0.3

SOURCE: RBA, Bulletin Table G11. © Reserve Bank of Australia, 2001–10. All right reserved.

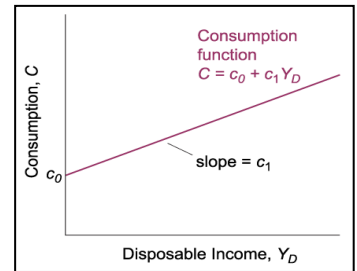
- X: purchase of Australian G&S by foreigners
 - Net Exports: trade balance, surplus or deficit

3.2 Demand for goods

- Therefore $Z \equiv C + I + G + X - M$ (note assume closed economy)

3.2.1 Consumption

- $C = C(Y_D)$
 - Disposable income: once consumers pay income tax and receive transfer payments ($Y_D \equiv Y - T$)
- $C = c_0 + c_1(Y - T)$ - specific form
 - MPC: c_1 tells marginal effect of increase in income on consumption ($0 < c_1 < 1$)
 - c_0 accounts for spending given no income



3.2.2 Investment

- Assume exogenous ($I = \bar{I}$)

3.2.3 Govt. spending

- Assume exogenous ($G - T$) – fiscal policy

3.3 Equilibrium

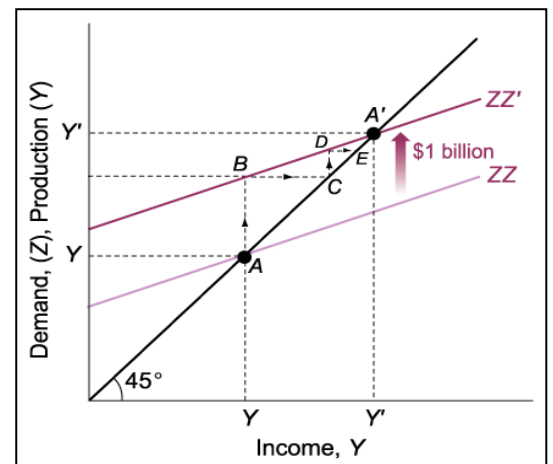
- Production = demand ($Y = Z$) – assuming no inventory
 - Note: production = income (Y represents production and income is included)
 - Therefore $Y = c_0 + c_1(Y - T) + \bar{I} + \bar{G}$
- Multiplier: > 1
- Autonomous spending: demand for goods that doesn't depend on income

$$(1 - c_1)Y = c_0 + \bar{I} + \bar{G} - c_1 T$$

$$Y = \frac{1}{1 - c_1} [c_0 + \bar{I} + \bar{G} - c_1 T]$$

3.3.1 Graph

- Increase in Auto. spending – Govt. increase spending, firms increase production, incomes increase, increase consumption and again firm increases production
- Output increases over time – adjustment depends on how often firms revise production schedules (dynamics of adjustment)



3.4 IS alternative

- Private saving by consumers and public saving by government (surplus or deficit)
 - $S \equiv Y_D - C$
 - $S \equiv Y - T - C$
- $Y = C + I + G$
- $Y - T - C = I + G - T$
- $S = I + G - T$
- $I = S + (T - G)$

Chapter 4: SR - Financial Market

4.1 Demand for money

- Money: Currency and current account deposits
 - M1: Currency + current account deposit
 - M3: currency + term deposits

