Introductory Macroeconomics

Lecture 22: balance of payments, part two

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This Lecture

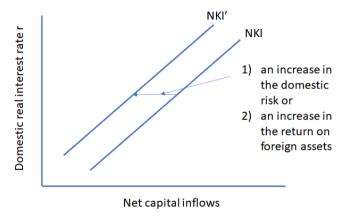
- Balance of Payments
 - determinants of net capital inflows
 - relationship among net capital inflows, national saving, and domestic investment
 - relationship among national saving, domestic investment, and net exports
- BOFAH chapter 18

- Why does the net capital inflow change?
 - why would foreigners want to buy Australian assets?
 - why would Australians want to buy foreign assets?
- An important factor that determines the attractiveness of any asset is its return 0.
 - all else being equal, high r on Australian assets promotes capital inflow by making Austrian assets more attractive to foreigners
 - by the same token, high r on Australia assets reduces capital outflow by making Austrian assets more attractive to Australian resident
 - a positive relation between r and net capital inflows

r → net capital infrom ?

- Another important factor that determines the attractiveness of a domestic asset is its risk)
 - all else being equal, an increase in the risk of holding Australian assets reduces capital inflow by making them less attractive to foreign investors
 - by the same token, an increase in the risk of holding Australian assets induces capital outflow by making Austrian assets less attractive to Australian resident
 - an increase in the risk of holding domestic assets reduces net capital inflows

- (7)
- Return on foreign assets also affects the the domestic net capital inflow
 - all else being equal, an increase in the return on foreign assets
 reduces capital inflow by making Austrian assets less attractive to foreigners
 - by the same token, an increase in the return on foreign assets
 promotes capital outflow by making foreign assets more attractive to Australian resident
 - an increase in the return on foreign assets reduces net capital inflows



- An increase in the domestic risk shifts in the net capital inflows
- An increase in the return on foreign assets shifts in the net capital inflows

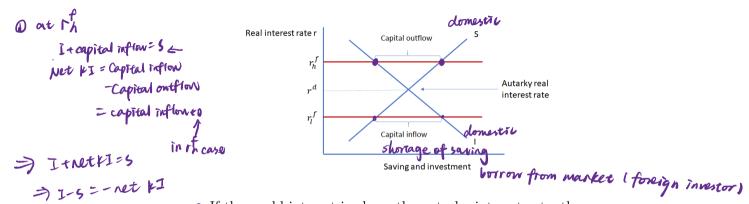
Net Capital Inflows, Saving, and Investment

Let13



- In a closed economy, the equilibrium real interest rate is determined by national saving and domestic investment
- However, in a small open economy, real interest rate is determined by the world interest rate, which is exogenous
 - a small open economy is an economy that participates in international trade, but is small enough that its policies do not alter world prices and world interest rates
 - if the domestic interest rate deviates from the world interest rate, it quickly converges to the the world interest rate
 - therefore, the domestic economy takes the world interest rate as given, at which national saving may not equate domestic investment

Net Capital Inflows, Saving, and Investment



- If the world interest is above the autarky interest rate, then excessive national saving flows out
- If the world interest is below the autarky interest rate, then the shortage of national saving is made up by capital inflows

Saving, Investment, and Net Exports

• Previous analysis tells how savings, investment, net capital inflows are related

$$S + net \ capital \ inflows = I$$

• Using the fact that net exports equal to negative capital inflow,

• Using the fact that net exports equal to negative capital inflow, by assumption
$$S - I = -net \ capital \ inflows$$

$$= net \ exports$$
• Low national saving relative to domestic investment (S < I) leads

- to a trade deficit (negative net exports)
 - intuitively, a country with a low national saving rate is one in which households, firms, and government have high spending rates relative to domestic production spending > production
 - to support the excess spending, a country needs to import fall in net export

Saving, Investment, and Net Exports

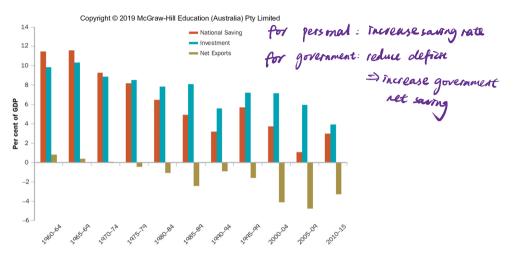


Figure: National saving, domestic investment, and net exports in the US

National Income Accounting Identity Approach

- Alternative approach to derive the relationship among net exports, national saving, and investment is using the national income accounting identity
- Recall that the national income account identity in an open economy is

$$Y = C + I + G + (X - M)$$

• Rearranging the national identity

$$\underbrace{Y - C - G}_{national \ saving \ (S)} = I + (X - M)$$

$$\rightarrow \underbrace{S - I}_{national \ saving \ (S)}$$

Next Lecture

• Summary of the first part of the course