

ECO 120: Macroeconomics

Your Name: _____

In-class Exercise

Expenditure Multiplier

Section (Circle One): 7:45-9:10AM 9:25-10:50AM

Directions: Work in groups of up to four people and answer the following questions. All papers will be collected, but only one member's paper will be randomly selected and graded and all members of the group will receive the same grade.

By signing below, you agree that the following work represents the efforts of everyone in the group, and you are willing to accept as your own grade for the group project the grade earned from this representation of your group's work.

_____ Signature Group Member 1	_____ Print Name	_____ Date
_____ Signature Group Member 2	_____ Print Name	_____ Date
_____ Signature Group Member 3	_____ Print Name	_____ Date
_____ Signature Group Member 4	_____ Print Name	_____ Date

3. Recently, financial investors around the world have speculated that investment in Chinese stocks and bonds will be less profitable. Suppose also if income were to increase by \$1 in the United States, savings would rise by \$0.05 and imports would rise by \$0.20.
- (a) Describe and illustrate the impact of the change in expectations on the U.S. dollar / Chinese Yuan exchange rate.
- (b) All other things remaining the same, will U.S. exports to China increase, decrease, or stay the same? Will U.S. imports from China increase, decrease or stay the same. Explain.
- (c) Suppose in response to the change in the value of the Yuan, the initial change in U.S. exports is \$10 billion and the initial change in U.S. imports is \$15 billion (you should know whether each of these is an increase or decrease). What will be the immediate impact on real GDP?

4. What happens to the multiplier if the marginal propensity to save increases from 5% to 10% (assume $MPM=0$). Which MPS gives the government greater power to influence GDP? Does this imply that the government should persuade people not to save? Think about this question in terms of the expenditure model and past models with a long-run outlook.

5. Suppose in a closed economy, the marginal propensity to save is 5%. Suppose the economy decides to remove its trade barriers and freely allow imports and exports. As a consequence the marginal propensity to import becomes 20%.

(a) How does this effect the expenditure multiplier?

(b) How does this change affect the ability of the government to fix recessions?

(c) How does this affect the stability of GDP in the face of changes in aggregate expenditures?

(d) Is opening up the economy a good thing or a bad thing? Explain.