

ECON1001 INTRODUCTION TO MICROECONOMICS

THE UNIVERSITY OF SYDNEY

CHAPTER SUMMARIES AND KEY CONCEPTS

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1. Key Economic Concepts

Scarcity & Opportunity Cost	Marginal Analysis	Ceteris Paribus	Correlation & Causation
<ul style="list-style-type: none"> • Scarcity <ul style="list-style-type: none"> - Resources are limited, so not all wants can be met • Opportunity Cost <ul style="list-style-type: none"> - The value of the next best alternative forgone - Includes explicit + implicit costs - Excludes sunk costs • Explicit Costs <ul style="list-style-type: none"> - Costs that involve direct payment • Implicit Costs <ul style="list-style-type: none"> - Opportunities that are forgone that do not involve an explicit cost • Sunk Costs <ul style="list-style-type: none"> - Costs that have been incurred and cannot be recovered 	<ul style="list-style-type: none"> • Marginal Analysis <ul style="list-style-type: none"> - Consumers seek to maximise benefits - Firms seek to maximise profits - Analysis considering the additional benefit or cost of any action • Marginal Benefit <ul style="list-style-type: none"> - Additional benefit derived from consuming an extra unit of a good • Marginal Cost <ul style="list-style-type: none"> - Additional cost incurred from purchasing an extra unit of a good 	<ul style="list-style-type: none"> • Ceteris Paribus <ul style="list-style-type: none"> - 'other things equal' - Examining the impact of one change at a time, holding everything else constant 	<ul style="list-style-type: none"> • Correlation <ul style="list-style-type: none"> - A situation in which 2 or more factors are observed to move together • Causation <ul style="list-style-type: none"> - A situation where a change in one factor brings about, or causes, a change in something else

4. Trade and the PPF

Gains from Exchange	The PPF	Absolute Advantage & Comparative Advantage	Gains from Specialisation
<ul style="list-style-type: none"> • Gains from Exchange <ul style="list-style-type: none"> - Trade makes people better off - Trade helps allocate goods and services to those who value them the most - Trade can only occur if the seller's valuation of the item (V_s) does not exceed the buyer's valuation (V_b) - For trade to take place: $V_s \leq p \leq V_b$ 	<ul style="list-style-type: none"> • PPF <ul style="list-style-type: none"> - Traces out combinations of the quantity of 2 goods that an individual/country can produce if it uses all of its resources • Points on the PPF <ul style="list-style-type: none"> - Efficient in the sense that it makes full use of the available resources • Points inside the PPF <ul style="list-style-type: none"> - Inefficient because it does not make full use of the available resources • Points outside the PPF <ul style="list-style-type: none"> - Not feasible, because production of those levels of X and Y would require more resources 	<ul style="list-style-type: none"> • Absolute Advantage <ul style="list-style-type: none"> - A has absolute advantage over B in the production of a good if, for a given amount of resources, A can produce a greater number of that good than B • Comparative Advantage <ul style="list-style-type: none"> - A has a comparative advantage over B in the production of a good if A's opportunity cost of producing that good is lower than B's 	<ul style="list-style-type: none"> • Gains from Specialisation <ul style="list-style-type: none"> - When parties specialise in producing the good they have comparative advantage in, total production increases - With more output, both trading parties can potentially be made better off

14. Monopolistic Competition

Characteristics	The Short Run	The Long Run	Welfare under Monopolistic Competition
<ul style="list-style-type: none"> • Many buyers and sellers <ul style="list-style-type: none"> - No producer has complete control over the price, because buyers can always switch to other sellers • Production differentiation <ul style="list-style-type: none"> - Each firm sells a slightly differentiated product • Free entry and exit <ul style="list-style-type: none"> - No barriers to entry in the long run 	<ul style="list-style-type: none"> • Short Run <ul style="list-style-type: none"> - If firms raise their prices slightly, there will be drop off in quantity demanded, but not necessarily falling to 0 - Firms set profit-maximising prices like monopolists - Number of firms in market fixed in the short run - Each firm faces fixed cost of production, which constraints the ability of firms to enter and exit market in short run - Firms can make profits/losses, depending on whether the price charged is higher/lower than average total cost 	<ul style="list-style-type: none"> • Effect of entry and exit on demand curves <ul style="list-style-type: none"> - If a new firm enters the market, it will affect the demand curves of all incumbent firms - Decrease in demand for products of incumbent firms - Demand curve for products of incumbent firms becomes more elastic - If a firm leaves the market, there will be an increase in demand for incumbent firms and their demand curves become less elastic • Elimination of profits and losses <ul style="list-style-type: none"> - Entry of firms decreases demand for other firms, lowering the price those firms can charge and lowering their profits - Exit of firms increases demand for other firms, increasing the price those firms can charge and increasing their profits 	<ul style="list-style-type: none"> • Business Stealing <ul style="list-style-type: none"> - A firm entering the market does not account for the fact that its entry takes customers away from incumbent firms - Causing a consumer to switch between firms does not necessarily increase surplus, but it does mean the economy has to bear another firm's fixed costs of production - Suggests that number of firms in market is too high • Product Variety <ul style="list-style-type: none"> - A firm entering the market offers additional differentiation in the market - Greater variety of products can better cater to various tastes of consumers - Increase in consumer surplus - Suggests that number of firms in market not high enough

17. Externalities

External Costs and Benefits	Problem with Externalities	Private-Market Solutions	Government Solutions
<ul style="list-style-type: none"> • Externality <ul style="list-style-type: none"> - Cost/benefit of an economic activity that accrues to a person not directly involved in that activity • Positive Externality <ul style="list-style-type: none"> - Economic activity results in external benefits for 3rd party • Negative Externality <ul style="list-style-type: none"> - Economic activity results in external costs for 3rd party • Positive Consumption Externality <ul style="list-style-type: none"> - Presence of positive externality, $MSB > MPB$ - $MSB = MPB + MEB$ - No positive externality, $MEB = 0$ - $MSB = MPB$ • Negative Production Externality <ul style="list-style-type: none"> - Presence of negative externality, $MSC > MPC$ - $MSC = MPC + MEC$ - No negative externality, $MEC = 0$ - $MSC = MPC$ 	<ul style="list-style-type: none"> • Positive Consumption Externality <ul style="list-style-type: none"> - $MSB > MPB$ - Underproduction of goods - Units not traded because, $MPC > MPB$ - Society wants trade because, $MSC < MSB$ - DWL • Negative Production Externality <ul style="list-style-type: none"> - $MSC > MPC$ - Overproduction of goods - Units traded because, MPB (consumer) $>$ MPC (producer) - Society doesn't want trade because, $MSC > MSB$ - DWL • Negative Consumption Externality <ul style="list-style-type: none"> - $MSB < MPB$ - Overproduction of goods - DWL • Positive Production Externality <ul style="list-style-type: none"> - $MSC < MPC$ - Underproduction of goods - DWL 	<ul style="list-style-type: none"> • The Coase Theorem <ul style="list-style-type: none"> - Correction of externalities via private bargaining between individual parties - Market participants and 3rd parties affected can 'negotiate' the market outcome, such that socially optimal outcome is implemented and DWL eliminated - Provided property rights have been clearly assigned and there are no transaction costs, bargaining will lead to an efficient outcome, regardless of the initial allocation of property rights • Limitations of Coase Theorem <ul style="list-style-type: none"> - Property rights not originally defined - Transaction costs assumed to be 0; there are implicit and explicit costs in the real world - Identity of parties unknown; negotiation unable to take place 	<ul style="list-style-type: none"> • Taxes and Subsidies <ul style="list-style-type: none"> - Tax/subsidy aims to increase/reduce quantity traded in the market to socially optimal level - Tax: Decrease quantity traded - Subsidy: Increase quantity traded - Size of tax/subsidy should be = size of externality • Quantity Regulation <ul style="list-style-type: none"> - Government can regulate the quantity traded in the market i.e. Requirement of a license to consume/produce a certain good/service and limiting the licenses issued • Tradeable Permits <ul style="list-style-type: none"> - A special type of license that may be transferred between parties - i.e. Consumers/producers may trade with each other for the right to consume/produce units of output