MASTER-ECONOMICS (M-ECON) Dated: 03 Oct 2018

LEARNING OUTCOMES:

Candidates having completed the requirements under the M-ECON:

1. An economic mindset with a recognition of interdisciplinary relationships

"Shouldn't we first determine whether we are capable of answering such questions?", posed John Locke after an evening of heated but fruitless metaphysical debate with friends (Philosophy: Problems and Perspectives, Solomon, 1977).

- Have advanced theoretical foundation in economics, particularly in producer and consumer behavior, market structure and analysis, and uncertainty;
- Have critical awareness, through exposure to the literature, of the complex connectedness of economics study in areas such as poverty and inequality, taxes and income distribution, growth and development, non-/renewable resource use and environmental management, domestic and international macroeconomic imbalances, policy and welfare analysis, and use this to analyze issues within economics;
- Have in-depth knowledge and understanding of methods of analysis among survey design, experimental design, and econometric modeling to analyze economic data, establish causality versus correlation.

2. Equipped to address real-world problems with sustainability as a guiding principle

"Knowing a great deal is not the same as being smart: intelligence is not information alone but also judgement, the manner in which information is coordinated and used." – Carl Sagan (Cosmos, 1980)

- Can identify contemporary problems to formulate researchable questions by which to analyze microeconomic behavior of individual agents and markets, and macroeconomic phenomena;
- Have the aptitude to independently consult the economics literature to apply theory and reasoning when conducting qualitative and quantitative analysis to understand causal relationships, correlations, and the link between theory and empirical results;
- Can consult economic literature and collect secondary data to analyze and interpret trends to be presented to management and colleagues;
- Can assemble economic datasets and construct econometric models to analyze complex problems in a consistent way with the ability to detect logical flaws in the analysis;
- Have a critical understanding of economic theory and its relevance for natural and environmental sciences, other social sciences, development studies, finance and commodity market analysis, and food and agricultural sciences; and
- Have the proficiency to interpret and report results and communicate insights, through written and oral presentation, to specialists in the field, decision makers in business, policy makers in government and to society at large.

3. Social skills that prepare graduates to work collegially with consciousness and integrity:

"Some degree of inequality in income and wealth, of course, would occur even with completely equal opportunity because variations in effort, skill, and luck will produce variations in outcomes." – Janet Yellen (Conference on Economic Opportunity and Inequality, Oct. 2014)

- Can use their knowledge and skills to address contemporary problems, incorporating socioeconomic and political issues when applying economic theory and methods;
- Can conduct market analysis in accordance with ethical guidelines for research, and understanding the limitations of their data, and the constraints of their modeling construct and underlying assumptions; and
- Can work independently, or with direct responsibility to a diverse multicultural team, through their ability to organize, plan and conduct their assigned tasks within a given deadline.

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Course matrix mapping content with learning outcomes at the program level: required courses

	ECN301	ECN302	ECN305	ECN306	ECN311	ECN320
1. An economic mindset with a recognition of interdisciplinary relationships Knowledge						
1K1 Advanced theoretical foundation in economics					X	X
1K2 Awareness of complex connectedness of economics study in areas						X
1K3 In-depth knowledge understanding of methods of analysis	X		X			
2. Equipped to address real-world problems with sustainability as a guiding principle Knowledge						
2K1 Critical understanding of economic theory – relevance for natural and environmental sciences and other sciences				X	X	X
Skills						
2S1 Identify contemporary problems to formulate researchable questions	X		X	X	X	X
2S2 Independently consult the literature to apply theory for analysis	X		X	X	X	
2S3 Consult economics literature and collect secondary data to analyze and interpret			X	X		X
2S4 Assemble economic datasets and construct econometric models to analyze	X	X	X			
2S5 Interpret and report results and communicate insights, through written and oral presentation	X			X		
3. Social skills that prepare graduates to work collegially with consciousness and integrity Skills						
3S1 Address contemporary problems, incorporating socioeconomic and political issues	X	X	X	X	X	X
3S2 Conduct market analysis according to ethical guidelines for research, and understanding limitations of data and modeling construct	X		X		X	
3S3 Work independently, or with direct responsibility to a diverse multicultural team within a given deadline	X			X	X	X

Course matrix mapping content with learning outcomes at the program level

Required courses in M-ECON	**1. An economic mindset with a recognition of interdisciplinary relationships**			**2. Equipped to address real-world problems with sustainability as a guiding principle**						**3. Social skills that prepare graduates to work colleagially with consciousness and integrity**		
	Advanced theoretical foundation	Economic study areas	Methods of analysis	Relevance of econ to social or environ sci	Qual and quantitative analysis	Aptitude to independently consult literature to apply theory and reasoning when conducting qualitative and quantitative analyss	Can collect second data to interpret	Assemble database for econometrics	Interpret + report results	Address contemporary problems	Ethical guidelines for research	Work in groups or independ in diverse multicultural teams
	1K1	1K2	1K3	2K1	2S1	2S2	2S3	2S4	2S5	3S1	3S2	3S3
ECN301 Metrics												
ECN302 Math												
ECN305 Research												
ECN306 Sustain												
ECN311 Micro												
ECN320 Macro												
ECN372 Climate												
ECN380 Energy												
ECN303 Stat Method												
ECN304 Behave												
ECN375 Nat resourc												

M-ECON – Environment, Climate and Energy Economics, Environment and Climate oriented

	LO1.1	LO1.2	LO1.3	LO2.1	LO2.2	LO2.3	LO2.4	LO2.5	LO2.6	LO3.1	LO3.2	LO3.3
ECN302												
ECN311												
ECN301												
ECN306												
ECN320												
ECN305												
BUS360												
ECN372												
ECN375												
M30-ECON												
Total:												

M-ECON – Environment, Climate and Energy Economics, Energy oriented

	LO1.1	LO1.2	LO1.3	LO2.1	LO2.2	LO2.3	LO2.4	LO2.5	LO2.6	LO3.1	LO3.2	LO3.3
ECN302												
ECN311												
ECN301												
ECN306												
ECN320												
ECN305												
BUS360												
ECN372												
ECN380												
M30-ECON												
Total:												

M-ECON – Development and Global Change

	LO1.1	LO1.2	LO1.3	LO2.1	LO2.2	LO2.3	LO2.4	LO2.5	LO2.6	LO3.1	LO3.2	LO3.3
ECN302												
ECN311												
ECN301												
ECN306												
ECN320												
ECN305												
BUS352												
ECN303												
BUS360												
M30-ECON												
Total:												

M-ECON – Financial and Commodity Market Analysis

	LO1.1	LO1.2	LO1.3	LO2.1	LO2.2	LO2.3	LO2.4	LO2.5	LO2.6	LO3.1	LO3.2	LO3.3
ECN302												
ECN311												
ECN301												
ECN306												
ECN320												
ECN305												
BUS322												
ECN323												
ECN326												
BUS360												
M30-ECON												
Total:												

Codes to be used

Symbols:	Explanation:
Learning:	
	67 % to 100 %
	33 % to 66 %
	5 % to 32 %
L	Lectures
Po	Projects
G	Group work
C	Cases
FC	Flipped Classroom
E	Exercises
Pe	Presentations
Fe	Feedback
	A little
	No
TH	Take-home exam
TP	Term paper
W	Written exam
O	Oral exam
Pe	Presentations
Po	Projects
WA	Written assignment
C	Cases
MC	Multiple Choice
MT	Master thesis
E	Essays

Courses offered under new program:

ECN301 (Fall)

ECN302 (Aug)

ECN304 (Fall)

ECN305 (Fall)

ECN306 (Fall)

ECN311 (Fall)

ECN372 (Fall)

ECN380 (fall)

ECN320 (spring)

ECN375 (spring)

ECN352 (spring)

BUS360 (Jan 2020)