

## Department of Economic Sciences UGARC 2021

### 1.1 Institute Core courses

i. Two courses out of PHY102-105 recommended for department students.

We would prefer that the students have the freedom to choose the two courses based on their own interests.

ii. Indicate if the department would like to offer an ESC102xyz course (open to all students).

Undergraduate students in the Economic Sciences department are to take the ESC102 course (offered by CSE).

### 1.2 Department Template for BT/BS program

Template for the department (Table 3 filled with courses and corresponding credits)

For Group Y: CHE, AE, MSE, CE, PHY, ECO, ES and CHM					
Table 3. BT/BS Template for 3 <sup>rd</sup> to 8 <sup>th</sup> semester, Department Name: Economic Sciences					
Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8
SCHEME-2 HSS-I (11)	SCHEME-3 EME (9-11)	ECO371 (11): Game Theory	<b>SCHEME*</b> HSS-II (9)	<b>SCHEME*</b> HSS-II (9)	<b>SCHEME*</b> HSS-II (9)
ECO211 (11): Microeconomics I	<b>ESC201A (14)</b> <b>[Group Y]</b>	ECO351 (11): Econometrics II	ECO311 (11): Microeconomics II	DE-3 (9)	DE-6 (9)
ESO/SO-1: HSO201A (11): Applied Probability and Statistics	ECO231 (11): Macroeconomics I	ECO331 (11): Macroeconomics II	DE-2 (9)	DE-4 (9)	DE-7 (9)
ECO101 (11): Economy, Society and Public Policy	ECO251 (11): Econometrics I	ESO/SO-2: ESO207A (12)	OE-2 (9)	DE-5 (9)	OE-5 (9)
ECO271 (11): Optimization	OE-1 (9)	DE-1 (9)	OE-3 (9)	OE-4 (9)	OE-6 (9)
		UGP-1 (4) (extra credits)	UGP-2 (9) (extra credits)	UGP-3 (9) (extra credits)	UGP-4 (9) (extra credits)
53-55	54-56	54	47	45	45

Note: Students may exchange OEs and DEs across semesters, as long as the total credits for the DEs and OEs remain the same as in the template above.

Details of interdepartmental electives you plan to offer

N/A

Details of any new E/SO course you plan to offer

N/A

Table 4. Credit details of BT/BS (four year) program for Economic Sciences (Department name)		
Course type	Allowable Credit range	Credit in the department template
Institute Core (IC)	107	107
E/SO	18-45	23
Department requirements	144-179	162
Open electives (OE)	51-57	54
SCHEME	53-58	53-58
Total for 4-year BT/BS	386-415	399-404

2. Department Template for BTH/BSH program

Honours course basket (list of courses)

Any ECO courses numbered 700 and above are to be considered as part of the honours course basket.

CPI criteria

8.5 and above.

For Group Y: CHE, AE, MSE, CE, PHY, ECO, ES and CHM					
Table 3. BTH/BSH Template for 3 <sup>rd</sup> to 8 <sup>th</sup> semester, Department Name: Economic Sciences					
Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8
SCHEME-2 HSS-I (11)	SCHEME-3 EME (9-11)	ECO371 (11): Game Theory	<b>SCHEME*</b> HSS-II (9)	<b>SCHEME*</b> HSS-II (9)	<b>SCHEME*</b> HSS-II (9)
ECO211 (11): Microeconomics I	<b>ESC201A (14)</b> <b>[Group Y]</b>	ECO351 (11): Econometrics II	ECO311 (11): Microeconomics II	OE-4 (9)	DE-5 (9)
ESO/SO-1: HSO201A (11): Applied Probability and Statistics	ECO231 (11): Macroeconomics I	ECO331 (11): Macroeconomics II	DE-2 (9)	DE-3 (9)	OE-5 (9)
ECO101 (11) – Economy, Society and Public Policy	ECO251 (11): Econometrics I	ESO/SO-2: ESO207A (12)	OE-2 (9)	DE-4 (9)	OE-6 (9)
ECO271 (11): Optimization	OE – 1 (9)	DE-1 (9)	OE-3 (9)	DE-H2 (9)	DE-H3 (9)
		UGP-1 (4) (extra credits)	DE-H1 (9)	UGP-3 (9)	UGP-4 (9)
53-55	54-56	54	56	54	54

Note: Students may exchange OEs and DEs across semesters, as long as the total credits for the DEs and OEs remain the same as in the template above.

3. Template for BTM/BSM program

For Group Y: CHE, AE, MSE, CE, PHY, ECO, ES and CHM					
Table 3. BTM/BSM Template for 3 <sup>rd</sup> to 8 <sup>th</sup> semester, Department Name: Economic Sciences					
Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8
SCHEME-2 HSS-I (11)	SCHEME-3 EME (9-11)	ECO371 (11): Game Theory	<b>SCHEME*</b> HSS-II (9)	<b>SCHEME*</b> HSS-II (9)	<b>SCHEME*</b> HSS-II (9)
ECO211 (11): Microeconomics I	<b>ESC201A (14)</b> <b>[Group Y]</b>	ECO351 (11): Econometrics II	ECO311 (11): Microeconomics II	DE-3 (9)	DE-4 (9)
ESO/SO-1: HSO201A (11): Applied Probability and Statistics	ECO231 (11): Macroeconomics I	ECO331 (11): Macroeconomics II	DE-2 (9)	MTB-2 (9)	MTB-5 (9)
ECO101 (11) – Economy, Society and Public Policy	ECO251 (11): Econometrics I	ESO/SO-2: ESO207A (12)	OE-2 (9)	MTB-3 (9)	OE-3 (9)
ECO271 (11): Optimization	OE – 1 (9)	DE-1 (9)	MTB-1 (9)	MTB-4 (9)	MTB-6 (9)
		UGP-1 (4) (extra credits)	UGP-2 (9) (extra credits)	UGP-3 (9) (extra credits)	UGP-4 (9) (extra credits)
53-55	54-56	54	47	45	45

Note: Students may exchange OEs and DEs across semesters, as long as the total credits for the DEs and OEs remain the same as in the template above.

**Revised DE Credits: 36**

4. Template for the double major program

Double Major	Economic Sciences
Odd Semester	Even Semester
ECO271 (11): Optimization	ECO211 (11): Microeconomics I
ECO371 (11): Game Theory	ECO231 (11): Macroeconomics I
ECO351 (11): Econometrics II	ECO251 (11): Econometrics I
ECO331 (11): Macroeconomics II	ECO311 (11): Microeconomics II
HSO201A (11): Applied Probability and Statistics/MSO201A (11): Probability and Statistics	ECO101 (11) – Economy, Society and Public Policy
55	55

Minimum Mandatory Credits for Second Major in Economics: 110 credits.

5. Bachelors-Masters (five-year Dual-degree) program

BS-MS PG (Category A) from same department	Economic Sciences
9 <sup>th</sup> Semester	10 <sup>th</sup> Semester
ECO701A (9): Microeconomics	ECO702A (9): Macroeconomics
ECO704A (9): Econometrics	ECO703A (9): Quantitative Methods
DE-PG1 (9)	DE-PG3 (9)
DE-PG2 (9)	DE-PG4 (9)
MS Project (9)	MS Project (9)
45	45

BS-MS PG (Category B) from other departments			Economic Sciences
UG Prerequisites			
Odd Semester	Even Semester	9 <sup>th</sup> Semester	10 <sup>th</sup> Semester
ECO211 (11): Microeconomics I	ECO231 (11): Macroeconomics I	ECO701A (9): Microeconomics	ECO702A (9): Macroeconomics
ECO271 (11): Optimization	ECO101 (11): Economy, Society and Public Policy	ECO704A (9): Econometrics	ECO703A (9): Quantitative Methods
ECO351 (11): Econometrics II	ECO251 (11): Econometrics I	DE-PG1 (9)	DE-PG3 (9)
HSO201A (11): Applied Probability and Statistics/MSO201A (11): Probability and Statistics	ECO311 (11): Microeconomics II	DE-PG2 (9)	DE-PG4 (9)
		MS Project (9)	MS Project (9)
44	44	45	45

## 6. Minors

Students pursuing UG programs of other departments/programs will also have option for a minor in Economics. Courses required to obtain a minor would be:

[1] Applied Probability and Statistics (HSO201A) OR Probability and Statistics (MSO201A) OR { Introduction to Probability Theory (MSO2xx) and Theory of Statistics (MTH2xx)}

[2] ECO211: Microeconomics I

[3] ECO231: Macroeconomics I

[4] ECO251: Econometrics I

**Note:** Students should also have taken ECO101: Economy, Society and Public Policy as part of the SCHEME basket or as an Open Elective.