Possible (non-binding) schedule for Industrial and Systems Engineering (ISE) students in the B.Eng (Hons) / B. Soc Sci (Hons) Double Degree Programme (AY2016/17 onwards)

YEAR 1		
Semester 1		**MCs**
MA1505 Mathematics I[1]	CA	4
ST1131 Introduction to Statistics[1]	CA	4
CS1010E Programming Methodology	C1	4
EC1101E Introduction to Economic Analysis	C2	4
FAS1102 Public writing and communication	C2	4
GER1000 Quantity Reasoning(QR)-GEM 1	CA	4
Semester 2		**MCs**
MA1506 Mathematics II[1]	CA	4
IE2140 Engineering Economy[2]	C1/CA	4
Basket of Engineering Science modules	C1	4
ST2131 Probability	C1	4
ES1531 Critical Thinking & Expository Writing	CA	4
EC2101 Microeconomic Analysis I	C2	4
YEAR 2		
Semester 1		**MCs**
IE2110 Operations Research I[2]	C1/CA	4
CS1020E Data Structures and Algorithms	C1	4
IE2101 Introduction to Systems Thinking	C1	4
FASS - Level-1000 Exposure module (Asian Studies) x 1 (CH1101E/CL1101E/JS1101E/MS1101E/SE1101E/SN1101E)	C2	4
Human and Cultures -GEM 2	CA	4
Semester 2		**MCs**
IE2100 Probability Models with Applications	C1	4
IE2130 Quality Engineering I	C1	4
IE2150 Human Factors Engineering	C1	4
EC2102 Macroeconomic Analysis I	C2	4
Asking Questions -GEM 3	CA	4
YEAR 3		
Semester 1		**MCs**

IE3100M Systems Design Project	C1	6
IE3101 Statistics for Engineering Applications	C1	4
IE3110 Simulation	C1	5
B.Eng. Technical Electives X 1	C1	4
B.Eng. Common module –IE4240 (Table D)[2]	C1/CA	4
EC3303 Econometrics I	C2	4
Semester 2		**MCs**
IE3100M Systems Design Project (cont'd)	C1	6
B.Eng. Technical Electives[†] X 1	C1	4
EC3101 Microeconomics Analysis II	C2	4
EC3102 Macroeconomics Analysis II	C2	4
EC3304 Econometrics II	C2	4
YEAR 4		
Semester 1		**MCs**
XF4401 Integrated Project (replaces FYP+2 electives) [1]	CA	8
B.A (Econ) common module X 1 (Table D)[2]	CA	4
EC4101 Microeconomic Analysis III	C2	5
EC4102 Macroeconomic Analysis III	C2	5
IE4211	C1	4
Semester 2		**MCs**
XF4401 Integrated Project (cont'd) [1]	CA	8
PH2208 Applied Ethics/PH2218-Business Ethics/PH2223 –Introduction to the Philosophy of Technology (replaces EG2401)[1]	CA	4
B.Eng. Technical Electives X 1	C1	4
B.A (Econ) Electives X 1 (level 2000/3000)	C2	4
BA (Econ) Elective x 1 (level 3000)	C2	4
YEAR 5		
Semester 1		MCs
Singapore Studies Module –GEM 4	CA	4
B.A (Econ) Elective X 3 (level 4000)	C2	15
B.A (Econ) Elective X 1 (level 3000)	C2	4
Thinking and Expression – GEM 5	CA	4

Minimum MCs = 203 MC

[†]*must be IE coded from list of ISE elective modules*

The modules that DDP students take are counted towards the CAP in the following manner:

1st Degree	Classified as C1 in the database
2nd Degree	Classified as C2 in the database
Both 1st and 2nd degrees	Classified as CA in the database

Additional modules taken will be counted towards C1, except for modules offered by the faculty of the student's 2nd degree, which will be classified as C2.

Table D: BEng & BA modules that may be considered as common modules
(8 MCs of Electives: Any One BEng Module and Any One BA (Econs) Module)

B.Eng. Modules	BA – Economics Modules
IE2110; IE2140; IE3120; IE4220; IE4240; IE4242 ; IE4243; IE4244	EC3312; EC3322; EC3332; EC3333; EC3382; EC3385; EC3386; EC4311; EC4303; EC4322,EC4372; EC5104; EC5314; EC5324R

Noted 1:

Students who are taking ES1531 have fulfilled B. Eng. Programme requirements. However, students need to do another GE module to fulfil T & E Pillar's requirement.

Noted 2:

Only for ISE DDP students from cohort AY 2012 onwards:

With the removal of the Level 1000 Physics module as an Unrestricted Elective requirement, the DDP students in this programme will be fully exempted from Unrestricted Electives. In addition, with the inclusion of several Economics modules as non-ISE technical electives in the BEng (ISE) curriculum.

Besides, students have required to taking at least 16 MC as common modules (CA) from the below table to meet the both degree requirements.

Four common modules (*16 MC*): MA1505, MA1506, PH2208/PH2223 or PH2218, and ST1131.

At least two modules (8 MC) from the Table D for the Common Technical Elective modules

- Please take note that 8 MC of the following modules:
  At least One BEng Module as shown in Table D
  At least One BA(Econs) Module as shown in Table D