

DOUBLE MAJOR PROGRAM BETWEEN IE AND MATH FOR MATH STUDENTS											NEW
IE Program			IE-MATH Program				MATH-IE Program			MATH Program	
First Semester	Credits	ECTS	First Semester	Credits	ECTS	First Semester	Credits	ECTS	First Semester	Credits	ECTS
AE 111-112/221-222*	3	3	AE 111-112/221-222*	3	3	AE 111/HSS/MLE #	3	3	AE 111#/HSS/MLE	3	3
ENGG 110	3	5	ENGG 110	3	5	MATH 111	4	8	MATH 111	4	8
MATH 101	4	6	MATH 101	4	6	MATH 131	4	8	MATH 131	4	8
MATH 201	4	5	MATH 201	4	5	PHYS 101 ##	4	8	PHYS 101##	4	8
PHYS 121	4	8	PHYS 121	4	8	Unrestricted Elect.	3	5	Unrestricted Elect.	3	5
Total	18	27	Total	18	27	Total	18	32	Total:	18	32
Second Semester			Second Semester			Second Semester			Second semester		
CHEM 105	4	6	CHEM 105	4	6	AE 111/HSS/MLE #	3	4	AE 112#/HSS/MLE	3	4
CMPE 150	3	5	CMPE 150	3	5	MATH 132	4	8	MATH 132	4	8
IE 120	3	5	IE 120	3	5	MATH 162	4	8	MATH 162	4	8
MATH 102	4	6	MATH 102	4	6	PHYS 102 ##	4	8	PHYS 102##	4	8
PHYS 201	4	6	PHYS 201	4	6	Unrestricted Elect.	3	5	Unrestricted Elect.	3	5
Total	18	28	Total	18	28	Total	18	33	Total:	18	33
Third Semester			Third Semester			Third Semester			Third semester		
AD 216	4	6	AD 216	4	6	EC 101 ####	3	6	CMPE 150	3	5
EC 101	3	6	EC 101	3	6	IE 201	3	6	MATH 221	4	8
IE 201	3	6	IE 201	3	6	IE 202	4	7	MATH 231	4	8
IE 202	4	7	IE 202 (Sem-4)	4	7	MATH 221	4	8	PHYS 201##	4	6
IE 255	3	6	IE 255	3	6	MATH 231	4	8	TK 221	2	3
TK 221	2	3	MATH 111	4	8	MATH 344 ###	3	6			
			MATH 231	4	8	PHYS 201##	4	6			
Total	19	34	Total	25	47	Total	25	47	Total:	17	30
Fourth Semester			Fourth Semester			Fourth Semester			Fourth Semester		
EC 102	3	6	EC 102	3	6	CHEM 105	4	6	HSS/MLE	3	5
IE 203	4	7	IE 203	4	7	CMPE 150	3	5	MATH 202	4	7
IE 220	3	5	IE 220	3	5	EC 102 ####	3	6	MATH 222	4	8
IE 256	3	6	IE 256	3	6	IE 203	4	7	MATH 234	4	8
MATH 202	4	7	MATH 202	4	7	IE 220	3	5	TK 222	2	3
TK 222	2	3	MATH 222	4	8	MATH 202	4	8			
			PHYS 202	4	6	MATH 222	4	8			
Total	19	34	Total	25	45	Total	25	45	Total:	17	31
Fifth Semester			Fifth Semester			Fifth Semester			Fifth Semester		
HSS	3	5	HSS	3	5	ENGG 110	3	5	HSS	3	5
HTR 311	2	3	IE 306	4	7	IE 306	4	7	HTR 311	2	3
IE 306	4	7	IE 312	4	7	IE 312	4	7	MATH 323	4	8
IE 312	4	7	IE 341	4	7	IE 341	4	7	MATH 331	4	8
IE 341	4	7	MATH 323	4	8	MATH 323	4	8	Unrestricted Elect.	3	5
			MATH 331	4	8	MATH 331	4	8			
			TK 221	2	3	TK 221	2	3			
Total	17	29	Total	25	45	Total	25	45	Total:	16	29
Sixth Semester			Sixth Semester			Sixth Semester			Sixth Semester		
HSS	3	5	IE Elect.	3	6	AE 111-112-221-222 ####	3	4	HSS	3	5
HTR 312	2	3	IE Elect.	3	6	IE	3	6	HTR 312	2	3
IE Elect.	3	6	IE 313	4	7	IE	3	6	MATH 338	4	8
IE Elect.	3	6	IE Specialization	3	6	IE 313	4	7	MATH Elect.	3	6
IE 313	4	7	MATH 234	4	8	MATH 234	4	8	MATH Elect.	3	6
IE Specialization	3	6	MATH 338	4	8	MATH 338	4	8	Science Elect.	3	5
			TK 222	2	3	TK 222	2	3			
Total	18	33	Total	23	44	Total	23	42	Total:	18	33
Seventh Semester			Seventh Semester			Seventh Semester			Seventh Semester		
CC	3	5	HSS	3	5	AD 216	4	6	MATH Elect.	3	6
IE Elect.	3	6	HTR 311	2	3	HSS #####	3	4	MATH Elect.	3	6
IE 423	3	6	IE Elect.	3	6	HTR 311	2	3	Science Elect.	3	5
IE Specialization	3	6	IE 423	3	6	IE	3	6	Unrestricted Elect.	3	5
IE Specialization	3	6	IE Specialization	3	6	IE 423	3	6	Unrestricted Elect.	3	5
			IE Specialization	3	6	IE Specialization	3	6			
			MATH Elect.	3	6	IE Specialization	3	6			
Total	15	29	Total	20	38	Total	24	43	Total:	15	27
Eighth Semester			Eighth Semester			Eighth Semester			Eighth Semester		
CC	3	5	HSS	3	5	HSS #####	3	4	HSS	3	5
HSS	3	5	HTR 312	2	3	IE Specialization	3	6	MATH Elect.	3	6
			IE 492	4	8	HTR 312	2	7	MATH Elect.	3	6
IE Elect.	3	6	MATH Elect.	3	6	IE 492	4	6	MATH Elect.	3	6
IE 492	4	8	MATH Elect.	3	6	MATH Elect.	3	6	Unrestricted Elect.	3	5
Unrest. Elect.	3	5	MATH Elect.	3	6	MATH Elect.	3	6			
			MATH Elect.	3	6	MATH Elect.	3	6			
Total	16	29	Total	18	34	Total	21	41	Total	15	28
TOTAL CREDITS	140	243		172	308		167/179	318/328		134	243
OVERLOAD				32			33/45				

Students whose Proficiency Exam scores are C are required to take AE 111 and AE 112. If it is B or above then they are required to take HSS or MLE.
Physics courses are one of the 3 series: (PHYS 101-130- 201) or (PHYS 101-102-201-202) or (PHYS 121-201- 202).
MATH-IE students may take IE 255 AND IE 256 sequence as an alternative to MATH 344.
Students who have taken this course in the first year are exempt from this course
* Students who pass BUEPT with C or are exempt from English preparatory class with an equivalent degree have to take AE 111 or 112. Students who score B or above in BUEPT or are exempt from English preparatory class with an equivalent degree will take AE 221 or AE 222.
In addition to the coursework, MATH-IE students are required to complete 60 days of summer training according to the rules of IE Department.