

DOUBLE MAJOR PROGRAM BETWEEN CMPE and MATH FOR CMPE and MATH STUDENTS.											NEW
CMPE Program			CMPE-MATH Program			MATH-CMPE Program			MATH Program		
First Semester	Cr.	ECTS	First Semester	Cr.	ECTS	First Semester	Cr.	ECTS	First Semester	Cr.	ECTS
MATH 101	4	6	MATH 101	4	6	MATH 131	4	8	MATH 131	4	8
PHYS 121	4	8	PHYS 121	4	8	MATH 111	4	8	MATH 111	4	8
CHEM 105	4	6	CHEM 105	4	6	PHYS 101**	4	8	PHYS 101**	4	8
CMPE 150	3	5	CMPE 150	3	5	Unrest Elect	3	5	Unrest Elect	3	5
EC 101	3	6	EC 101	3	6	AE 111*/HSS/MLE*	3	3	AE 111*/HSS/MLE*	3	3
TOTAL	18	31	TOTAL	18	31	TOTAL	18	32	TOTAL	18	32
Second semester			Second semester			Second semester			Second semester		
MATH 102	4	6	MATH 102	4	6	MATH 132	4	8	MATH 132	4	8
PHYS 201	4	6	PHYS 201	4	6	MATH 162	4	8	MATH 162	4	8
CMPE 160	4	8	CMPE 160	4	8	PHYS 102**	4	8	PHYS 102**	4	8
HSS	3	6	HSS	3	6	Unrest Elect	3	5	Unrest Elect	3	5
EC 102	3	6	EC 102	3	6	AE 112*/HSS/MLE*	3	4	AE 112*/HSS/MLE*	3	4
TOTAL	18	32	TOTAL	18	32	TOTAL	18	33	TOTAL	18	33
Third semester			Third semester			Third semester			Third semester		
MATH 201	4	5	MATH 201 / MATH 221 (Ext)	4	5/8	MATH 221	4	8	MATH 221	4	8
PHYS 202	4	6	PHYS 202	4	6	MATH 231	4	8	MATH 231	4	8
EE 210	3	6	EE 210	3	6	PHYS 201	4	6	PHYS 201**	4	6
CMPE 220	3	5	CMPE 220 / MATH111 (Ext)	3/4	5/8	CHEM 105***	4	6	CMPE 150	3	5
CMPE 250	4	6	CMPE 250	4	6	CMPE 150	3	5	TK 221	2	3
TK 221	2	3	TK 221	2	3	EE 210	3	6			
			MATH 231	4	8	TK 221	2	3			
TOTAL	20	31	TOTAL	24/25	39/45	TOTAL	24	42	TOTAL	17	30
Fourth Semester			Fourth Semester			Fourth Semester			Fourth Semester		
MATH 202	4	7	MATH 202	4	7	MATH 202	4	7	MATH 202	4	7
EE 212	3	4	EE 212	3	4	MATH 222	4	8	MATH 222	4	8
CMPE 230	4	6	CMPE 230	4	6	MATH 234	4	8	MATH 234	4	8
CMPE 240	4	6	CMPE 240	4	6	EE 212	3	4	HSS/MLE	3	5
CMPE 260	3	5	CMPE 260	3	5	CMPE 160	4	8	TK 222	2	3
TK 222	2	3	TK 222	2	3	CMPE 240	4	6			
			MATH 234	4	8	TK 222	2	3			
TOTAL	20	31	TOTAL	24	39	TOTAL	25	44	TOTAL	17	31
Fifth Semester			Fifth Semester			Fifth Semester			Fifth Semester		
CMPE 300	3	5	CMPE 300	3	5	MATH 323	4	8	MATH 323	4	8
CMPE 322	4	6	CMPE 322	4	6	MATH 331	4	8	MATH 331	4	8
CMPE 343	3	6	CMPE 343	3	6	EC 101***	3	6	Unrest Elective	3	5
CMPE 344	4	6	CMPE 344	4	6	CMPE 230	4	6	HSS	3	5
IE 310	4	5	IE 310	4	5	CMPE 250	4	6	HTR 311	2	3
HTR 311	2	3	HTR 311	2	3	CMPE 344	4	6			
			MATH 331	4	8	HTR 311	2	3			
TOTAL	20	32	TOTAL	24	39	TOTAL	25	43	TOTAL	16	29
Sixth Semester			Sixth Semester			Sixth Semester			Sixth Semester		
CMPE 321	4	6	CMPE 321	4	6	MATH 338	4	8	MATH 338	4	8
CMPE 350	3	5	CMPE 350	3	5	EC 102***	3	6	Math Elect	3	6
CMPE 352	2	4	CMPE 352	2	4	CMPE 260	3	5	Math Elect	3	6
CMPE 362	3	6	CMPE 362	3	6	CMPE 321	4	6	Science Elect	3	5
IE 306	4	7	IE 306	4	7	CMPE 350	3	5	HSS	3	5
HTR 312	2	3	HTR 312	2	3	CMPE 352	2	4	HTR 312	2	3
			MATH 222	4	8	CMPE 362	3	6			
						HTR 312	2	3			
TOTAL	18	31	TOTAL	22	39	TOTAL	24	43	TOTAL	18	33
Seventh Semester			Seventh Semester			Seventh Semester			Seventh Semester		
CMPE 451	2	5	CMPE 451	2	5	MATH 344	3	6	Math Elect	3	6
CMPE 443	4	6	CMPE 443	4	6	IE 310	4	5	Math Elect	3	6
CC	3/4	6	CC	3/4	6	CMPE 300	3	5	Unrest Elective	3	5
CC	3/4	6	CC	3/4	6	CMPE 322	4	6	Unrest Elective	3	5
CC	3/4	6	Math Elect	3	6	CMPE 443	4	6	Science Elect	3	5
			MATH 323	4	8	CMPE 451	2	5			
						HSS (Add)****	3	5			
TOTAL	15/18	29	TOTAL	19/21	37	TOTAL	23	38	TOTAL	15	27
Eighth Semester			Eighth Semester			Eighth Semester			Eighth Semester		
CMPE 492	4	8	CMPE 492	4	8	CMPE 492 *****	4	8	Math Elect	3	6
CC	3/4	6	CC	3/4	6	Math Elect	3	6	Math Elect	3	6
CC	3/4	6	Math Elect	3	6	Math Elect	3	6	Math Elect	3	6
CC	3/4	6	Math Elect	3	6	IE 306	4	7	Unrest Elective	3	5
HSS	3	6	HSS	3	5	CC	3/4	6	HSS	3	5
			MATH 338	4	8	CC	3/4	6			
			Math Elect (Add)	3	6	HSS (Add)****	3	5			
TOTAL	16/19	32	TOTAL	23/24	45	TOTAL	23/25	44	TOTAL	15	28
OVERALL TOTAL	145/151	250	OVERALL TOTAL	172/176	301/307	OVERALL TOTAL	168/182	299/319	OVERALL TOTAL	134	243
OVERLOAD			OVERLOAD	21/31		OVERLOAD	34/48		OVERLOAD		

Indicates the changes appearing in other than Math and Cmpe courses
Indicates the changes appearing in Math courses
Indicates the changes appearing in CMPE courses
Indicates the changes appearing in ECTS.

Add: Added to the program
Ext: Choices are extended

*Students who pass the preparatory year with an English proficiency level of C are required to take AE 111 and AE 112. Students whose Proficiency Exam scores are B and above are required to take HSS or MLE (Modern Language Elective).
** Physics courses are one of the 3 series: PHYS 101, PHYS 130, PHYS 201, or PHYS 101, PHYS 102, PHYS 201, PHYS 202; or PHYS 121, PHYS 201, PHYS 202.
*** MATH-CMPE students will be exempt from this course if they have taken it during their first year unrestricted elective slots.
**** MATH-CMPE students will be exempt from this course if they have taken it during their first year AE/HSS/MLE slots
***** MATH-CMPE students must have one advisor from Cmpe and one advisor from Math department.
In addition to the coursework, MATH-CMPE students are required to complete 60 days of summer training according to the rules of the Computer Engineering Department.

DOUBLE MAJOR PROGRAM BETWEEN CMPE AND MATH FOR CMPE STUDENTS											OLD
CMPE Program			CMPE-MATH Program			MATH-CMPE Program			MATH Program		
First Semester	Cr.	ECTS	First Semester	Cr.	ECTS	First Semester	Cr.	ECTS	First Semester	Cr.	ECTS
MATH 101	4	6	MATH 101	4	6	MATH 131	4	8	MATH 131	4	8
PHYS 121	4	8	PHYS 121	4	8	MATH 111	4	8	MATH 111	4	8
CHEM 105	4	6	CHEM 105	4	6	PHYS 101**	4	8	PHYS 101**	4	8
CMPE 150	3	5	CMPE 150	3	5	Unrest Elect	3	5	Unrest Elect	3	5
EC 101	3	6	EC 101	3	6	AE 111*/HSS/MLE*	3	3	AE 111*/HSS/MLE*	3	3
TOTAL	18	31	TOTAL	18	31	TOTAL	18	32	TOTAL	18	32
Second semester			Second semester			Second semester			Second semester		
MATH 102	4	6	MATH 102	4	6	MATH 132	4	8	MATH 132	4	8
PHYS 201	4	6	PHYS 201	4	6	MATH 162	4	8	MATH 162	4	8
CMPE 160	4	9	CMPE 160	4	9	PHYS 102**	4	8	PHYS 102**	4	8
HSS	3	6	HSS	3	6	Unrest Elect	3	5	Unrest Elect	3	5
EC 102	3	6	EC 102	3	6	AE 112*/HSS/MLE*	3	4	AE 112*/HSS/MLE*	3	4
TOTAL	18	33	TOTAL	18	33	TOTAL	18	33	TOTAL	18	33
Third semester			Third semester			Third semester			Third semester		
MATH 201	4	5	MATH 201 (Ext)	4	5	MATH 221	4	8	MATH 221	4	8
PHYS 202	4	6	PHYS 202	4	6	MATH 231	4	8	MATH 231	4	8
EE 210	3	6	EE 210	3	6	PHYS 201	4	6	PHYS 201**	4	6
CMPE 220	3	5	CMPE 220 (Ext)	3	5	CHEM 105***	4	6	CMPE 150	3	5
CMPE 250	4	6	CMPE 250	4	6	CMPE 150	3	5	TK 221	2	3
TK 221	2	3	TK 221	2	3	EE 210	3	6			
			MATH 231	4	8	TK 221	2	3			
TOTAL	20	31	TOTAL	24	39	TOTAL	20	24	TOTAL	17	30
Fourth Semester			Fourth Semester			Fourth Semester			Fourth Semester		
MATH 202	4	7	MATH 202	4	7	MATH 202	4	7	MATH 202	4	7
EE 212	3	4	EE 212	3	4	MATH 222	4	8	MATH 222	4	8
CMPE 230	4	6	CMPE 230	4	6	MATH 234	4	8	MATH 234	4	8
CMPE 240	4	6	CMPE 240	4	6	EE 212	3	4	HSS/MLE	3	5
CMPE 260	3	5	CMPE 260	3	5	CMPE 160	4	9	TK 222	2	3
TK 222	2	3	TK 222	2	3	CMPE 240	4	6			
			MATH 234	4	8	TK 222	2	3			
TOTAL	20	31	TOTAL	24	39	TOTAL	25	45	TOTAL	17	31
Fifth Semester			Fifth Semester			Fifth Semester			Fifth Semester		
CMPE 300	3	5	CMPE 300	3	5	MATH 323	4	8	MATH 323	4	8
CMPE 322	4	5	CMPE 322	4	5	MATH 331	4	8	MATH 331	4	8
CMPE 343	3	6	CMPE 343	3	6	EC 101***	3	6	Unrest Elective	3	5
CMPE 344	4	6	CMPE 344	4	6	CMPE 230	4	6	HSS	3	5
IE 310	4	5	IE 310	4	5	CMPE 250	4	6	HTR 311	2	3
HTR 311	2	3	HTR 311	2	3	CMPE 344	4	5			
			MATH 331	4	8	HTR 311	2	3			
TOTAL	20	30	TOTAL	24	38	TOTAL	22	25	TOTAL	16	29
Sixth Semester			Sixth Semester			Sixth Semester			Sixth Semester		
CMPE 321	4	6	CMPE 321	4	6	MATH 338	4	8	MATH 338	4	8
CMPE 350	3	5	CMPE 350	3	5	EC 102***	3	6	Math Elect	3	6
CMPE 352	2	5	CMPE 352	2	5	CMPE 260	3	5	Math Elect	3	6
CMPE 362	3	6	CMPE 362	3	6	CMPE 321	4	6	Science Elect.	3	5
IE 306	4	7	IE 306	4	7	CMPE 350	3	5	HSS	3	5
HTR 312	2	3	HTR 312	2	3	CMPE 352	2	5	HTR 312	2	3
			MATH 222	4	8	CMPE 362	3	6			
						HTR 312	2	6			
TOTAL	18	32	TOTAL	22	40	TOTAL	21	24	TOTAL	18	33
Seventh Semester			Seventh Semester			Seventh Semester			Seventh Semester		
CMPE 451	2	6	CMPE 451	2	6	MATH 344	3	6	Math Elect.	3	6
CMPE 443	4	6	CMPE 443	4	6	IE 310	4	5	Math Elect.	3	6
CC	3/4	6	CC	3/4	6	CMPE 300	3	5	Unrest Elective	3	5
CC	3/4	6	CC	3/4	6	CMPE 322	4	5	Unrest Elective	3	5
CC	3/4	6	Math Elect.	3	6	CMPE 443	4	6	Science Elect.	3	5
			MATH 323	4	8	CMPE 451	2	6			
TOTAL	15/18	30	TOTAL	19/21	38	TOTAL	20	33	TOTAL	15	27
Eighth Semester			Eighth Semester			Eighth Semester			Eighth Semester		
CMPE 492	4	8	CMPE 492	4	8	CMPE 492	4	8	Math Elect.	3	6
CC	3/4	6	CC	3/4	6	Math Elect.	3	6	Math Elect.	3	6
CC	3/4	6	Math Elect.	3	6	Math Elect.	3	6	Math Elect.	3	6
CC	3/4	6	Math Elect.	3	6	IE 306	4	7	Unrest Elective	3	5
HSS	3	6	HSS	3	5	CC	3/4	6	HSS	3	5
			MATH 338	4	8	CC	3/4	6			
TOTAL	16/19	32	TOTAL	20/21	39	TOTAL	20	22	TOTAL	15	28
OVERALL TOTAL	145/151	250	TOTAL	169/172	297	TOTAL	164/176	291/307	TOTAL	134	243
OVERLOAD				24/27			30/42				

Indicates the changes appearing in other than Math and Cmpe courses
Indicates the changes appearing in Math courses
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