

GROUP 1 COURSES (FULL EQUIVALENCE ACROSS ALL DEPARTMENTS)										
CATEGORY	CREDITS	ECTS	ALL PROGRAMS	EE	ME	IE	CE	CMPE	SENG	Notes
CC.R	3	5	ENG 101							
CC.R	3	5	ENG 102							
CC.R	0	1	TEDU 101							
CC.R	1	1	TEDU 102							
CC.R	3	5	LIBE 110							
CC.R	3	5	LIBE 120							
CC.R	3	5	LIBE 130							
CC.R	3	5	LIBE 140							
CC.R	3	5	LIBE 150							
U.C	2	2	HIST 101							
U.C	2	2	HIST 102							
U.C	2	2	TUR 101							
U.C	2	2	TUR 102							
CC.R	4	7	MATH 101							
CC.R	4	7	MATH 102							
F.C.	4	6	PHYS 101							
F.C.	3	5	MATH 220							
F.C.	3	5	MATH 244							
F.E.	3	5	SS 1							
F.E.	3	5			SS 2		SS 2	SS 2	SS 2	1
M.S.E.	3	5				MBS 1		MBS 1	MBS 1	2
M.S.E.	3	5				MBS 2				

Notes:

- 1) Students pursuing a double major in ME, CE, CMPE, or SENG may count any course offered by another department with 3 or more credits, excluding Group 1 courses, as their second Free Elective course.
- 2) MATH 204 and MATH 250, which are required courses in the EE Department, will be considered "Mathematics/Science Electives" in the curricula of other departments.

GROUP 2 COURSES

a) Departmental Required Courses (R)

CATE GORY	CRE DITS	ECT S	EE	CRE DITS	ECTS	ME	CRE DIT S	ECT S	IE	CRE DITS	ECTS	CE	CR EDI TS	ECT S	CMPE	CRE DITS	ECT S	SENG	Notes
R	3	5	MATH 204	3	6	MATH 240	3	6	MATH 230	3	6	MATH 240	3	6	MATH 240	3	6	MATH 240	A course taken in category "R" or "E" in either department may be counted as a "Free Elective" in the other department.
R	3	5	MATH 250	3	5	MATH 310	3	6	MATH 232	3	5	MATH 310	3	5	MATH 250	3	5	MATH 250	
R	3	6	EE 454	4	6	PHYS 102	3	5	CMPE 110	4	6	PHYS 102	4	6	PHYS 102	4	6	PHYS 102	
	3	5	CHEM 100	3	5	CHEM 100	3	5	CHEM 100	3	5	CHEM 100	3	6	EE 207	3	6	SENG 261	
R	3	5	CMPE 110	3	5	CMPE 110	3	5	CMPE 232	3	5	CMPE 110	3	6	SENG 214	3	6	SENG 212	
R	4	6	PHYS 102	3	5	ENGR 490	3	8	ME 221	3	5	CE 211	3	5	ENGR 490	3	5	CMPE 442	
R	3	5	ENGR 490	3	6	IE 222	3	5	ECON 110	3	5	CE 212	3	5	CMPE 114	3	6	CMPE 114	
R	4	8	EE 201	2	4	ME 200	3	5	ENGR 490	4	6	CE 214	3	6	CMPE 223	3	6	CMPE 223	
R	4	8	EE 202	3	6	ME 211	3	6	IE 212	4	6	CE 221	3	6	CMPE 224	3	6	SENG 218	
R	3	6	EE 222	3	6	ME 224	3	6	IE 222	3	6	CE 232	3	5	CMPE 232	3	5	CMPE 232	
R	3	5	EE 252	3	6	ME 241	3	6	IE 232	3	6	CE 300	3	6	CMPE 252	3	6	SENG 216	
R	1	4	EE 301	3	6	ME 242	3	6	IE 311	3	6	CE 311	3	5	CMPE 326	3	5	CMPE 326	
R	3	5	EE 304	3	6	ME 264	3	6	IE 312	3	6	CE 312	3	6	CMPE 327	3	5	SENG 311	
R	3	5	EE 311	3	5	ME 301	3	7	IE 316	3	6	CE 314	3	6	CMPE 361	3	6	SENG 315	
R	3	5	EE 312	3	5	ME 302	3	6	IE 331	4	6	CE 331	3	6	CMPE 371	3	5	SENG 313	
R	3	5	EE 332	3	5	ME 324	3	6	IE 332	3	6	CE 332	3	5	CMPE 382	3	5	CMPE 382	
R	3	5	EE 341	3	5	ME 336	3	6	IE 341	4	6	CE 341	1	2	CMPE 399	1	2	SENG 399	
R	3	5	EE 342	3	5	ME 345	3	5	IE 371	3	6	CE 342	3	5	CMPE 421	3	5	SENG 444	
R	4	8	EE 351	3	5	ME 353	1	3	IE 399	1	5	CE 399	3	6	CMPE 453	3	6	CMPE 453	
R	3	5	EE 361	3	5	ME 362	3	8	IE 491	3	12	CE 410	3	6	CMPE 472	3	6	SENG 442	
R	1	4	EE 399	1	4	ME 399	3	8	IE 492	3	6	CE 451	2	5	CMPE 491	2	5	SENG 491	
R	3	7	EE 491	3	5	ME REST	1	5	IE 499	3	6	CE 452	5	12	CMPE 492	2	8	SENG 492	
R	3	12	EE 492	4	12	ME 492				1	5	CE 499	1	3	CMPE 499	1	4	SENG 499	
R	1	6	EE 499	1	6	ME 499													
R	3	5	EE 451																
E	3	5	EE 4XX	3	5	ME 4XX(I)	3	5	IE 4XX	3	6	CE 4XX(I)	3	5	CMPE 3XX-4XX	3	5	SENG 3XX-4XX	

E	3	5	EE 4XX	3	5	ME 4XX(II)	3	5	IE 4XX	3	6	CE 4XX(II)	3	5	CMPE 3XX-4XX	3	5	SENG 3XX-4XX	
E	3	5	EE 4XX	3	5	ME 4XX(III)	3	5	IE 4XX	3	6	CE 4XX(III)	3	5	CMPE 3XX-4XX	3	5	SENG 3XX-4XX	
E																3	5	SENG 3XX-4XX	

EQUIVALENCIES AMONG GROUP 2 COURSES FOR DEPARTMENTS OF THE FACULTY OF ENGINEERING*									
CATEGORY	CREDITS	ECTS	EE	ME	IE	CE	CMPE	SENG	NOTES
R	3	6	-	MATH 240/ MATH 230	MATH 230/ MATH 240	MATH 240/ MATH 230	MATH 240/ MATH 230	MATH 240/ MATH 230	
R	3	6/8	-	ME 224/ ME 221	ME 224/ ME 221	-	-		1
R	3/3	6/5	-	ME 241/ CE 211	-	CE 211/ ME 241	-		
R	3/4	5/6	-	ME 345/ CE 214	-	CE 214/ ME 345	-		
R	3	6/5	-	ME 242/ CE 212	-	CE 212/ ME 242	-		1
R	3	5/6	EE 311 / CMPE 371				EE 311 / CMPE 371		
R	3	5	EE 332/ ME 336	EE 332/ ME 336		-			
R	3	5/6	-	ME 353/ CE 232	-	CE 232/ ME 353	-		1
R	3	6	EE 222/ EE 207	-	-	-	EE 222/ EE 207		
R	3	6	EE 222 / SENG 261					EE 222 / SENG 261	1
E	3	5	-	-	-	-	CMPE 3XX- 4XX/ IE 371	SENG 3XX- 4XX/ IE 371	2
R	1	4, 4, 3, 5, 2, 2	EE 399	ME 399	IE 399	CE 399	CMPE 399	SENG 399	1,3
R	1	6, 6, 5, 5, 3, 4	EE 499	ME 499	IE 499	CE 499	CMPE 499	SENG 499	
Number of Courses Required for Graduation:			47	48	47	46	48	49	
Minimum Total Credits Required for Graduation (Cr):			133	135	131	133	136	136	
Minimum Total ECTS Required for Graduation:			240	240	240	240	240	240	

* The course equivalencies specified in this table apply only to double-major students.

Notes:

- 1) Double-major students must make up any shortfall in the total credits required for graduation arising from credit differences between mutually recognized courses by taking additional course(s).
- 2) Industrial Engineering students pursuing a double major in Computer Engineering will be exempt from one CMPE 3XX–4XX departmental elective course. Industrial Engineering students pursuing a double major in Software Engineering will be exempt from one SENG 3XX–4XX departmental elective course.
- 3) Double-major students must complete either three internships (one internship for each major and one joint internship) or four internships (two separate major-specific internships for each major).