| 1st GROUP COURSES |  |  |  |  |
| :--- | :---: | :---: | :--- | :--- |
| (FULL COURSE EQUIVALENCY BETWEEN DEPARTMENTS) |  |  |  |  |
| CATEGORY | CREDIT | ECTS | ALL PROGRAMS | Notes |
| CC.R | 3 | 5 | CMPE 101 |  |
| CC.R | 3 | 5 | ENG 101 |  |
| CC.R | 3 | 5 | ENG 102 |  |
| CC.R | 4 | 6 | PHYS 105 |  |
| F.R | 3 | 6 | CMPE 112 |  |
| U.C | 2 | 2 | HIST 101 |  |
| U.C | 2 | 2 | HIST 102 |  |
| U.C | 2 | 2 | TUR 101 |  |
| U.C | 2 | 2 | TUR 102 |  |
| U.C | 0 | 1 | TEDU 400 |  |
| S.F | 3 | 5 | ED 1 |  |
| S.F | 3 | 5 | ED 2 |  |
| S.F | 3 | 5 | ED 3 |  |
| S.F | 3 | 5 | ED 4 |  |
| S.F | 3 | 5 | ED 5 |  |
| F.E | 3 | 5 | SS 1 |  |
| F.E | 3 | 5 | SS 2 |  |
| CC.E | 3 | 5 | CC(A) |  |
| CC.E | 3 | 5 | CC(H) |  |
| CC.E | 3 | 5 | CC(L) |  |
| CC.E | 3 | 5 | CC(NS) |  |
| CC.E | 3 | 5 | CC(SS) |  |
|  |  |  |  |  |

2nd GROUP COURSES
Program Required (R) and Elective (E)


| EQUIVALENCY BETWEEN 2nd GROUP COURSES FOR IE and ECON DEPARTMENTS* |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| CATEGORY | CREDIT | ECTS | IE | MATH | NOTES |
| CC.R/R | 4 | 7 | MATH 101 | MATH 113 |  |
| CC.R/R | 4 | 7 | MATH 102 | MATH 114 |  |
| R | 3 | 5/6 | MATH 203 | MATH 242 | 3, 5 |
| R | 3/4 | 5/6 | MATH 203 | MATH 221 | 3 |
| R/E | 3 | 6 | MATH 230 | $\begin{gathered} \text { MATH } \\ 3 X X / 4 X X \end{gathered}$ | 4 |
| Number of courses required for graduation: |  |  | 48 | 45 |  |
| Minimum credits required for graduation (Cr): |  |  | 136 | 135 |  |
| Minimum total ECTS required for graduation |  |  | 240 | 240 |  |

* Course equivalencies given in this table are only valid for double major students. The equivalency applications for the courses that do not exist in the table are evaluated by Faculty Executive Boards and endorsed if seen appropriate by both.


## Notes:

1) ECON 110 is a required course for IE Department, and is a required CC.E(SS) course for Math. Department. IEMath. Double Major students who have taken this course from IE Department, will be exempt from CC.E(SS) requirement in Math. Department, and if the student has taken CC.E(SS) from IE Department, it will be credited under Free Elective category.
2) For both departments, a course under "R" or "E" category other than summer practice courses, can be counted under "Free Elective" category in the other department.
3) IE-MATH Double Major students, whose major field is IE can take MATH 203 to have it credited for MATH 242 and those students whose major field is Math. can take MATH 221 to have it credited for MATH 203. MATH 203 cannot be credited for MATH 221 course. MATH 242 course cannot be credited for MATH 203.
4) IE-MATH Double Major students can have MATH 230 course credited for MATH 3XX/4XX departmental elective course.
5) MATH 203 has 5 ECTS credits, and MATH 242 has 6 ECTS credits. Double major students must compensate for missing credits by taking extra course(s) due to the credits differences of equivalent courses.
