

## Course Requirements

course	credits				research	total
	general course	Interdisciplinary mandatory major	Interdisciplinary elective major	Related departments mandatory/elective major		
MS	3	3	9	9	6	36
Ph.D	3	6	18	15	30	72

- Credits earned from a previous MS course may be used to fulfill the Ph.D course credit requirement.
- Course requirements of related departments as well as interdisciplinary one should be satisfied.
- STE998(MS Internship, 1credits) : The MS course requires the completion.
- STE999(Ph.D Internship. 3credits) : The Ph.D course requires the completion.

### □ MS Program (Graduation Credits : at least 36 credits)

#### A. General Courses : 3 credits

- 1 course of CC510 (Introduction to Computer Application), CC511 (Probability and Statistics), CC513 (Engineering Economy and Cost Analysis), CC530(Entrepreneurship and Business Strategies), CC500(Science Writing in English), CC512(Introduction to Materials and Engineering)
- Require the completion of CC010(Leadership class, non-credit)

#### B. Interdisciplinary Mandatory Major Courses : 3 credits

- The MS course requires the completion of STE505(Semiconductor Process Laboratory)

#### C. Interdisciplinary Elective Major Courses : At least 9 credits

Every student must select at least 3 courses among the designated elective major courses.

#### D. Mandatory / Elective Major Courses in the Related Departments : at least 9 credits

Every student must select at least 3 courses among the designated Related departments mandatory/elective major

#### E. Research : At least 6 credits

- Every student must have at least 6 credits in thesis research, individual research, seminar, etc. (Research courses may be substituted by ones in their department)
- The MS course requires the completion of STE998(MS Internship)

### □ Ph.D Program (Graduation Credits : at least 72 credits)

#### A. General Course : 3 credits

It is the same as for the MS course. (If the student has already taken this course during his MS program, then it does not have to be taken again.)

#### B. Interdisciplinary Mandatory Major Courses : 6 credits

- In addition to the courses taken in the MS program, every student must take at least 2 courses which the interdisciplinary program provides.
- STE505(Semiconductor Process Laboratory), STE605(Fundamentals of Memory Devices)

#### C. Interdisciplinary Elective Major Course : at least 18 credits

In addition to the courses taken in the MS program, every student must take at least 6 courses which the interdisciplinary program provides.

#### D. Mandatory / Elective Major Courses in the Related Departments : at least 15 credits

In addition to the courses taken in the MS program, every student must take at least 5 courses which the interdisciplinary program provides.

#### E. Research : at least 30 credits

- Students must have at least 30 credits in thesis research, individual research, seminar, etc. (Research courses may be substituted by ones in their department)

- The Ph.D course requires the completion of STE999(Ph.D Internship)