

**Semiconductor Technology Educational Program**  
**Course Requirements**  
**(M.S. Degree)**

**Thesis Master's Degree**

- **Graduation Credits** : at least 33 credits
  
- **Mandatory General Course** : 3 credits and 1AU
  
- **Interdisciplinary Mandatory Elective Major Courses** : 3 credits
  - 1 course of STE505(Semiconductor Process Laboratory), EE571(Advanced Electronic Circuits), CS550(Software Engineering)
  
- **Interdisciplinary Elective Major Courses** : At least 9 credits
  - Every student must select at least 3 courses among the designated elective major courses.
  
- **Mandatory / Elective Major Courses in the Related Departments** : at least 6 credits
  - Every student must select at least 2 courses among the designated Related departments mandatory/elective major.
  
- **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)

※ Course requirements of related departments as well as interdisciplinary one should be satisfied.

**Non-thesis Master's Degree**

The same as top

- **Measures for Changes**
  - \* Substitutional course changes
  - The students who joined this program after the year 2009 : Take only 1 course out of EE665(CMOS Front-End Process Technology) and MS696(Special Topics in Advanced Materials I).
  - The students who joined this program before the year 2009 : Take only 1 course out of EE665(CMOS Front-End Process Technology) and MS635(Semiconductor Integrated Process Design).

## Semiconductor Technology Educational Program

### Course Requirements

#### (Ph.D. Degree)

■ **Graduation Credits** : at least 60 credits

■ **Mandatory General Course** : 3 credits and 1AU

- 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.)

■ **Interdisciplinary Mandatory Elective 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.

- 2 course of STE505(Semiconductor Process Laboratory), STE605(Semiconductor Memory Devices and SoC Designs), EE571(Advanced Electronic Circuits), CS550(Software Engineering)

■ **Interdisciplinary Elective Major Courses** : At least 12 credits

- In addition to the courses taken in the MS program, every student must take at least 4 courses which the interdisciplinary program provides.

■ **Mandatory / Elective Major Courses in the Related Departments** : at least 9 credits

- In addition to the courses taken in the MS program, every student must take at least 3 courses which the interdisciplinary program provides.

■ **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)

□ **Measures for Changes**

\* Substitutional course changes

- The students who joined this program after the year 2009 : Take only 1 course out of EE665(CMOS Front-End Process Technology) and MS696(Special Topics in Advanced Materials I).

- The students who joined this program before the year 2009 : Take only 1 course out of EE665(CMOS Front-End Process Technology) and MS635(Semiconductor Integrated Process Design).