

MASTER OF SCIENCE ELECTRICAL AND COMPUTER ENGINEERING
2010-2011 DEGREE REQUIREMENTS
GT-KAIST dual MS Program

FIRST YEAR - FALL	COURSE TYPE	COURSE HRS	LOCATION	MODALITY	TOTAL SEM HRS
ECE 6100 – Advanced Computer Architecture	C	3-0-3	GT-ATL	C	3
ECE 6133 – Physical Design Automation VLSI System	C	3-0-3	GT-ATL	C	3
ECE 6412 – Analog Integrated Circuit Design	E	3-0-3	GT-ATL	C	3
MATH 4581 – Classical Math Methods in Engineering	M	3-0-3	GT-ATL	C	3
					12
FIRST YEAR – SPRING	COURSE TYPE	COURSE HRS	LOCATION	MODALITY	TOTAL SEM HRS
ECE 6130 – Advanced VLSI Systems	C	3-0-3	GT-ATL	C	3
ECE 6602 – Digital Communications	C	3-0-3	GT-ATL	C	3
ECE 6458 – Gigascale Integration	E	3-0-3	GT-ATL	C	3
MATH 4583 – Vector Analysis	M	3-0-3	GT-ATL	C	3
					12
SECOND YEAR - FALL	COURSE TYPE	COURSE HRS	LOCATION	MODALITY	TOTAL SEM HRS
CC 530 – Entrepreneurship and Business Strategies	Mandatory	3-0-3	KAIST	C	3
CC 020 – Ethics and Safety	Mandatory	1-0-0	KAIST	C	0
EE 574 – CAD for VLSI Circuits and Systems	Elective	3-0-3	KAIST	C	3
EE 573 – Introduction to VLSI Systems	Elective	3-0-3	KAIST	C	3
EE 571 – Advanced Electric Circuits	Elective	3-0-3	KAIST	C	3
					12
SECOND YEAR - SPRING	COURSE TYPE	COURSE HRS	LOCATION	MODALITY	TOTAL SEM HRS
EE 505 – Electronics Design Labs	Mandatory	1-6-3	KAIST	C	3
EE 678 – Digital Integrated Circuits	Elective	3-0-3	KAIST	C	3
EE 686 – Optimization Theory	Elective	3-0-3	KAIST	C	3
EE 878 – Special Topics in VLSI	Elective	3-0-3	KAIST	C	3
					12
					48

Notes:

1. Show Course Type. EX: Prerequisite (P), Core (C), Elective (E), Minor (M)
2. Show Location the course will be taken/completed. EX: GT-ATL, GT-SAV, GT-L, name of other institution
3. Show the Modality, i.e., classroom (C), video (V), distance learning (DL), etc.

Summer Semester " <u>Indicate Summer Term</u> "	COURSE TYPE	COURSE HRS	LOCATION	MODALITY	TOTAL SEM HRS
					0
International Work, Internship, or Research Experience					

Note 1: This sample study plan is for the GT students with interest in VLSI circuit design and CAD. In general, KAIST students will follow a similar study plan, where they spend the first year at KAIST and the second at GT. However, it is also possible that students from both schools finish these four semesters in any sequence.

Note 2: This plan assumes that 6 credit hours are transferred in both directions to satisfy 30-hour requirement for both GT-ECE and KAIST-EE.