BACHELOR OF SCIENCE IN COMPUTER ENGINEERING
2009 - 2010 DEGREE REQUIREMENTS
GT-KAIST dual BS Program

FIRST YEAR - FALL	COURSE TYPE	COURSE HRS	LOCATION	MODALITY	TOTAL SEM HRS
MATH 1501: CALCULUS I	C	4	KAIST	C	
* ENGL 1101: ENGLISH COMPOSITION I	C	3	KAIST/GT	C	
CHEM 1310: GENERAL CHEMISTRY	C	4	KAIST	C	
CS 1371: COMPUTING FOR ENGINEERS	C	3	KAIST	C	
* HPS 1040: HEALTH CONCEPTS & STRATEGIES	C	2	KAIST/GT	C	
					16

FIRST YEAR – SPRING	COURSE TYPE	COURSE HRS	LOCATION	MODALITY	TOTAL SEM HRS
MATH 1502: CALCULUS II	C	4	KAIST	C	
* ENGL 1102: ENGLISH COMPOSITION II	C	3	KAIST/GT	C	
PHYS 2211: INTRODUCTORY PHYSICS I	C	4	KAIST	C	
CS 1372: PROGRAM DESIGN FOR ENGINEERS	E	3	KAIST	C	
ECE 2030: INTRODUCTION TO COMPUTER ENGINEERING	C	3	KAIST	C	
					17

SECOND YEAR – FALL	COURSE TYPE	COURSE HRS	LOCATION	MODALITY	TOTAL SEM HRS
ECE 2025: INTRODUCTION TO SIGNAL PROCESSING	C	4	KAIST	C	
* HIST 2111, HIST 2112, POL 1101, PUBP 3000, or INTA 1200	C	3	KAIST/GT	C	
MATH 2401: CALCULUS III	C	4	KAIST	C	
PHYS 2212: INTRODUCTORY PHYSICS II	C	4	KAIST	C	
HUMANITIES ELECTIVE	E	3	KAIST	C	
					18

SECOND YEAR – SPRING	COURSE TYPE	COURSE HRS	LOCATION	MODALITY	TOTAL SEM HRS
ECE 2031: DIGITAL DESIGN LAB	C	2	KAIST	C	
ECE 2040: CIRCUIT ANALYSIS	C	3	KAIST	C	
MATH 2403: DIFFERENTIAL EQUATIONS	C	4	KAIST	C	
SCIENCE ELECTIVE (CHEM, PHYS, BIOL, EAS)	E	3	KAIST	C	
ECE 3035: MECHANISMS FOR COMPUTING SYSTEMS	C	4	KAIST	C	
					16

THIRD YEAR – FALL	COURSE TYPE	COURSE HRS	LOCATION	MODALITY	TOTAL SEM HRS
ECE 3040: MICROELECTRONIC CIRCUITS	C	4	GT	C	
ECE 3041: INSTRUMENTATION & CIRCUITS LAB	C	2	GT	C	
ECE 3055: COMPUTER ARCH & OPERATING SYSTEMS	C	4	GT	C	
ECON 2100 or 2101 or 2105 or 2106	E	3	GT	C	
DISCRETE MATH ELECTIVE	E	3	GT	C	
					16

THIRD YEAR – SPRING	COURSE TYPE	COURSE HRS	LOCATION	MODALITY	TOTAL SEM HRS
ECE 3042: MICROELECTRONIC CIRCUITS LAB	C	2	GT	C	
ECE 3060: VLSI & ADVANCED DIGITAL DESIGN	C	4	GT	C	
ECE 3025: ELECTROMAGNETICS	C	3	GT	C	
ENGINEERING ELECTIVE	E	3	GT	C	
APPROVED ELECTIVE	E	3	GT	C	
SOCIAL SCIENCE ELECTIVE	E	3	GT	C	
					18

FOURTH YEAR – FALL	COURSE TYPE	COURSE HRS	LOCATION	MODALITY	TOTAL SEM HRS
ECE 4001: ENGINEERING PRACTICE AND PROF	C	2	GT	C	
ECE/CS ELECTIVE	E	3	GT	C	
ENGINEERING ELECTIVE	E	3	GT	C	
APPROVED ELECTIVE	E	3	GT	C	
HUMANITIES ELECTIVE	E	3	GT	C	
					14
FOURTH YEAR – SPRING	COURSE TYPE	COURSE HRS	LOCATION	MODALITY	TOTAL SEM HRS
ECE 4007: ECE CULMINATING DESIGN PROJECT	C	4	GT	C	
ECE/CS ELECTIVES	E	7	GT	C	
SOCIAL SCIENCE ELECTIVE	E	3	GT	C	
APPROVED ELECTIVE	E	3	GT	C	
					17
					132

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.**

Further Notes:

Note 1: This sample study plan is for the students completing the first two years at KAIST and the last two years at GT. This program is based on the assumption that these students transfer 65 credits taken at KAIST towards the degree requirements for GT, vice versa.

Note 2: The following classes (shown in bold in the table above) require further discussion on whether the students need to take them at GT or can transfer credits from KAIST:

- ENGL 1101: ENGLISH COMPOSITION I
- ENGL 1102: ENGLISH COMPOSITION II
- HPS 1040: HEALTH CONCEPTS & STRATEGIES
- HIST 2111 (US HISTORY TO 1870), HIST 2112 (US HISTORY SINCE 1870), POL 1101 (US GOVERNMENT), PUBP 3000 (CONSTITUTIONAL ISSUES), OR INTA 1200 (AMERICAN GOVERNMENT)