

## CSIE(NW)-EEIC double Major (for intake 2006-2007)

**Assumption: First major is CSIE (networking), Second Major is EEIC**

Grey: EEIC requirement that overlap with CSIE (NW)

Black: additional courses that CSIE(NW) students who wish to pursue double major with EEIC need to take.

### Curriculum for BEng in Electronic Engineering (Information and Communication Engineering)

#### Core courses

ELEC	102	Electronic Circuits I	[3-1-3:5]	
ELEC	151	Digital Circuits and Systems	[3-1-2:4]	count as FREE of CSIE-NW
ELEC	152	Computer Organization	[3-0-1:3]	to be substituted by COMP180
ELEC	210	Probability and Random Processes in Engineering	[3-1-0:4]	
ELEC	211	Signals and Systems	[3-1-0:4]	
ELEC	214	Communication Systems	[3-1-3:5]	
ELEC	254	Microprocessor Experiments	[1-1-3:3]	count as COMP/ELEC [3 credits] of CSIE-NW
ELEC	290	Introduction to Electronic and Computer Technology	[2-0-0-1]	count as FREE of CISE-NW
IELM	311	Engineers in Society	[1-0-0:1]	

#### Required courses

ELEC	098	Industrial Training	[0 credit]	take some additional module
ELEC	314	Digital Communications	[3-1-0:3]	
ELEC	397	Final Year Project I	[0-0-6:1]	} To be replaced by 200-level or above ELEC electives (at least 9 credits)
ELEC	398	Final Year Project II	[0-0-9:4]	
ELEC	399	Final Year Project III	[0-0-12:4]	
COMP	104	Programming Fundamentals and Methodology	[3-1-2:4]	
COMP	151	Object-Oriented Programming	[3-0-2:3]	
COMP	171	Data Structures and Algorithms	[3-2-0:3]	
ECON	115	Engineering Economics and Finance	[2-1-0:2]	count as FREE of CSIE-NW
MATH	100	Introduction to Multivariable Calculus	[2-1-0-2]	count as FREE of CSIE-NW
MATH	113	Introduction to Linear Algebra	[2-1-0:2]	
MATH	150	Introduction to Ordinary Differential Equations	[2-1-0:2]	

#### Elective courses

Elective types		Minimum no. of courses	Minimum total credits
EEIC	Information and Communication Engineering Elective	8	24
SB&M	Business and Management Elective	1	2

## General Education Requirements

Electives must be selected from amongst those general education courses that are listed under the section “Designated General Education Courses” .

Elective types		Minimum no. of courses	Minimum total credits	
[	GEE(SCIE)	Science General Education Elective	-	12
	or GEE(SB&M)	Business and Management General Education Elective		
	or GEE(H&SS)	Humanities and Social Science General Education Elective		

## Required Courses in English Communication

LANG 106 English for Engineering Students I	[0-2-0:1]
LANG 206 English for Engineering Students II	[0-2-0:1]
LANG 306 English for Engineering Students III	[0-2-0:1]

## Other Requirements

ELEC 195 Academic and Professional Development I	[0 credit]	waived
ELEC 295 Academic and Professional Development II	[0 credit]	
HLTH 001 Healthy Life Style	[0 credit]	

## COMP/ELEC electives

EEIC: 24 credits + 9 credits replacing FYP = 33 credits

COMP211, COMP271 + two COMP2XX courses (COMP251, COMP252) can be counted as EEIC electives

Need to overload 33 credits (11 courses) – 12 credits (4 courses) = 21 credits (7 courses)

## Summary :

CSIE(NW) students who wish to double major EEIC should do the following

- fulfill all requirements of CSIE(NW), but take the courses shown in black (ELEC151, ELEC254, ELEC290, ECON115, MATH100) as the FREE/COMP/ELEC electives of CSIE(NW) without overloading
- overload 21 credits (7 courses) of EEIC electives.