

(For all students in the Program)

## Undergraduate Minor Program in Design

The Minor Program in Design is designed mainly for engineering students, but is also open to all students to apply. Any undergraduate students with an overall CGA of 2.5 or above may enroll in this Minor Program. Students must declare their intention to enroll in the Minor Program no earlier than the first regular term of their second year of study but no later than the last day of the add/drop period in the first regular term of their final year of study. Students who wish to withdraw from the Minor Program should apply before the last day of the add/drop period in the last regular term of their final year of study.

### Minor Requirements

To graduate with a minor in Design, the students must have enrolled in the Minor Program and completed a minimum total of 18 credits and all of its requirements, as well as all the requirements of their major program of study.

For credit transfer, students can transfer a maximum total of 6 credits to the Minor Program.

Out of the total credits required by the minor program, at least 9 credits should be single-counted within the minor and are not used to fulfill any other requirements for graduation except the 120-credit degree requirement.

### Required Course(s)

			<b>Credit(s) attained</b>
IELM/HART		Note: IELM 2145 <u>OR</u> IELM 2150 <u>OR</u> HART 1001 <u>OR</u> HART 1036 (6 credits out of 4 design foundation courses)	6
	IELM 2145	Design Studio	3
	IELM 2150	Product Design	3
	HART 1001	Arts and Creativity	2
	HART 1036	Introduction to Graphic Design	1
IELM	4320	Design Thinking	3
IELM/MARK		Note: IELM 4650 <u>OR</u> MARK 3220 <u>OR</u> MARK 3450	3-4
	IELM 4650	Engineering Psychology	3
	MARK 3220	Marketing Research	4
	MARK 3450	Analytical Techniques for Product Marketing	4

### Elective(s)

			<b>Minimum credit(s) required</b>
SENG		Design Focus Electives (Courses from the specified elective list. No more than one course within the same course groups of ELEC 3300 / IELM 2100 / MECH 2907 and IELM 4170 / MECH 3510 may be counted towards the elective requirement.)	6
	IELM 2100	Computing in Industrial Applications	3
	IELM 3130	Ergonomics and Safety Management	3
	IELM 4170	Product Design and Lifecycle Management	3
	BIEN 3010	Biodesign: A Taste of Solving Real-Life Healthcare Problems	3

COMP	4411	Computer Graphics	3
COMP	4451	Game Programming	3
COMP	4521	Mobile Application Development	3
ELEC	3300	Introduction to Embedded Systems	4
ELEC	4170	Digital Media and Multimedia Applications	4
MECH	2907	Mechatronic Design and Prototyping	3
MECH	3510	CAD/CAM	3