

Curriculum Structure of Institute of Innovative Semiconductor Manufacturing (Applicable to freshmen admitted in 2026/9)

Grade	Semester	Compulsory Courses	Elective Courses
Grad 1	First Semester	<p style="text-align: center;">Must sign up for all compulsory courses:</p> <ul style="list-style-type: none"> ● Semiconductor Devices and Physics ● Semiconductor Manufacturing Technology 	<p style="text-align: center;">Must enroll in at least 2 courses</p> <ul style="list-style-type: none"> ● Thin-Film Technology of Semiconductor ● Optoelectronics Semiconductor Technology ● Microsystem Technologies ● Advanced Semiconductor Technology ● Advanced Semiconductor Lithography Technology ● Artificial Intelligence Theory and Applications ● Semiconductor Reliability Engineering ● Nanoelectronic Devices and Processes ● Semiconductor Wafer Bonding Technology And Application
	Second Semester	<p style="text-align: center;">Must sign up for one compulsory course:</p> <ul style="list-style-type: none"> ● Advanced topics in Semiconductor Specialty Technologies 	<p>Must enroll in at least 3 courses in the 2nd semester; only 1 Independent Study course may be counted toward graduation credits.</p> <ul style="list-style-type: none"> ● Semiconductor Materials and Analysis ● Advanced Semiconductor Manufacturing Process ● Electrical Measurement and Analysis of Semiconductor Devices ● Micro Sensor Chip Design ● Advanced Semiconductor Memory Technology ● Semiconductor Equipment ● Thin-Film Technology Practices and Applications ● Independent Studies(I) ● Independent Studies In Smart-Sensing Microchips Design