

## Required Credits for graduation for Doctorate course and Integrated Course

- Students who entered in or after 2014

학과	박사과정			박사과정			석·박사통합과정			
	(2014~2016 입학생)			(2017 이후 입학생)						
	전공	연구	계	전공	연구	계	전공	연구	계	
Mechanical Engineering	60	9	69	36	9	45	54	9	63	
Industrial Engineering	60	9	69	36	9	45	54	9	63	
Chemical Engineering	54	15	69	30	15	45	48	15	63	
Material Engineering	54	15	69	30	15	45	51	12	63	
Environmental Engineering	54	15	69	30	15	45	48	15	63	
Civil Systems Engineering	54	15	69	30	15	45	48	15	63	
Transportation Engineering	54	15	69	30	15	45	48	15	63	
Architecture	54	15	69	30	15	45	54	9	63	
Architectural Engineering	54	15	69	30	15	45	54	9	63	
Systems Engineering	54	15	69	30	15	45	48	15	63	
Urban Development	54	15	69	30	15	45	54	9	63	
Smart Convergence Architecture	-	-	-	30	15	45	48	15	63	
Electrical and Computer Engineering	54	15	69	30	15	45	48	15	63	
Computer Engineering	54	15	69	30	15	45	48	15	63	
Cyber Security	-	-	-	30	15	45	48	15	63	
Artificial Intelligence	-	-	-	30	15	45	48	15	63	
Digital Media	54	15	69	30	15	45	48	15	63	
Mathematics	54	15	69	30	15	45	48	15	63	
Physics	54	15	69	30	15	45	48	15	63	
Chemistry	54	15	69	30	15	45	48	15	63	
Biological Science	54	15	69	30	15	45	48	15	63	
Business Administration	60	9	69	36	9	45	54	9	63	
Business Analytics and Information Systems	60	9	69	36	9	45	54	9	63	
Global Management	60	9	69	36	9	45	54	9	63	
Korean Language and Literature	60	9	69	36	9	45	54	9	63	
English Language and Literature	57	12	69	33	12	45	54	9	63	
French Language and Literature	60	9	69	36	9	45	54	9	63	
Economics	60	9	69	36	9	45	54	9	63	
Psychology	60	9	69	36	9	45	54	9	63	
Applied Sociology	54	15	69	30	15	45	54	9	63	
Political Science and Diplomacy	54	15	69	30	15	45	54	9	63	
Public Administration	54	15	69	30	15	45	54	9	63	
Law	60	9	69	36	9	45	54	9	63	
Medical Sciences	60	9	69	36	9	45	54	9	63	
Biomedical Sciences	60	9	69	36	9	45	54	9	63	
Nursing Sciences	57	12	69	33	12	45	51	12	63	
Pharmacy	entered in 2014	57	12	69	-	-	-	51	12	63
	entered from 2015 to 2016	54	15	69	-	-	-	48	15	63
	entered from 2017	-	-	-	30	15	45			
Energy Systems Research	54	15	69	30	15	45	48	15	63	
Molecular Science and Technology	54	15	69	30	15	45	48	15	63	
AI and Data Science	-	-	-	30	15	45	48	15	63	
Education	57	12	69	33	12	45	-	-	-	
Financial Engineering	60	9	69	36	9	45	54	9	63	
Space Electronics and Information Engineering	54	15	69	30	15	45	48	15	63	
Applied Bio Technology	54	15	69	30	15	45	48	15	63	
Artificial Intelligence Convergence Network	-	-	-	30	15	45	48	15	63	
Systems Biomedical Informatics	54	15	69	30	15	45	48	15	63	
Life Media	60	9	69	36	9	45	54	9	63	
Digital Humanities&Convergence	-	-	-	36	9	45	54	9	63	