

Nano Degree Course List

English Translation

Instructor names are romanized for reference; official English spellings may differ.

Category	Nano Degree Program	No.	Semester	Offering Department	Course Code	Course Title	Instructor	Course Classification	Credits	Completion Requirement
Mini Interdisciplinary Major	Great Books Discussion Leadership	1	Spring	General Education	0010152	Seminar on Citizenship and Issues of Justice	Hwang Seunghyeon	Core General Education	2	Elective Group 1
Mini Interdisciplinary Major	Great Books Discussion Leadership	2	Spring	General Education	0010154	Seminar on the Emergence of the Modern Intellectual	Yoon Yeongdon	Core General Education	3	Elective Group 1
Mini Interdisciplinary Major	Great Books Discussion Leadership	3	Spring	Department of Ethics Education	0010498	Seminar on Classics in Political Philosophy	Lee Sangwon	Advanced Major	3	Elective Group 1
Mini Interdisciplinary Major	Great Books Discussion Leadership	4	Fall	Department of English Education	0010103	Discussion Seminar on English Classics	Choi Yujeong	Major Core	3	Elective Group 1
Mini Interdisciplinary Major	Great Books Discussion Leadership	5	Fall	Department of English Language and Literature	0009840	Seminar on Classical Literature	Hwang Seunghyeon	Advanced Major	3	Elective Group 1
Mini Interdisciplinary Major	Regional Culture Planning	1	Fall	Interdisciplinary Major in Humanities, Culture and Arts Planning	0010519	Community-Linked Project	Jang Seokryu	Major Core	3	Required
Mini Interdisciplinary Major	Regional Culture Planning	2	Fall	Department of French Language and Literature	0007839	Study of Regional Cultural Infrastructure	Han Sangjeong	Advanced Major	3	Required
Mini Interdisciplinary Major	Regional Culture Planning	3	Fall	Department of Japanese Regional Culture	0010618	Regions and Storytelling	Nam Sanguk	Advanced Major	3	Required
Mini Interdisciplinary Major	Culture and Arts Planning	1	Spring	Interdisciplinary Major in Humanities, Culture and Arts Planning	0009562	Field Practice in Culture and Arts Planning	Han Sangjeong	Major Core	3	Required
Mini Interdisciplinary Major	Culture and Arts Planning	2	Spring	Interdisciplinary Major in Humanities, Culture and Arts Planning	0011185	Arts Management and Policy	Jang Seokryu	Major Core	3	Required
Mini Interdisciplinary Major	Culture and Arts Planning	3	Spring	Department of French Language and Literature	0011412	Understanding Culture and the Arts	Han Sangjeong	Advanced Major	3	Required
Mini Interdisciplinary Major	Photonic Devices	1	Spring	Interdisciplinary Major in Photonics Engineering	0010511	Optoelectronic Physics	Lee Jinho	Major Core	3	Required
Mini Interdisciplinary Major	Photonic Devices	2	Fall	Department of Physics	BKB6013	Electromagnetism (1)	Park Yeongmi	Major Core	3	Required
Mini Interdisciplinary Major	Photonic Devices	3	Spring	Interdisciplinary Major in Photonics Engineering	0010512	Optoelectronic Semiconductor Devices	Moon Byeonghui	Advanced Major	3	Required
Mini Interdisciplinary Major	Understanding Photons and Applied Technologies	1	Spring	Interdisciplinary Major in Photonics Engineering	0010511	Optoelectronic Physics	Lee Jinho	Major Core	3	Required
Mini Interdisciplinary Major	Understanding Photons and Applied Technologies	2	Spring	Department of Physics	BKB6002	Modern Physics (1)	Jang Yeongrok	Major Core	3	Required
Mini Interdisciplinary Major	Understanding Photons and Applied Technologies	3	Fall	Department of Physics	BKB6040	Optoelectronic Devices	Lee Jinho	Advanced Major	3	Required
Mini Interdisciplinary Major	Pharmaceutical Research and Development Specialist	1	Spring	Department of Chemistry	BKC6001	Organic Chemistry (1)	Shim Minseok	Major Core	3	Required
Mini Interdisciplinary Major	Pharmaceutical Research and Development Specialist	2	Spring	Department of Chemistry	0007809	Medicinal Synthetic Chemistry	Kim Jinho	Advanced Major	3	Required
Mini Interdisciplinary Major	Pharmaceutical Research and Development Specialist	3	Fall	Major in Molecular Life Science	0007880	Molecular Pathology	Lee Misu	Advanced Major	3	Required
Mini Interdisciplinary Major	Global Sourcing in the Fashion Industry	1	Spring	Department of Fashion Industry	0011421	Understanding the Global Fashion Industry	Lim Sujeong	Major Core	3	Required
Mini Interdisciplinary Major	Global Sourcing in the Fashion Industry	2	Fall	Department of Fashion Industry	0006035	Performance of Apparel Materials	Cho Yungyeong	Advanced Major	3	Required
Mini Interdisciplinary Major	Global Sourcing in the Fashion Industry	3	Fall	Division of International Trade	KB02004	English for International Trade (1)	Ahn Yeonghyo	Advanced Major	3	Required
Mini Interdisciplinary Major	Fashion and Product Design	1	Spring	Department of Fashion Industry	0010820	Fashion Design Studio I	Lee Hyeonseung	Advanced Major	3	Required
Mini Interdisciplinary Major	Fashion and Product Design	2	Fall	Department of Fashion Industry	0008673	Digital Fashion Design	Kim Seonhui	Advanced Major	3	Required
Mini Interdisciplinary Major	Fashion and Product Design	3	Fall	Division of Design	0010993	User Experience Design	Seo Myeongwon	Advanced Major	2	Required
Mini Interdisciplinary Major	Data Analysis and Storytelling	1	Spring	Interdisciplinary Major in Social Data Science	0009565	Introduction to Data Science	Kim Gyuhwan	Major Core	3	Required
Mini Interdisciplinary Major	Data Analysis and Storytelling	2	Spring	Department of Library and Information Science	0010843	Data Analysis and Visualization	Wang Rin	Advanced Major	3	Required
Mini Interdisciplinary Major	Data Analysis and Storytelling	3	Fall	Department of Library and Information Science	0010847	Data Literacy	Jang Suhyeon	Advanced Major	3	Required
Mini Interdisciplinary Major	Big Data-Based Decision-Making and Policy	1	Spring	Interdisciplinary Major in Social Data Science	0009565	Introduction to Data Science	Kim Gyuhwan	Major Core	3	Required
Mini Interdisciplinary Major	Big Data-Based Decision-Making and Policy	2	Spring	Department of Creative Human Resource Development	0009401	Practical Human Resource Data Analysis	Yoo Hyeonju	Advanced Major	3	Required
Mini Interdisciplinary Major	Big Data-Based Decision-Making and Policy	3	Fall	Department of Creative Human Resource Development	0010598	Human Resource Development Policy Using Big Data	Yoo Hyeonju	Advanced Major	3	Required
Mini Interdisciplinary Major	International Political Economy Trends Analyst	1	Spring	Department of Political Science and International Relations	CFC6095	International Political Economy	Lee Hyowon	Advanced Major	3	Required
Mini Interdisciplinary Major	International Political Economy Trends Analyst	2	Fall	Department of Political Science and International Relations	0010070	Contemporary Issues in International Politics	Park Yohan	Advanced Major	3	Required

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Mini Interdisciplinary Major	International Political Economy Trends Analyst	3	Fall	Division of International Trade	KBB6038	International Negotiation	Ko Bomin	Advanced Major	3	Required
Mini Interdisciplinary Major	Practical Training in Social Finance	1	Spring	General Education	0003604	Social Enterprise	Yang Junho	Advanced General Education	3	Required
Mini Interdisciplinary Major	Practical Training in Social Finance	2	Spring	Department of Economics	KBA6083	Financial Economics	Kim Junsik	Advanced Major	3	Required
Mini Interdisciplinary Major	Practical Training in Social Finance	3	Fall	Department of Economics	KBA6092	Social Economics	Yang Junho	Advanced Major	3	Required
Mini Interdisciplinary Major	Consumer Society Survey Analysis	1	Spring	Department of Consumer Science	0009415	Quantitative Consumer Research	Kim Uhyeok	Major Core	3	Required
Mini Interdisciplinary Major	Consumer Society Survey Analysis	2	Fall	Division of International Trade	0001254	Statistics	Kim Junsik	Major Core	3	Required
Mini Interdisciplinary Major	Consumer Society Survey Analysis	3	Fall	Department of Consumer Science	0009426	Consumer Typology Analysis	Kim Uhyeok	Advanced Major	3	Required
Mini Interdisciplinary Major	Autonomous Driving Perception	1	Spring	Interdisciplinary Major in Future Mobility	0011246	Introduction to Future Mobility	Yoon Hansin	Major Foundation	3	Required
Mini Interdisciplinary Major	Autonomous Driving Perception	2	Fall	Department of Information and Telecommunication Engineering	EI06024	Artificial Intelligence	Min Yunhong	Advanced Major	3	Required
Mini Interdisciplinary Major	Autonomous Driving Perception	3	Fall	Department of Electrical Engineering	0003423	Sensor Engineering	Lee Yeongseop	Advanced Major	3	Elective Group 1
Mini Interdisciplinary Major	Autonomous Driving Perception	4	Fall	Division of Computer Science and Engineering	IAA6036	Computer Vision	Lee Jangho	Advanced Major	3	Elective Group 1
Mini Interdisciplinary Major	Future Eco-Friendly Vehicles	1	Spring	Interdisciplinary Major in Future Mobility	0011246	Introduction to Future Mobility	Yoon Hansin	Major Foundation	3	Required
Mini Interdisciplinary Major	Future Eco-Friendly Vehicles	2	Spring	Interdisciplinary Major in Future Mobility	0011248	Future Eco-Friendly Vehicle Systems	Yoon Hansin	Major Foundation	1	Required
Mini Interdisciplinary Major	Future Eco-Friendly Vehicles	3	Fall	Department of Electrical Engineering	0010900	Mobility Embedded Systems	Kang Dongu	Advanced Major	3	Required
Mini Interdisciplinary Major	Future Smart Cars	1	Spring	Interdisciplinary Major in Future Mobility	0011247	Future Autonomous Driving Systems	Lee Myeonghun	Major Foundation	1	Required
Mini Interdisciplinary Major	Future Smart Cars	2	Spring	Interdisciplinary Major in Future Mobility	0011599	Vehicle Dynamics and Control	Lee Donggil	Advanced Major	3	Required
Mini Interdisciplinary Major	Future Smart Cars	3	Fall	Department of Electrical Engineering	0003178	Systems Control	Lee Myeonghun	Major Core	3	Required
Mini Interdisciplinary Major	Intelligent Robotics	1	Spring	Department of Mechanical Engineering	0001865	Robotics	Kim Uyong	Advanced Major	3	Required
Mini Interdisciplinary Major	Intelligent Robotics	2	Fall	Department of Electronics Engineering	0008865	Deep Learning	Cho Hwanho	Advanced Major	3	Required
Mini Interdisciplinary Major	Intelligent Robotics	3	Spring	Department of Electronics Engineering	EPC6027	Control Engineering	Hong Yeonchan	Advanced Major	3	Elective Group 1
Mini Interdisciplinary Major	Intelligent Robotics	4	Fall	Department of Mechanical Engineering	0003413	Control Engineering	Hong Yeonchan	Advanced Major	3	Elective Group 1
Mini Interdisciplinary Major	Data Analytics 2	1	Spring	Department of Industrial and Management Engineering	0009462	Digital Business	Kim Jaegon	Advanced Major	3	Required
Mini Interdisciplinary Major	Data Analytics 2	2	Spring	Department of Industrial and Management Engineering	FE06064	Data Mining	Ryu Dohyeon	Advanced Major	3	Required
Mini Interdisciplinary Major	Data Analytics 2	3	Spring	Division of Computer Science and Engineering	0001770	Database Systems	Kang Ucheol	Major Core	3	Elective Group 1
Mini Interdisciplinary Major	Data Analytics 2	4	Fall	Department of Industrial and Management Engineering	EPG7006	Database Systems	Kang Ucheol	Advanced Major	3	Elective Group 1
Mini Interdisciplinary Major	Engineering Design	1	Spring	Department of Mechatronics Engineering	0001831	Machine Element Design	Woo Changgi	Major Core	3	Required
Mini Interdisciplinary Major	Engineering Design	2	Spring	Department of Industrial and Management Engineering	0009464	Product Design and Development	Park Gijeong	Major Elective	3	Required
Mini Interdisciplinary Major	Engineering Design	3	Spring	Department of Mechatronics Engineering	0009447	CAD Geometric Modeling	Park Sangin	Major Foundation	2	Elective Group 1
Mini Interdisciplinary Major	Engineering Design	4	Spring	Department of Industrial and Management Engineering	EPG6103	CAD/CAM	Yoo Usik	Advanced Major	3	Elective Group 1
Mini Interdisciplinary Major	Applied Artificial Intelligence	1	Fall	Interdisciplinary Major in AI and Entrepreneurship	0010518	Artificial Intelligence Project	Sung Miyeong	Major Core	3	Required
Mini Interdisciplinary Major	Applied Artificial Intelligence	2	Spring	Division of Computer Science and Engineering	0008370	Machine Learning	Kim Uil	Advanced Major	3	Elective Group 1
Mini Interdisciplinary Major	Applied Artificial Intelligence	3	Spring	Division of Computer Science and Engineering	0009483	Artificial Intelligence and Deep Learning	Koo Minseok	Advanced Major	3	Elective Group 1
Mini Interdisciplinary Major	Applied Artificial Intelligence	4	Spring	Division of Computer Science and Engineering	0010085	Data Science	Lee Jangho	Advanced Major	3	Elective Group 1
Mini Interdisciplinary Major	Applied Artificial Intelligence	5	Fall	Division of Computer Science and Engineering	0007853	Introduction to Big Data	Choi Daejin	Advanced Major	3	Elective Group 2
Mini Interdisciplinary Major	Applied Artificial Intelligence	6	Fall	Division of Computer Science and Engineering	0010517	Introduction to Speech Recognition	Kim Uil	Advanced Major	3	Elective Group 2
Mini Interdisciplinary Major	Applied Artificial Intelligence	7	Fall	Division of Computer Science and Engineering	0010925	Natural Language Processing	Shin Yuhyeon	Advanced Major	3	Elective Group 2
Mini Interdisciplinary Major	Applied Artificial Intelligence	8	Fall	Division of Computer Science and Engineering	IAA6036	Computer Vision	Lee Jangho	Advanced Major	3	Elective Group 2

Category	Nano Degree Program	No.	Semester	Offering Department	Course Code	Course Title	Instructor	Course Classification	Credits	Completion Requirement
Mini Interdisciplinary Major	Data and Entrepreneurship (2)	1	Fall	Interdisciplinary Major in AI and Entrepreneurship	0010518	Artificial Intelligence Project	Sung Miyeong	Major Core	3	Required
Mini Interdisciplinary Major	Data and Entrepreneurship (2)	2	Spring	Interdisciplinary Major in AI and Entrepreneurship	0010514	Social Computing	Sung Miyeong	Major Core	3	Elective Group 1
Mini Interdisciplinary Major	Data and Entrepreneurship (2)	3	Spring	General Elective	0005053	Ideas and Entrepreneurship	N/A	General Elective	3	Elective Group 1
Mini Interdisciplinary Major	Data and Entrepreneurship (2)	4	Spring	General Elective	0010624	Startup App Business Models	Choi Byeongjo	General Elective	3	Elective Group 1
Mini Interdisciplinary Major	Data and Entrepreneurship (2)	5	Spring	Division of Computer Science and Engineering	0008370	Machine Learning	Kim Uil	Advanced Major	3	Elective Group 2
Mini Interdisciplinary Major	Data and Entrepreneurship (2)	6	Spring	Division of Computer Science and Engineering	0009483	Artificial Intelligence and Deep Learning	Koo Minseok	Advanced Major	3	Elective Group 2
Mini Interdisciplinary Major	Data and Entrepreneurship (2)	7	Fall	Division of Computer Science and Engineering	0010593	Introduction to Data Science	Park Seongho, Choi Daejin	Advanced Major	3	Elective Group 2
Mini Interdisciplinary Major	Exercise Physiology and Healthcare	1	Spring	Division of Sport Science	HFA6001	Exercise Physiology	Lee Seungyong	Major Core	3	Required
Mini Interdisciplinary Major	Exercise Physiology and Healthcare	2	Spring	Major in Molecular Life Science	Q000033	Human Physiology	Yang Seonggu	Major Core	3	Required
Mini Interdisciplinary Major	Exercise Physiology and Healthcare	3	Fall	Division of Sport Science	0011064	Exercise and Sports Nutrition	Lee Sewon	Advanced Major	2	Required
Mini Interdisciplinary Major	Cultural Heritage Storytelling Education	1	Spring	General Education	0009319	Understanding Engineer Jeong Yak-yong	Jeon Gwanggil	Advanced General Education	3	Elective Group 1
Mini Interdisciplinary Major	Cultural Heritage Storytelling Education	2	Spring	General Education	0009780	Speech Communication in the Convergence Era	Kim Pyeongwon	Advanced General Education	2	Elective Group 1
Mini Interdisciplinary Major	Cultural Heritage Storytelling Education	3	Spring	Department of Korean Language Education	0004864	Theory of Communication Education	Kim Pyeongwon	Major Core	3	Elective Group 1
Mini Interdisciplinary Major	Cultural Heritage Storytelling Education	4	Fall	General Education	0009779	Global Competence and Cultural Content	Kim Yunsin	Advanced General Education	2	Elective Group 1
Mini Interdisciplinary Major	Cultural Heritage Storytelling Education	5	Fall	Department of History Education	0003161	Understanding Cultural Heritage	Lee Hyeongu	Major Core	2	Elective Group 1
Mini Interdisciplinary Major	Discussion-Based Education	1	Spring	General Education	0009780	Speech Communication in the Convergence Era	Kim Pyeongwon	Advanced General Education	2	Required
Mini Interdisciplinary Major	Discussion-Based Education	2	Spring	Department of Korean Language Education	0003616	Theory of Speech Education	Kim Pyeongwon	Advanced Major	3	Required
Mini Interdisciplinary Major	Discussion-Based Education	3	Fall	Teacher Education	0006743	Theory and Practice of Convergence Education	Kim Pyeongwon	Teacher Education	2	Required
Mini Interdisciplinary Major	Future Education Leadership Program (2)	1	Spring	Teacher Education	0011183	Education for a Sustainable Future	Yoon Seonin	Teacher Education	2	Required
Mini Interdisciplinary Major	Future Education Leadership Program (2)	2	Spring	Teacher Education	0011526	Digital Education	Moon Eungyeong	Teacher Education	1	Required
Mini Interdisciplinary Major	Future Education Leadership Program (2)	3	Fall	Department of Ethics Education	CGA6143	Applied Ethics	Yoon Yeongdon	Major Core	3	Required
Mini Interdisciplinary Major	Future Education Leadership Program (2)	4	Fall	Department of English Education	0008824	Humanities English for Character Education	N/A	Advanced Major	3	Required
Mini Interdisciplinary Major	East Asian Citizenship Education (2)	1	Spring	Department of Ethics Education	0004965	East Asian Culture and Ethics	Kim Yungyeong	Major Core	3	Required
Mini Interdisciplinary Major	East Asian Citizenship Education (2)	2	Fall	Department of History Education	0003717	Modern East Asian History	Kim Seonhye	Advanced Major	3	Required
Mini Interdisciplinary Major	East Asian Citizenship Education (2)	3	Fall	Department of Japanese Language Education	0007855	Understanding Multiculturalism and Character Education	Choi Eunhyeok	Advanced Major	3	Required
Mini Interdisciplinary Major	Industrial Biotechnology and Synthetic Biology 2	1	Spring	Major in Biotechnology	0001641	Fermentation Engineering	Seo Myeongji	Advanced Major	3	Required
Mini Interdisciplinary Major	Industrial Biotechnology and Synthetic Biology 2	2	Spring	Major in Nano-Bioengineering	0009633	General Microbiology	Kim Junseop	Advanced Major	3	Required
Mini Interdisciplinary Major	Industrial Biotechnology and Synthetic Biology 2	3	Fall	Major in Biotechnology	BD06122	Biochemistry	Jang Seongho	Advanced Major	3	Required
Mini Matrix	Digital Creative Writing	1	Spring	Department of Korean Language and Literature	0010702	Poetry Writing Workshop	Park Pansik	Advanced Major	3	Required
Mini Matrix	Digital Creative Writing	2	Fall	General Education	0002296	Introduction to Creative Writing	Jeon Byeongjun	Advanced General Education	3	Required
Mini Matrix	Digital Creative Writing	3	Fall	Department of Korean Language and Literature	0010768	Fiction Writing Workshop	Kim Hyeongyeong	Advanced Major	3	Required
Mini Matrix	Language Big Data Specialist	1	Spring	Department of English Language and Literature	0007404	Computational Linguistics (Capstone Design)	Jeong Chaegwan	Advanced Major	3	Required
Mini Matrix	Language Big Data Specialist	2	Spring	Department of English Language and Literature	AIB6103	Practical English (1)	Jeong Chaegwan	Advanced Major	3	Required
Mini Matrix	Language Big Data Specialist	3	Fall	Department of English Language and Literature	0009409	Corpus Linguistics	Jeong Chaegwan	Advanced Major	3	Required
Mini Matrix	Theory of Social Economy	1	Spring	Department of Economics	KBA6006	Economic History	Yang Junho	Major Core	3	Required
Mini Matrix	Theory of Social Economy	2	Spring	Department of Economics	KBA6067	Political Economy	Lee Gapyeong	Advanced Major	3	Required
Mini Matrix	Theory of Social Economy	3	Fall	Department of Economics	0010876	Seminar on Social Economics	Yang Junho	Advanced Major	3	Required
Mini Matrix	Global Tourism Specialist	1	Fall	Division of International Trade	0010470	Introduction to Tourism	Lim Hyeonjeong	Major Core	3	Required
Mini Matrix	Global Tourism Specialist	2	Fall	Division of International Trade	0010471	International Tourism	Jeong Jinyeong	Advanced Major	3	Required
Mini Matrix	Global Tourism Specialist	3	Fall	Division of International Trade	KBB6006	International Marketing	Heo Seung	Advanced Major	3	Required

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Mini Matrix	Global Korean Wave Specialist	1	Spring	Division of International Trade	0010883	Global Korean Wave and Entertainment Management Strategy	Park Yeongeun	Advanced Major	3	Required
Mini Matrix	Global Korean Wave Specialist	2	Fall	Division of International Trade	0010886	Understanding the Global Cultural Content Market	Park Yeongeun	Advanced Major	3	Required
Mini Matrix	Global Korean Wave Specialist	3	Fall	Division of International Trade	0010890	Global Business Capstone Design 2	Ko Bomin	Advanced Major	3	Required
Mini Matrix	Digital Trade and Commerce Specialist	1	Spring	Division of International Trade	GA06108	International Commerce	Ko Bomin	Advanced Major	3	Required
Mini Matrix	Digital Trade and Commerce Specialist	2	Spring	Division of International Trade	0011437	Digital Trade	Ko Bomin	Advanced Major	3	Required
Mini Matrix	Digital Trade and Commerce Specialist	3	Fall	Division of International Trade	0010889	Seminar on Trade Policy	Ko Bomin	Advanced Major	3	Required
Mini Matrix	Financial Data Specialist (2)	1	Spring	Division of International Trade	0001249	Financial Economics	Kim Junsik	Major Core	3	Required
Mini Matrix	Financial Data Specialist (2)	2	Spring	Division of International Trade	0010878	Digital Business Analytics	Kim Gyeongwon	Advanced Major	3	Required
Mini Matrix	Financial Data Specialist (2)	3	Fall	Division of International Trade	0001254	Statistics	Kim Junsik	Major Core	3	Required
Mini Matrix	Financial Data Specialist (2)	4	Fall	Division of International Trade	0010885	Understanding Business Data Science	Kim Gyeongwon	Advanced Major	3	Required
Mini Matrix	Global Content Entrepreneurship Specialist	1	Spring	Division of International Trade	KB02001	Principles of Management	Park Hyeonjun	Major Core	3	Required
Mini Matrix	Global Content Entrepreneurship Specialist	2	Spring	Division of International Trade	0010880	Global Business Capstone Design 1	Park Yeongeun	Advanced Major	3	Required
Mini Matrix	Global Content Entrepreneurship Specialist	3	Spring	General Elective	0010523	Entrepreneurship Project Practicum 1	Jeon Gyeonggu	General Elective	3	Required
Mini Matrix	MICE Planning Specialist 3	1	Spring	Division of International Trade	0006714	MICE Planning	Jeong Jinyeong	Advanced Major	3	Required
Mini Matrix	MICE Planning Specialist 3	2	Spring	Division of International Trade	0010469	Introduction to MICE	Jeong Jinyeong	Advanced Major	3	Required
Mini Matrix	MICE Planning Specialist 3	3	Fall	Division of International Trade	0010888	Trade Exhibition Industry	Jeong Jinyeong	Advanced Major	3	Required
Mini Matrix	Consumer Insights	1	Spring	Department of Consumer Science	0009414	Consumer Big Data Analysis	Kim Uhyeok	Major Core	3	Required
Mini Matrix	Consumer Insights	2	Spring	Department of Consumer Science	0009415	Quantitative Consumer Research	Kim Uhyeok	Major Core	3	Required
Mini Matrix	Consumer Insights	3	Fall	Department of Consumer Science	0009426	Consumer Typology Analysis	Kim Uhyeok	Advanced Major	3	Required
Mini Matrix	Customer Service Specialist	1	Spring	Department of Consumer Science	0007945	Customer Service	Kim Uhyeok	Advanced Major	3	Required
Mini Matrix	Customer Service Specialist	2	Fall	Department of Consumer Science	0009427	Service Market Analysis	Kim Uhyeok	Advanced Major	3	Required
Mini Matrix	Customer Service Specialist	3	Fall	Department of Consumer Science	0009430	Online Consumer Behavior Analysis	Kim Uhyeok	Advanced Major	3	Required
Mini Matrix	Personal Finance and Financial Planning Specialist (2)	1	Spring	Department of Consumer Science	BLC6045	Household Financial Planning	Sung Yeongae	Major Core	3	Required
Mini Matrix	Personal Finance and Financial Planning Specialist (2)	2	Fall	Department of Consumer Science	BLC6052	Household Savings and Investment	Jang Gyeongyeong	Major Core	3	Required
Mini Matrix	Personal Finance and Financial Planning Specialist (2)	3	Fall	Department of Consumer Science	0006764	Insurance Planning	Cho Hyejin	Advanced Major	3	Required
Mini Matrix	Personal Finance and Financial Planning Specialist (2)	4	Spring	Department of Consumer Science	0009411	Financial Education	Cho Hyejin	Advanced Major	3	Elective Group 1
Mini Matrix	Personal Finance and Financial Planning Specialist (2)	5	Spring	Department of Consumer Science	BLC6061	Household Financial Counseling	Kwak Minju	Advanced Major	3	Elective Group 1
Mini Matrix	Model-Based Control	1	Spring	Department of Electrical Engineering	0006706	Electrical Machinery (1)	Heo Jin	Major Core	3	Required
Mini Matrix	Model-Based Control	2	Spring	Department of Electrical Engineering	EPB6023	Power Electronics	Choi Hyeongyu	Major Core	3	Required
Mini Matrix	Model-Based Control	3	Spring	Department of Electrical Engineering	0010457	Control of Electrical Machinery	Kim Junseok	Advanced Major	3	Elective Group 1
Mini Matrix	Model-Based Control	4	Fall	Department of Electrical Engineering	0003178	Systems Control	Lee Myeonghun	Major Core	3	Elective Group 1
Mini Matrix	xEV Power Conversion Design	1	Spring	Interdisciplinary Major in Future Mobility	0011248	Future Eco-Friendly Vehicle Systems	Yoon Hansin	Major Foundation	1	Required
Mini Matrix	xEV Power Conversion Design	2	Fall	Department of Electrical Engineering	0009459	Applications of Power Conversion	Yoon Hansin	Advanced Major	3	Required
Mini Matrix	xEV Power Conversion Design	3	Fall	Department of Electrical Engineering	0010901	FPGA and Active Device Design	Choi Hyeongyu	Advanced Major	3	Required
Mini Matrix	Industrial Artificial Intelligence 2	1	Spring	Department of Industrial and Management Engineering	0009462	Digital Business	Kim Jaegon	Advanced Major	3	Required
Mini Matrix	Industrial Artificial Intelligence 2	2	Spring	Department of Industrial and Management Engineering	0010910	Reinforcement Learning	Jeong Jihyeok	Advanced Major	3	Required
Mini Matrix	Industrial Artificial Intelligence 2	3	Fall	Department of Industrial and Management Engineering	0011900	Machine Learning	Yoo Jaehong	Advanced Major	3	Required
Mini Matrix	Development of Adsorbent Materials for Selective VOC Removal	1	Spring	Department of Energy and Chemical Engineering	XAA1184	General Chemistry (1)	Gregory Isaac Peter	Major Foundation	3	Elective Group 1
Mini Matrix	Development of Adsorbent Materials for Selective VOC Removal	2	Spring	Department of Energy and Chemical Engineering	0001209	Inorganic Chemistry	N/A	Advanced Major	3	Elective Group 1
Mini Matrix	Development of Adsorbent Materials for Selective VOC Removal	3	Spring	Department of Energy and Chemical Engineering	0001230	Introduction to Catalysis	Park Minbeom	Advanced Major	3	Elective Group 1
Mini Matrix	Development of Adsorbent Materials for Selective VOC Removal	4	Spring	Department of Energy and Chemical Engineering	0009062	RISE	Kwon Jaehyeon	Advanced Major	3	Elective Group 1
Mini Matrix	Development of Adsorbent Materials for Selective VOC Removal	5	Fall	Department of Energy and Chemical Engineering	0010917	Introduction to Energy Engineering	Noh Yunho	Advanced Major	3	Elective Group 1
Mini Matrix	Robotics Engineering Design Education	1	Spring	Department of Bio-Robotics Systems Engineering	0008730	Engineering Programming	Kim Uyong	Major Foundation	2	Required
Mini Matrix	Robotics Engineering Design Education	2	Spring	Department of Bio-Robotics Systems Engineering	0001831	Machine Element Design	Woo Changgi	Major Core	3	Required
Mini Matrix	Robotics Engineering Design Education	3	Fall	Department of Bio-Robotics Systems Engineering	0001865	Robotics	Kim Uyong	Advanced Major	3	Required
Mini Matrix	Project-Based Engineering Design Education	1	Spring	Department of Bio-Robotics Systems Engineering	0001831	Machine Element Design	Woo Changgi	Major Core	3	Required
Mini Matrix	Project-Based Engineering Design Education	2	Spring	Department of Bio-Robotics Systems Engineering	0008822	Integrated Design Project 1	Park Sangin	Advanced Major	1	Required

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Mini Matrix	Project-Based Engineering Design Education	3	Spring	Department of Bio-Robotics Systems Engineering	0009447	CAD Geometric Modeling	Park Sangin	Advanced Major	2	Required
Mini Matrix	Embedded Communications Nano Degree Curriculum	1	Spring	Department of Embedded Systems Engineering	0004260	Embedded Communication Systems	Choi Byeongjo	Advanced Major	3	Required
Mini Matrix	Embedded Communications Nano Degree Curriculum	2	Spring	Department of Embedded Systems Engineering	0006837	Internet of Things	Lee Eungyu	Advanced Major	3	Required
Mini Matrix	Embedded Communications Nano Degree Curriculum	3	Spring	Department of Embedded Systems Engineering	0011447	Fundamentals of Communications	Kim Hyeonbeom	Advanced Major	3	Required
Mini Matrix	Embedded Signal Processing Nano Degree Curriculum	1	Spring	Department of Embedded Systems Engineering	0006801	Introduction to Signal Processing	Jeon Gwanggil	Advanced Major	3	Required
Mini Matrix	Embedded Signal Processing Nano Degree Curriculum	2	Spring	Department of Embedded Systems Engineering	0011450	AI Vision Systems	Jeon Gwanggil	Advanced Major	3	Required
Mini Matrix	Embedded Signal Processing Nano Degree Curriculum	3	Fall	Department of Embedded Systems Engineering	IAB6079	Image Processing	Jeon Gwanggil	Advanced Major	3	Required
Mini Matrix	Convergent Media Design	1	Spring	Division of Design	0005987	Basic Product Design	Ahn Hyesin	Advanced Major	2	Required
Mini Matrix	Convergent Media Design	2	Spring	Division of Design	0006643	Visual Media and Design	Yoo Donghyeon	Advanced Major	2	Required
Mini Matrix	Convergent Media Design	3	Fall	Division of Design	0007332	Capstone Design	Kang Inbo	Advanced Major	2	Required
Mini Matrix	Convergent Industrial Design	1	Spring	Division of Design	0008778	Product Design Project	Ahn Hyesin	Advanced Major	2	Required
Mini Matrix	Convergent Industrial Design	2	Fall	Division of Design	0007332	Capstone Design	Kang Inbo	Advanced Major	2	Required
Mini Matrix	Convergent Industrial Design	3	Fall	Division of Design	0010993	User Experience Design	Seo Myeongwon	Advanced Major	2	Required
Mini Matrix	Functional Exercise Specialist (2)	1	Spring	Division of Sport Science	0011039	Musculoskeletal Functional Exercise	Jeon Gyeonggyu	Advanced Major	3	Required
Mini Matrix	Functional Exercise Specialist (2)	2	Spring	Division of Sport Science	0011483	Functional Rehabilitation Exercise 2	Lee Hyeongu	Advanced Major	3	Required
Mini Matrix	Functional Exercise Specialist (2)	3	Fall	Division of Sport Science	HBA6019	Biomechanics	Kim Changi	Major Core	3	Required
Mini Matrix	Functional Exercise Specialist (2)	4	Fall	Division of Sport Science	0011486	Functional Rehabilitation Exercise 1	Kim Changi	Advanced Major	3	Required
Mini Matrix	Sports Culture and Policy Practice	1	Spring	Division of Sport Science	HF86011	Sociology of Sport	Park Chanu	Major Core	3	Required
Mini Matrix	Sports Culture and Policy Practice	2	Fall	Division of Sport Science	0005898	Sports and Media	Lim Saemi	Advanced Major	2	Required
Mini Matrix	Sports Culture and Policy Practice	3	Fall	Division of Sport Science	0011949	Sports Policy	Lim Saemi	Advanced Major	2	Required
Mini Matrix	Field-Linked Matrix Education in Korean Language Education 2	1	Spring	Teacher Education	0001342	Teaching Practice and Administration	Kim Taeguk	Teacher Education	2	Required
Mini Matrix	Field-Linked Matrix Education in Korean Language Education 2	2	Spring	Teacher Education	0007456	Education Capstone Design	Kim Pyeongwon	Teacher Education	2	Required
Mini Matrix	Field-Linked Matrix Education in Korean Language Education 2	3	Spring	Department of Korean Language Education	0011980	Field Seminar in Korean Language Education I	Lee Jungeon	Advanced Major	2	Elective Group 1
Mini Matrix	Field-Linked Matrix Education in Korean Language Education 2	4	Fall	Department of Korean Language Education	0011981	Field Seminar in Korean Language Education II	Kim Namu	Advanced Major	2	Elective Group 1
Mini Matrix	Field-Linked Matrix Education in English Education	1	Spring	Teacher Education	0001342	Teaching Practice and Administration	Kim Taeguk	Teacher Education	2	Required
Mini Matrix	Field-Linked Matrix Education in English Education	2	Fall	Department of English Education	0004959	Field Seminar in English Education	Park Byeongryun	Advanced Major	3	Required
Mini Matrix	Field-Linked Matrix Education in English Education	3	Fall	Teacher Education	0007456	Education Capstone Design	Kim Pyeongwon	Teacher Education	2	Required
Mini Matrix	Field-Linked Matrix Education in Japanese Language Education	1	Spring	Department of Japanese Language Education	0004859	Field Seminar in Japanese Language Education	Han Sehwan	Advanced Major	3	Required
Mini Matrix	Field-Linked Matrix Education in Japanese Language Education	2	Spring	Teacher Education	0007456	Education Capstone Design	Kim Pyeongwon	Teacher Education	2	Required
Mini Matrix	Field-Linked Matrix Education in Japanese Language Education	3	Fall	Teacher Education	0001342	Teaching Practice and Administration	Kim Taeguk	Teacher Education	2	Required
Mini Matrix	Field-Linked Matrix Education in Mathematics Education	1	Spring	Teacher Education	0001342	Teaching Practice and Administration	Kim Taeguk	Teacher Education	2	Required
Mini Matrix	Field-Linked Matrix Education in Mathematics Education	2	Fall	Department of Mathematics Education	0004847	Field Seminar in Mathematics Education	Kim Haeyun	Advanced Major	3	Required
Mini Matrix	Field-Linked Matrix Education in Mathematics Education	3	Fall	Teacher Education	0007456	Education Capstone Design	Kim Pyeongwon	Teacher Education	2	Required
Mini Matrix	Field-Linked Matrix Education in Physical Education 3	1	Spring	Teacher Education	0001342	Teaching Practice and Administration	Kim Taeguk	Teacher Education	2	Required
Mini Matrix	Field-Linked Matrix Education in Physical Education 3	2	Fall	Department of Physical Education	0004971	Field Seminar in Physical Education	Yoo Changwan	Advanced Major	3	Required
Mini Matrix	Field-Linked Matrix Education in Physical Education 3	3	Spring	Department of Physical Education	0006710	Research Design in Physical Education	Yang Jonghyeon	Advanced Major	2	Elective Group 1
Mini Matrix	Field-Linked Matrix Education in Physical Education 3	4	Spring	Teacher Education	0007456	Education Capstone Design	Kim Pyeongwon	Teacher Education	2	Elective Group 1
Mini Matrix	Field-Linked Matrix Education in Physical Education 3	5	Fall	Department of Physical Education	0009511	Presentations and Discussions in Physical Education Classes	Yoo Changwan	Advanced Major	1	Elective Group 1
Mini Matrix	Field-Linked Matrix Education in Physical Education 3	6	Fall	Department of Physical Education	0011119	Teaching Materials and Methods in Physical Education	Park Jeongjun	Advanced Major	3	Elective Group 1
Mini Matrix	Field-Linked Matrix Education in Physical Education 3	7	Fall	Department of Physical Education	HFC6062	Exercise Prescription	Lee Seungyong	Advanced Major	3	Elective Group 1
Mini Matrix	Field-Linked Matrix Education in Early Childhood Education	1	Spring	Department of Early Childhood Education	0007849	Field-Based Seminar in Early Childhood Education	Ahn Donggeun	Advanced Major	3	Required
Mini Matrix	Field-Linked Matrix Education in Early Childhood Education	2	Spring	Teacher Education	0001342	Teaching Practice and Administration	Kim Taeguk	Teacher Education	2	Required
Mini Matrix	Field-Linked Matrix Education in Early Childhood Education	3	Fall	Department of Early Childhood Education	0009514	Creativity and Character Education for Young Children	Ahn Donggeun	Advanced Major	3	Elective Group 1

Category	Nano Degree Program	No.	Semester	Offering Department	Course Code	Course Title	Instructor	Course Classification	Credits	Completion Requirement
Mini Matrix	Field-Linked Matrix Education in Early Childhood Education	4	Fall	Teacher Education	0007456	Education Capstone Design	Kim Pyeongwon	Teacher Education	2	Elective Group 1
Mini Matrix	Field-Linked Convergence Education in Early Childhood Education	1	Spring	Department of Early Childhood Education	0001304	Music Education for Young Children	Lee Areum	Advanced Major	3	Required
Mini Matrix	Field-Linked Convergence Education in Early Childhood Education	2	Spring	Department of Early Childhood Education	0001308	Mathematics Education for Young Children	Kim Gyeonga	Advanced Major	3	Required
Mini Matrix	Field-Linked Convergence Education in Early Childhood Education	3	Fall	Department of Early Childhood Education	0001329	Child Observation and Behavior Research	Kim Sangrim	Advanced Major	3	Required
Mini Matrix	Field-Linked Matrix Education in History Education	1	Spring	Teacher Education	0001342	Teaching Practice and Administration	Kim Taeguk	Teacher Education	2	Required
Mini Matrix	Field-Linked Matrix Education in History Education	2	Spring	Teacher Education	0007456	Education Capstone Design	Kim Pyeongwon	Teacher Education	2	Required
Mini Matrix	Field-Linked Matrix Education in History Education	3	Fall	Department of History Education	0004833	Field Seminar in History Education	Kim Seongja	Major Core	3	Required
Mini Matrix	Field-Linked Matrix Education in Ethics Education	1	Spring	Department of Ethics Education	0004966	Field Seminar in Ethics Education	N/A	Advanced Major	3	Required
Mini Matrix	Field-Linked Matrix Education in Ethics Education	2	Spring	Teacher Education	0001342	Teaching Practice and Administration	Kim Taeguk	Teacher Education	2	Required
Mini Matrix	Field-Linked Matrix Education in Ethics Education	3	Fall	Teacher Education	0007456	Education Capstone Design	Kim Pyeongwon	Teacher Education	2	Required
Mini Matrix	Biopharmaceuticals and Healthcare	1	Spring	Major in Biotechnology	0004292	Cell Biology	Lee Misu	Advanced Major	3	Required
Mini Matrix	Biopharmaceuticals and Healthcare	2	Spring	Major in Biotechnology	0005884	Biomedical Engineering	Park Gyeongmin	Advanced Major	3	Required
Mini Matrix	Biopharmaceuticals and Healthcare	3	Fall	Major in Biotechnology	0001650	Protein Engineering	Lee Wonjong	Advanced Major	3	Required