

2013 학년도 대학원 신소재공학부 금속신소재공학전공 교육과정

◆ 교육과정 편성표

과목번호	과목명	영문명	학점
MAME711	금속제련공학	Extractive Metallurgy	3-3-0
MAME712	비평형재료	Non-equilibrium Materials	3-3-0
MAME713	전자현미경론	Electron Diffraction and Microscopy	3-3-0
MAME715	광전자재료및소자	Optoelectronic Materials and Devices	3-3-0
MAME799	석사학위논문연구(금속신소재공학)	Thesis : Materials Science and Metallurgy Engineering	3-3-0
MAME999	박사학위논문연구(금속신소재공학)	Dissertation : Materials Science and Metallurgy Engineering	3-3-0
META712	합금열역학	Thermodynamics of Alloys	3-3-0
META726	부식공학	Corrosion Science and Engineering	3-3-0
META728	재료와에너지	Materials for Energy System	3-3-0
META731	결정해석학	Crystallography of Materials	3-3-0
META732	금속강화론	Strengthening of Metals	3-3-0
META733	금속파괴론	Fracture Mechanics of Metals	3-3-0
META734	전위론	Dislocations in Metals	3-3-0
META735	복합재료학	Composite Materials	3-3-0
META736	재료공정제어계측	Electronic Measurement and Control for Materials Processing	3-3-0
META737	실험설계법	Design of Experiments	3-3-0
META738	자성재료	Magnetic Materials	3-3-0
META739	나노분말가공학	Consolidation Processing for Nanosize Powders	3-3-0
META742	재료과학특론	Special Topics in Materials Science and Engineering	3-3-0
META743	응용전기화학	Applied Electrochemistry in Materials Engineering	3-3-0
META744	금속표면공학	Surface Science and Engineering of Metals	3-3-0
META746	재료물리특론	Advanced Physics of Engineering Materials	3-3-0
META747	재료접합이론	Theory of Materials Joining	3-3-0
META748	접합설계	Materials Joining Design	3-3-0
META752	소성가공이론	Theory of Plastic Deformation	3-3-0
META754	고온재료공학	High-Temperature Materials	3-3-0
META755	비파괴검사	Nondestructive Testing	3-3-0
META756	열처리이론	Theory of Heat Treatment	3-3-0
META760	전자재료및공정특론	Advanced Electronic Materials Science and Processing	3-3-0
META762	재료설계학	Materials Design	3-3-0
META765	전자패키징재료	Electronic Packaging Materials	3-3-0
META766	디스플레이재료학	Display Materials	3-3-0
META767	지능재료	Intelligent Materials	3-3-0
META768	반도체공정및소자	Semiconductor Processing and Decices	3-3-0
META769	센서재료및공정	Sensor Materials and Processing	3-3-0
META771	응고이론	Principles of Solidification	3-3-0
META772	응고모사법	Solidification Modeling and Simulation	3-3-0
META773	결정성장법	Theory and Practices of Crystal Growth	3-3-0
META774	특수주조법	Advanced Foundry Engineering	3-3-0
META776	재료리사이클링공학	Recycling Engineering	3-3-0
META777	반응속도론	Reaction Kinetics	3-3-0
META779	재료정제공학	Materials Purification	3-3-0
META783	재료박막공정	Thin Film Processing of Materials	3-3-0
META787	재료물성공학	Physical Properties of Engineering Materials	3-3-0
META788	상변태속도론	Transformation Kinetics	3-3-0

META789	첨단소재공학	New Engineering Materials	3-3-0
META883	반도체소자물리	Physics of Semiconductor Devices	3-3-0
META884	재료분석법특론	Special Topics in Materials Characterization	3-3-0

## 2013 학년도 대학원 신소재공학부 전자재료공학전공 교육과정

### ◆ 교육과정 편성표

과목번호	과목명	영문명	학점
AMEN735	에너지공학특론1	Advanced Energy Engineering1	3-3-0
AMEN831	에너지공학특론2	Advanced Energy Engineering2	3-3-0
AMEN832	에너지공학특론3	Advanced to Energy Engineering 3	3-3-0
CIME712	상안정특론1	Phase Stability in Materials1	3-3-0
CIME713	반도체재료특론1	Advanced Semiconducting Materials1	3-3-0
CIME715	무기재료의기계적성질1	Mechanical Properties of Inorganic Materials1	3-3-0
CIME717	고체화학특론1	Advanced Solid State Chemistry1	3-3-0
CIME718	고체의구조및결함1	Structure and Defect Solid1	3-3-0
CIME721	고체물리학특론1	Advanced Solid State Physics1	3-3-0
CIME722	무기재료특강1	Topics on Inorganic Materials1	3-3-0
CIME723	무기재료특강2	Topics on Inorganic Materials2	3-3-0
CIME724	재료의표면 및 계면론1	Surface and Interface of Materials1	3-3-0
CIME725	재료공학특론1	Advanced Materials Science1	3-3-0
CIME726	재료열역학특론1	Advanced Thermodynamics of Materials1	3-3-0
CIME727	전자요업특론1	Advanced Electronic Ceramics1	3-3-0
CIME728	유전재료특론1	Advanced Dielectric Materials1	3-3-0
CIME729	자성재료특론1	Advanced Magnetic Materials1	3-3-0
CIME732	소결특론1	Advanced Sintering Theory1	3-3-0
CIME733	무기재료조직론1	Ceramic Microstructure1	3-3-0
CIME734	상변태특론1	Phase Transformation in Solids1	3-3-0
CIME736	재료공학특론2	Advanced Materials Science2	3-3-0
CIME737	재료열역학특론2	Advanced Thermodynamics of Materials2	3-3-0
CIME739	상안정특론2	Phase Stability in Materials2	3-3-0
CIME740	전자요업특론2	Advanced Electronic Ceramics2	3-3-0
CIME741	유전재료특론2	Advanced Dielectric Materials2	3-3-0
CIME742	자성재료특론2	Advanced Magnetic Materials2	3-3-0
CIME743	반도체재료특론2	Advanced Semiconducting Materials2	3-3-0
CIME746	소결특론2	Advanced Sintering Theory2	3-3-0
CIME747	무기재료조직론2	Ceramic Microstructure 2	3-3-0
CIME749	무기재료의기계적성질2	Mechanical Properties of Inorganic Materials2	3-3-0
CIME751	상변태특론2	Phase Transformation in Solids2	3-3-0
CIME753	고체의구조및결함2	Structure and Defect Solid2	3-3-0
CIME758	고체물리학특론2	Advanced Solid State Physics2	3-3-0
CIME759	무기재료특강3	Topics on Inorganic Materials3	3-3-0
CIME760	무기재료특강4	Topics on Inorganic Materials4	3-3-0
CIME771	나노세라믹스특론1	Advanced Nano-Ceramics1	3-3-0
CIME772	나노세라믹스특론2	Advanced Nano-Ceramics2	3-3-0
CIME773	광학세라믹스특론1	Advanced Optical Ceramics1	3-3-0
CIME774	광학세라믹스특론2	Advanced Optical Ceramics2	3-3-0
CIME775	박막공학특론1	Advanced Thin Film Engineering1	3-3-0
CIME776	박막공학특론2	Advanced Thin Film Engineering2	3-3-0

CIME777	태양전지특론	Advanced Solar Cell	3-3-0
CIME778	연료전지특론	Advanced Fuel Cell	3-3-0
CIME779	이차전지특론	Advanced Secondary Battery	3-3-0
CIME799	석사학위 논문연구 (무기재료공학)	Thesis : Inorganic Materials Engineering	3-3-0
CIME999	박사학위 논문연구 (무기재료공학)	Dissertation : Inorganic Materials Engineering	3-3-0