

## Course Number List for e3 students enrolled in AY2019 and before(2nd semester, 2020)

Division etc.	Course Number	Course Title	Credit
Common Subjects for Graduate School of Engineering	092011	Internship I (インターンシップ第一E)	1
Common Subjects for Graduate School of Engineering	092012	Internship II (インターンシップ第二E)	2
Common Subjects for Graduate School of Engineering	092013	Practical English for Science and Engineering(実践科学技術英語E)	2
Applied Physics	092040	Advanced Exercise in Applied Physics (応用物理学特別演習E)	10
Applied Physics	092042	Diffraction Physics (回折物理学E)	2
Applied Physics	092045	Laser Spectroscopy (レーザー分光E)	2
Applied Physics	092046	Optical Properties of Materials (光物性E)	2
Applied Physics	092050	Physics of Condensed Matter (凝縮系物理工学E)	2
Applied Physics	092051	Optical Science (光科学E)	2
Materials Science and Engineering	092123	Advanced Exercise in Materials Science and Engineering (材料科学特別演習E)	10
Materials Science and Engineering	092124	Advanced Thin Surface Film Engineering (表面薄膜工学E)	1
Materials Science and Engineering	092125	Novel Processings (ノーベルプロセッシング工学E)	2
Materials Science and Engineering	092126	Advanced Eco-Materials (環境材料学E)	2
Materials Science and Engineering	092129	Micro-and Nano-Processing (マイクロ・ナノプロセスE)	1
Materials Science and Engineering	092132	High-Temperature Corrosion and Protection of Materials (高温腐食防食学E)	1
Materials Science and Engineering	092134	Transmission electron microscopy for crystalline materials (結晶電子顕微鏡解析学E)	1
Materials Science and Engineering	092135	Crystal Orientation Controlling for Materials Design (結晶制御工学E)	1
Materials Science and Engineering	092137	Advanced Energy Materials(機能材料工学特論E)	2
Materials Science and Engineering	092138	Instrumental Analysis for Materials(材料機器分析特論E)	1
Materials Science and Engineering	092141	Exergy Engineering (エクセルギー工学E)	1
Common Subjects for MSPE, HMSD, EES, &QSE	092167	Solid Mechanics and Materials (固体力学E)	2
Common Subjects for MSPE, HMSD, EES, &QSE	092168	Strength and Fracture of Materials (材料強度学E)	2
Common Subjects for MSPE, HMSD, EES, &QSE	092174	Image Processing (画像工学E)	2
Common Subjects for MSPE, HMSD, EES, &QSE	092176	Advanced Mathematics for Applications (応用数学E)	2
Mechanical and Space Engineering	092213	Space Utilization Engineering (宇宙環境利用工学E)	2
Mechanical and Space Engineering	092214	Computational Fluid Mechanics (計算流体工学E)	2
Mechanical and Space Engineering	092215	Space Propulsion Engineering (宇宙輸送工学E)	2
Mechanical and Space Engineering	092217	Materials for Space Structure (宇宙材料学E)	1
Mechanical and Space Engineering	092221	Advanced Exercise in Mechanical and Space Engineering (機械宇宙工学特別演習E)	10
Human Mechanical Systems and Design	092292	Smart Systems and Structures (スマート構造制御E)	2
Human Mechanical Systems and Design	092293	Control Problems on Robotics (ロボット制御工学E)	2
Human Mechanical Systems and Design	092294	Solid and Motion Biomechanics (固体・運動系バイオメカニクスE)	2
Human Mechanical Systems and Design	092295	BioMEMS Engineering (バイオMEMS工学E)	1
Human Mechanical Systems and Design	092301	Numerical Heat Transfer (数値熱輸送工学E)	1
Human Mechanical Systems and Design	092302	Thermal Bioengineering (生体熱工学E)	2
Human Mechanical Systems and Design	092303	Biomechanics of Circulation (循環系バイオメカニクスE)	1
Human Mechanical Systems and Design	092304	Biomedical Engineering I (バイオメディカルエンジニアリング一E)	1
Human Mechanical Systems and Design	092305	Biomedical Engineering II (バイオメディカルエンジニアリング二E)	1
Human Mechanical Systems and Design	092306	Advanced Exercise in Human Mechanical Systems and Design (人間機械システムデザイン特別演習E)	10
Energy and Environmental Systems	092352	Nuclear Reactor Engineering (原子炉工学E)	1
Energy and Environmental Systems	092356	Nuclear Reactor Theory (原子炉物理E)	1
Energy and Environmental Systems	092357	Materials for Nuclear and Various Energy (原子力・エネルギー材料E)	1
Energy and Environmental Systems	092358	Advanced Nuclear Waste Management (放射性廃棄物処分工学E)	1
Energy and Environmental Systems	092360	Boiling Heat Transfer and Two Phase Flow (沸騰・二相流E)	1
Energy and Environmental Systems	092361	Engine System Engineering (エンジンシステム工学E)	1
Energy and Environmental Systems	092362	Combustion in Internal Combustion Engine (エンジン燃焼工学E)	1
Energy and Environmental Systems	092364	Advanced Exercise in Energy and Environmental Systems (エネルギー環境システム特別演習E)	10
Quantum Science and Engineering	092422	Advanced Quantum Beam Materials (量子ビーム材料物性E)	2
Quantum Science and Engineering	092423	Advanced Exercise in Quantum Science and Engineering (量子理工学特別演習E)	10
Quantum Science and Engineering	092425	Applied Mathematical Physics for Plasma Engineering(応用プラズマ数理工学E)	1
Quantum Science and Engineering	092431	Surface Nanomaterials' Sciences(表面ナノ材料科学E)	1

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Field Engineering for the Environment	092476	Ocean Wave Mechanics (沿岸波動力学E)	2
Field Engineering for the Environment	092477	Sediment Transport (土砂輸送特論E)	2
Field Engineering for the Environment	092478	Environmental Fluid Mechanics (環境流体力学E)	2
Field Engineering for the Environment	092479	Hydrology and Hydraulics (水文・水理学E)	2
Field Engineering for the Environment	092482	Advanced Exercise in Field Engineering for the Environment (環境フィールド工学特別演習E)	10
Field Engineering for the Environment	092483	Computational Hydraulics (数値計算水理学E)	2
Field Engineering for the Environment	092484	Disaster Mitigation Geotechnology (地盤防災学E)	2
Field Engineering for the Environment	092485	Geodynamics (地盤動力学E)	2
Field Engineering for the Environment	092486	Coastal Ecosystem and Environmental Engineering (沿岸生態環境工学E)	2
Field Engineering for the Environment	092488	Environmental Concrete Engineering (環境コンクリートE)	2
Engineering and Policy for Sustainable Environment	092544	Probability and Statistics for Planning and Experimental Design (実験計画のための確率・統計E)	2
Engineering and Policy for Sustainable Environment	092546	Lifetime Engineering for Civil Infrastructure (社会基盤施設維持管理工学E)	2
Engineering and Policy for Sustainable Environment	092547	Advanced Exercise in Engineering and Policy for Sustainable Environment (北方圏環境政策工学特別演習E)	10
Engineering and Policy for Sustainable Environment	092553	Construction Management (コンストラクション・マネジメントE)	2
Engineering and Policy for Sustainable Environment	092555	Nonlinear Mechanics and Analysis of Hybrid Structures (複合構造の非線形解析E)	2
Common Subjects for ASD & HES	092604	Environmental Energy Engineering (環境エネルギー工学E)	2
Common Subjects for ASD & HES	092606	Urban Planning (都市環境デザイン学E)	2
Common Subjects for ASD & HES	092608	Urban Disaster Mitigation (都市防災E)	2
Common Subjects for ASD & HES	092611	Architectural and Urban Space Studies (建築都市空間学E)	2
Common Subjects for ASD & HES	092612	Advanced Exercise in Human Environmental Systems, Architectural and Structural Design	10
Common Subjects for ASD & HES	092618	Building Structural Design(構造設計学E)	2
Environmental Engineering	092793	Water Quality Risk and Control (水・物質循環工学E)	2
Environmental Engineering	092798	Solid Waste Management and Disposal (廃棄物処理工学E)	2
Environmental Engineering	092799	Advanced Exercise in Environmental Engineering (環境創生工学特別演習E)	10
Environmental Engineering	092800	Atmospheric Environment Engineering (大気環境保全工学E)	2
Environmental Engineering	092802	Wastewater Reclamation and Reuse (排水処理・再生工学E)	2
Sustainable Resources Engineering	092861	Environmental Geology I (環境地質学一E)	2
Sustainable Resources Engineering	092862	Rock Engineering (岩盤工学E)	2
Sustainable Resources Engineering	092865	Simulation of Fluid Flow (流れの数値計算E)	2
Sustainable Resources Engineering	092866	Geotechnical Measurement Engineering (地盤計測工学E)	2
Sustainable Resources Engineering	092867	Advanced Exercise in Sustainable Resources Engineering (環境循環システム特別演習E)	10
Sustainable Resources Engineering	092869	Sustainable engineering materials(サステイナブル工業材料E)	2
Cooperative Program for Resources Engineering	092948	Resources Management I (資源マネジメント I E)	2
Cooperative Program for Resources Engineering	092949	Resources Management II (資源マネジメント II E)	1
Cooperative Program for Resources Engineering	092950	Human Resources exchange seminar (国際人材交流セミナーE)	2
Cooperative Program for Resources Engineering	092951	International Field exercise (国際フィールド調査E)	2
Cooperative Program for Resources Engineering	092953	Special Lecture II on Cooperative Program for Resources Engineering (共同資源工学特別講義 II E)	1
Cooperative Program for Resources Engineering	092954	Special Lecture III on Cooperative Program for Resources Engineering(共同資源工学特別講義 III E)	1
Cooperative Program for Resources Engineering	092959	Economic Geology(鉱床学E)	2
Cooperative Program for Resources Engineering	092960	Offshore Exploration Engineering(海洋探査工学E)	2
Cooperative Program for Resources Engineering	092961	Introduction to Geothermics(地球熱学概論E)	2
Cooperative Program for Resources Engineering	092962	Resource Development Engineering(資源開発工学E)	2
Cooperative Program for Resources Engineering	092963	Mining System Engineering(資源採掘システム工学E)	2
Cooperative Program for Resources Engineering	092964	Earth Environmental Remediation Engineering(地球環境修復工学E)	2
Cooperative Program for Resources Engineering	092965	Petroleum Reservoir Engineering(石油貯留層工学E)	2
Cooperative Program for Resources Engineering	092966	Special Lecture II on Resources System(資源システム特別講義 II E)	2
Cooperative Program for Resources Engineering	092967	Advanced Information Processing for Resources Engineering (資源情報処理E)	2
Cooperative Program for Resources Engineering	092969	Advanced Continuum and Discontinuum Mechanics(連続体・不連続体力学E)	2
Cooperative Program for Resources Engineering	092970	Resource Geology(資源地質学E)	2
Cooperative Program for Resources Engineering	092971	Engineering Geophysics(物理探査工学E)	2
Cooperative Program for Resources Engineering	092972	Geothermal System(地熱システム学E)	2

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Cooperative Program for Resources Engineering	092975	Resources Separation and Extraction Engineering(資源分離精製工学E)	2
Cooperative Program for Resources Engineering	092977	Advanced Exercise in Cooperative Program for Resources Engineering(共同資源工学特別演習E)	2
Cooperative Program for Resources Engineering	092982	Geotechnical Measurement Engineering(地圏計測工学E)	2
Cooperative Program for Resources Engineering	092983	Rock Engineering(岩盤工学E)	2