

1000 Level	
EMSC1006	EMSC1008
EMSC1006_L01 Overview	EMSC1008_L01 Overview
EMSC1006_L2	L02 Earth Layers
EMSC1006_L3	L03 Plate Tectonics
EMSC1006_L4	L04 Plate Boundaries
EMSC1006_L5	L05 Seismic Waves
EMSC1006_L6	L06 Imaging the Earth
EMSC1006_L7	L07 Earth's Magnetic Field
EMSC1006_L8	L08 Gravity
EMSC1006_L9	L09 Heat
EMSC1006_L10	L10 Relative Plate Motions
EMSC1006_L11	L11 Absolute Plate Motion
EMSC1006_L12	L12 Plate Dynamics
EMSC1006_L13	L13 Minerals
EMSC1006_L14	L14 Minerals
EMSC1006_L15	L15 Crystallisation & Intrusions
EMSC1006_L16	L16 Igneous Rocks
EMSC1006_L17	L17 Sedimentary Rocks
EMSC1006_L18	L18 Sedimentary Rocks
EMSC1006_L19	L19 Structural Geology
EMSC1006_L20	L20 Metamorphic Rocks
EMSC1006_L21	L21 Metamorphism
EMSC1006_L22	L22 Volcanoes
EMSC1006_L23	L23 Mantle Plumes
EMSC1006_L24	L24 Subduction

2000 Level			
EMSC2021	EMSC2022	EMSC2023	EMSC2024
EMSC2021_L01 Overview	EMSC2022_L01 Overview	L01 Sedimentary Rocks	L01 Geochemistry Fundamentals
L02 Blackbody Radiation	L02 Review of Plate Tectonic Boundaries	L02 Depositional Envs - Rivers	L02 Earth Geochemistry
L03 Radiative Balance of a Planet	L03 Euler Poles	L03 Depositional Envs - Turbidites	L03 Earth's Atmosphere 1
L04 Ice-albedo Feedback	L04 Predicting Plate Velocities	L04 Depositional Envs - Deltas & Marine	L03 Earth's Atmosphere 2
L05 The Greenhouse Effect	L05 Estimating Euler Poles	L05 Carbonate Sedimentology	L05 Weathering Systems
L06 The Ozone Layer & Stratosphere	L06 Estimating Euler poles - Seafloor Spreading	L06 Stratigraphy & Earth History	L06 Soil & Biogeochemical Cycling
L07 Ideal Gases	L07 Palaeogeography	L07 Intro to Structural Geology	L07 Redox Reactions
L08 Atmospheric Thermodynamics	L08 Review of Plate Tectonic Module	L08 Folding & Faulting	L08 Transition Metals, Activity Diagrams
L09 Lapse Rates & Stability	L09 Faults and Stress in the Earth	L09 Brittle Deformation - Faults, Joints & Veins	L09 Mineral Chemical Composition
L10 Phase Changes	L10 Stress & Elastic rebound theory	L10 Geological Maps & Structural Contours	L10 Major & Trace Elements, Fractionation
L11 Climate Sensitivity	L11 Seismology Fundamentals	L11 Fold Geometry & Styles	L11 Trace Elements in Rocks & Materials
L12 Climate Sensitivity	L12 Seismic wave propagation	L12 Foliation & Fold Vergence	L12 Partitioning, Fractional Melting & Crystallisation, & Crust Formation
L13 Intro to the Surface Energy Balance	L13 Snells Law	L13 Petrology - Olivine & Garnet	L13 Radiogenic Isotopes - time & tracers
L14 Surface Energy Balance & the Water Cycle	L14 Earthquake Location	L14 Petrology - Pyroxene & Peridotite Classification	L14 Dating using Radiogenic Isotopes
L15 Geoengineering	L15 Earthquake Size	L15 Olivine Binary Phase Diagram	L15 Isotopes - tracing Earth Processes & Reservoirs
L16 Climate Observations & Reanalysis	L16 Earthquake Statistics	L16 Mafic Rock Classification	L16 New Heavy Stable Isotopes & Applications
L17 Latitudinal Variation of Solar Radiation	L17 GPS	L17 Mafic Volcanic & Plutonic Rocks	L17 Deep Earth & Deep Time
L18 Thermal Inertia	L18 SAR/InSAR	L18 Feldspar Minerals	L18 Geochemistry & Key Earth Events
L19 Meridional Heat Transport	L19 Tsunami	L19 Mantle Melting & Granitoid Rocks	L19 Ocean Geochemistry
L20 Numerical Implementation of Equations	L20 Volcanoes	L20 Silicate Mineral Structures	L20 Ocean Geochemistry
L21 Climate Models	L21 Mantle Convection & Plate Motion	L21 Metaphorphic Rock Classification - Blueschist Facies	L21 Reservoirs & Fluxes
L22 Climate Models	L22 Mantle Convection & Plate Motion II	L22 Greenschist, Amphibolite & Eclogite Facies	L22 Black Smokers, Biomineralisation
L23 Intro to Ocean Sea Level	L23 Poster	L23 Garnet Cpx Thermometry Lecture	L23 Geochemical Feedback - Systems Diagrams
L24 Intro to Melting Ice Sheets	EMSC2022_L24 Poster	EMSC2023_L24 Exam	L24 Stable Isotopes of C, Planetary Feedback

3000 Level										
EMSC3002	EMSC3007	EMSC3020	EMSC3022	EMSC3023	EMSC3024	EMSC3025	EMSC3032	EMSC3033	EMSC3034	EMSC3039
EMSC3002_L01 Overview	EMSC3007_L01 Overview	L01 Geologic Timescale, Geobiology & Palaeontology	EMSC3022_L01 Overview	EMSC3023_L01 Overview	L01 Mantle mineralogy	EMSC3025_L01 Overview	L01 Intro to Least Squares	EMSC3033_L01 Overview	EMSC3034_L01 Overview	EMSC3039_L01 Overview
L02 Global Deformation Patterns	EMSC3002_L02	L02 Origin & History of Earth	L02 Solar System Exploration	L02 Box Modelling	L02 Melting the mantle	L02 Intro to Remote Sensing	L02 Climate Myths	L02 Seismic Review	L02 Viscous flow	EMSC3039_L2
L03 Plate Boundaries	L4 Magmatic Ore Deposits	L03 Early Evolution & Biology	L03 Solar System Raw Materials	L03 Productivity	L03 Primary, primitive and evolved melts	L03 Atmospheric Water	L03 What Affects 'Sea Level'? Milankovitch Cycles	L03 Seismic Data	L03 Viscous Fluid Flow & Mantle Viscosity	L03 The Fluid Dynamics of Climate
L04 Stress, Strain and Strength	L4 Sulfur Solubility	L04 Life During 1.8-0.8 Billion Years Ago	L04 Elements & Isotopes	L04 Export	L04 Fractional crystallisation	L04 Satellite Gravity	L04 Refining Satellite Era Estimates of Global Mean Sea Level Rise	L04 All About Earthquakes	L04 The Geoid, Gravity & Mantle Viscosity	L04 The Fluid Dynamics of Climate
L05 Structural Geology & Crustal deformation	L5 Sulfur Solubility	L05 Snowball Earth	L05 Accretion & Formation of Planets & Their Moons	L05 Oxygen	L05 Melting peridotite with volatiles	L05 Surface Water	L05 Spherical Harmonics	L05 Velocity Models & Arrival Prediction	L05 Heat & Convection	L05 The Rotating Fluid Dynamics of Climate
L06 Contractual regimes	L5 Sulfur Solubility Cont. & R Factors	L06 Food Chain Revolutions & Rise of Algae	L06 Meteorites, Minerals & Compositions	L06 Nitrogen	L06 Melting peridotite with volatiles	L06 Soil Moisture	L06 Reference Frames & Orbits	L06 Sensor Orientation	L06 Heat & Convection	L06 The Rotating Fluid Dynamics of Climate
L07 Extensional regimes	L7 Sulfur Solubility Cont. & R Factors	L07 When life got Big!	L07 Heat Flow & the Evolution of Planetary Crusts	L07 Silicon	L07 Mantle dynamics	L07 Rain	L07 GPS	L07 Sensors - Advanced Techniques	L07 Plate Mode of Mantle Convection	L07 Ekman and Vorticity
L08 Strike-slip, transpression & transtension	EMSC3007_L8	L08 The Cambrian Explosion & Principles of Animal Evolution	L08 Geologic Maps & Analyzing Rocks - Thermal Infrared & X-rays	L08 Carbon Cycle 1	L08 Carbonates	L08 Water Act 2007	L08 GPS	L08 Exam	L08 Plate Mode of Mantle Convection	L08 Ekman and Vorticity
L09 Stress	L9 Magmatic Fluids & Volatiles	L09 The Palaeozoic Era	L09 Geophysical Probes of Planetary Interiors & Tectonics	L09 Carbon Cycle 2	L09 Kimberlites	L09Water Act 2008	L09 GPS Climate	L09 Quantum Sensors	L09 Plume Mode of Mantle Convection	L09 Atmospheric Weather
L10 Strain and Strain rate	L10 Magmatic Fluids & Volatiles	L10 The Age of Fishes & Arrival of Life on Land	L10 Planetary Structure & Tectonics	L10 Carbon Cycle 3	L10 Arcs, Rift Valleys, tectonic setting	L10 Water Act 2009	L10 Grace	L10 Borehole Wireline	L10 Plume Mode of Mantle Convection	L10 Atmospheric Weather
L11 Rheology	L11 Porphyry - Epithermal - Geothermal Deposits	L11 Peer to Peer Teaching Part I - range of topics	L11 Planetary Surfaces - Analyzing Rocks, Sediments & Ice	L11 Carbon Cycle 4	L11 Mantle wedge melting, variation, magmatic differentiation	L11 Water Act 2010	L11 Grace	L11 Gravity Refresh/Introduction	L11 Synthesis & Stocktaking	L11 Ocean Weather
L12 Fundamentals of brittle deformation	L12 Porphyry - Geothermal Deposits	L12 Peer to Peer Teaching Part I - range of topics	L12 Volcanism & Phase Diagrams, Lunar & Martian Meteorites	L12 Radiocarbon 1	L12 Tholeiitic & calc-alkaline trends, arc, island rock types, trace elements	L12 Water Act 2011	L12 The Fingerprint Ocean from Space Gravity	L12 Gravity Measurement	L12 Revision	L12 Ocean weather
L13 Joints and veins	L13 Pegmatites	L13 The Permian-Triassic Mass Extinction	L13 Impact Cratering, Geochronology & Delivery of Water	L13 Radiocarbon 2	L13 Subduction beneath a continental plate	L14 Hydrology and land surface models	L13 Whats Happening to Antarctica	L13 Gravity Surveying & Data	L13 Oceanic Basalts	L13 Air-Sea Fluxes
L14 Fault, fault zone & earthquakes	L14 Pegmatites	L14 The Early Mesozoic Era after the Extinction & Dinosaurs!!!	L14 Regolith & Thermal Inertia	L14 Metals 1	L14 Plutonic rock arcs, continental rifting, alkaline rocks	L13 Hydrology and land surface models	L14 Whats Happening in Earth	L14 Gravity Measurements	L14 Oceanic Basalts	L14 Surface Dynamics
L15 Two important earthquakes	L15 Rare Earth Element Deposits	L15 The Cretaceous-Paleogene Mass Extinction	L15 Planetary Atmospheres	L15 Metals 2	L15 Continental rifting & flood basalts	L15 GRACE, Spherical Harmonics	L15 GRACE Simulations & Regularisation	L15 Interpreting Gravity Data	L15 Mid-ocean ridge basalts	L15 Convection
L16 Fold Geometry	L16 Rare Earth Element Deposits	L16 The Cenozoic Era & the Emergence of Humans	L16 Designing a Habitable Planet or Exo-planet	L16 U Series 1	L16 Granites	L16 GRACE, Spherical Harmonics	L16 Mass Balance of Antarctica	L16 Processing Gravity Data	L16 Intra-plate basalts	L16 Convection
L17 Axial Surface Fossils	L17 Iron oxide copper-gold deposits	L17 Peer to peer teaching Part II	L17 The Record of Life	L17 U Series 2	L17 Introduction to Metamorphism	L17 Oral Presentations	L17 Glacio-isostatic Adjustment & its Applications	L17 Introduction to Surveying	L17 Australian Volcanism	L17 Introduction to Climate Models
L18 Lineations and Bouinage	L18 Iron oxide copper-gold deposits	L18 Peer to peer teaching Part II	L18 Life, the Atmosphere & Organic Matter	L18 Sediments	L18 Facies to Geodynamic	L18 Oral Presentations	L18 Assessing the Accuracy of GIA Models - Ice Sheets & Oceans	L18 Phyxoph Magnetometer	L18 Australian Volcanism	L18 Introduction to Climate Models
L19 Ductile Deformation & Shear zones	L19 VMS/SedEx	L19 Mammals, Marsupials & the Extinction of Megafauna	L19 Searching for Life on Mars	L19 Sediments	L19 Cordierite-Staurolite	L20 Data Assimilation	L19 Case studies - GRACE results	L19 Magnetic Survey Techniques	L19 Oral Presentation	L19 Overturning circulation of the atmosphere and ocean
EMSC3002_L20	L20 VMS/SedEx	L20 Understanding Mammal Skeletons & Skulls	L20 Research Presentation Review	L20 Poster Development	L20 Thermodynamics, reactions & Chemographic Projections	L20 Kalman Fitting	L20 Case studies - GRACE results	L20 Field Anomalies	L20 Oral Presentation	L20 Overturning circulation of the atmosphere and ocean
EMSC3002_L21	L21 MVT Deposits	L21 The Evolution of Plants Through Time	L21 Missions & Future Opportunities	L21 Poster Development	L21 Contact Metamorphism & Metacarbonates	L21 Aquifer Recharge	L21 Case studies - Antarctica, Macquarie Island, Greenland	L21 Modelling Magnetic Anomalies	L21 LLSVPs and Dynamic Topography	L21 Coupled climate dynamics and Australian weather
EMSC3002_L22	L22 MVT Deposits	L22 Greening of the Australian Continent	L22 Research Presentations	L22 Poster Development	L22 Ultra High Pressure & Temperature	L22 Water Justice	L22 Case studies - Greenland, Macquarie Island, Greenland	L22 Modelling Magnetic Anomalies	L22 Quantifying Residual Topography	L22 Coupled climate dynamics and Australian weather
EMSC3002_L23	L23 Supergene & Weathering	L23 Peer to peer teaching Part III	L23 Review Session	EMSC3020_L23 Poster	EMSC3024_L23	L23 From Earth Observation to Earth Information	L23 Synthesis of observations	L23 Project Presentation	L23 Recap and Revision Session	L23 Coupled climate dynamics and Australian weather
EMSC3002_L24	L24 Supergene & Weathering	L24 Peer to peer teaching Part III	L24 Research Presentations & CATME	EMSC3020_L24 Poster	EMSC3024_L24	L24 GRACE-FO measurements for water studies	L24 The Future of the Antarctic Ice Sheet	L24 Project Presentation	EMSC3034_L24 Exam	L24 Australian Weather