Archaeology

UNDERSTANDING THE PAST I
UNDERSTANDING THE PAST II

ARCHAEOLOGY: THEORY AND PRACTICE
ARCHAEOLOGICAL FINDS: FROM FIELD TO PUBLICATION
OPTIONS 20 CREDITS FROM:
MAPPING THE HUMANITIES (20)
MEDIEVAL EUROPE & THE MEDITERRANEAN (20)
THE CITY OF ROME (20)
THE SILK ROAD (20)
HERITAGE AND THE MEDIA (20)
INTRODUCTION TO ANCIENT GREEK MEDICINE (20)
THROUGH A GLASS DARKLY (20)
THE WORLD OF THE MYCENAEANS (20)

NATURAL SCIENCES SYNOPTIC MODULE
OPTIONS 40-60 CREDITS FROM:
MAPPING THE HUMANITIES (20)
MEDIEVAL EUROPE & THE MEDITERRANEAN (20)
THE CITY OF ROME (20)
THE SILK ROAD (20)
HERITAGE AND THE MEDIA (20)
INTRODUCTION TO ANCIENT GREEK MEDICINE (20)
ISOTOPES & ENVIRONMENTAL ARCHAEOLOGY (20)
THROUGH A GLASS DARKLY (20)
THE WORLD OF THE MYCENAEANS (20)

NATURAL SCIENCES DISSERTATION
OPTIONS MIN 20/MAX 40 CREDITS FROM:
SPECIAL TOPICS 1 (20)
SPECIAL TOPICS 2 (20)

Biology

MOLECULAR BIOLOGY AND GENETICS SUBPATHWAY
GENES, MOLECULES AND CELLS

MOLECULAR BIOLOGY AND GENETICS SPECIALISM
THE GENOME & HUMAN DISEASE
BACTERIAL GENES & DEVELOPMENT
MICROBIAL BIOTECHNOLOGY

OPTIONS 20 CREDITS FROM:
EVOLUTIONARY BIOLOGY OF ANIMALS (10)
INFECTION & IMMUNITY (20)
DEVELOPMENTAL BIOLOGY (10)
NEUROBIOLOGY OF DISEASE (20)

MOLECULAR BIOLOGY AND GENETICS SPECIALISM
NATURAL SCIENCES SYNOPTIC MODULE
AGING, SEX AND DNA REPAIR
MOLECULAR BIOLOGICAL LAB SKILLS

OPTIONS 20 CREDITS FROM:
CURRENT TOPICS IN DEVELOPMENT & GENETICS (10)
MOLECULAR AND CELLULAR NEUROSCIENCE (10)
MOLECULAR PARASITOLOGY (10)
PATHOGENS: VACCINES & THERAPEUTICS (10)
CANCER BIOLOGY (10)
THE DYNAMIC CELL (10)

EVOLUTIONARY BIOLOGY & ECOLOGY SUBPATHWAY
EVOLUTION, ECOLOGY & BEHAVIOUR
LIFE ON EARTH

EVOLUTIONARY BIOLOGY & ECOLOGY SPECIALISM
ECOLOGY
THE GREEN PLANET

OPTIONS 20 CREDITS FROM:
BUILDING BRAINS (20)
EVOLUTIONARY BIOLOGY OF ANIMALS (10)
REPRODUCTIVE PHYSIOLOGY (10)
ANIMAL BEHAVIOUR & PHYSIOLOGY (20)
INSECT BIOLOGY (10)

EVOLUTIONARY BIOLOGY & ECOLOGY SPECIALISM
NATURAL SCIENCES SYNOPTIC MODULE
EVOLUTIONARY ECOLOGY
CONSERVATION

OPTIONS 20 CREDITS FROM:
CONSERVATION GENETICS (10)
EVOLUTION AND BEHAVIOUR (10)
MOLECULAR EVOLUTION (10)
AQUATIC BIOLOGY (10)
SCIENCE AND SOCIETY (10)

BIOLOGICAL RESEARCH PROJECT
RESEARCH PLANNING & PREPARATION
RESEARCH PRESENTATION SKILLS
OPTIONS MIN 0/MAX 20 CREDITS FROM:
PROCESS & PRACTICE IN SCIENCE (10)
CUTTING EDGE TECHNOLOGIES IN MOLECULAR BIOLOGY (10)
ADVANCED EXPERIMENTAL DESIGN & ANALYSIS (10)

Cancer Sciences

HALLMARKS OF CANCER
CAUSES AND CONSEQUENCES OF CANCER

ANGIOGENESIS AND TUMOUR-HOST INTERACTIONS
CANCER CELL GENETICS
LUNG CANCER AND BREAST CANCER

NATURAL SCIENCES SYNOPTIC MODULE
OPTIONS 40-60 CREDITS FROM:
CANCER IMMUNOLOGY & NOVEL THERAPEUTICS (20)
COLORECTAL CANCER AND OVARIAN CANCER (20)
TUMOUR MICROENVIRONMENTS (20)
CANCER BIOLOGY & MOLECULAR THERAPIES (20)
EPIDEMIOLOGY OF CANCER AND POPULATION GENETICS (20)
PAEDIATRIC CANCER (20)

NATURAL SCIENCES DISSERTATION
RESEARCH SKILLS & TECHNOLOGY EXPLOITATION
OPTIONS MIN 0/MAX 40 CREDITS FROM:
CELL, DEVELOPMENTAL AND MOLECULAR BIOLOGY (20)
TECHNIQUES IN CANCER RESEARCH (20)
TUMOUR PHYSIOLOGY (10)
CANCER STATISTICS & EPIDEMIOLOGY (10)
HOST TUMOUR INTERFACE (20)
TRANSLATIONAL TECHNOLOGIES FOR STEM CELLS (20)

Chemistry

FUNDAMENTAL CHEMISTRY THEORY & PRACTICAL

ORGANIC/INORGANIC CHEMISTRY SPECIALISM
CORE LAB WORK
INTERMEDIATE ORGANIC SPECTROSCOPY & STEREOCHEM
INTERMEDIATE SYNTHETIC ORGANIC CHEMISTRY
INTERMEDIATE INORGANIC CHEMISTRY

INORGANIC/PHYSICAL CHEMISTRY SPECIALISM
CORE LAB WORK
INTERMEDIATE INORGANIC CHEMISTRY
ENERGY, SPECTROSCOPY & SOLID STATE CHEMISTRY

OPTIONS 10 CREDITS FROM:
PRINCIPALS OF ANALYTICAL CHEMISTRY (10)
SUSTAINABLE CHEMISTRY (10)
ATMOSPHERIC CHEMISTRY (10)
MEDICINAL CHEMISTRY (10)

ORGANIC/INORGANIC CHEMISTRY SPECIALISM
NATURAL SCIENCES SYNOPTIC MODULE
ADVANCED LABORATORY TECHNIQUES
SYNTHESIS & REACTIVE INTERMEDIATES

INORGANIC/PHYSICAL CHEMISTRY SPECIALISM
NATURAL SCIENCES SYNOPTIC MODULE
ADVANCED LABORATORY TECHNIQUES
CHEMICAL BONDING, REACTIVITY & SURFACES

ONE FROM:
CATALYSIS, BIOINORGANIC & SUPRAMOLECULAR CHEMISTRY (20)
TOPICS IN INORGANIC CHEMISTRY (10)
OPTIONS 0-20 CREDITS FROM:
COMMUNICATING CHEMISTRY (10)
CONTEMPORARY DRUG DISCOVERY (10)
CHEMICAL BIOLOGY & ENZYMES (10)
PROTEIN STRUCTURE & BIOSPECTROSCOPY (10)
STRUCTURE DETERMINATION METHODS (10)

CHEMISTRY RESEARCH PROJECT
OPTIONS MIN 20/MAX 60 CREDITS FROM:
ADVANCED BIOCATALYSIS, BIOSYNTHESIS & CHEMICAL BIOLOGY (10)
ADVANCED PHYSICAL CHEMISTRY 1 (10)
ADVANCED PHYSICAL CHEMISTRY 2 (10)
CONTEMPORARY ORGANIC SYNTHESIS (10)
ENTERPRISE FOR CHEMISTS (10)
INORGANIC & MATERIALS CHEMISTRY A (10)
INORGANIC & MATERIALS CHEMISTRY B (10)
MEDICINE FROM NATURE/PHARMACEUTICAL PROCESS CHEMISTRY (10)
MOLECULAR INTERACTIONS AND SUPRAMOLECULAR ASSEMBLY (10)
NUCLEIC ADICS & BIOORGANIC MECHANISM (10)

Earth Science

EARTH, ATMOSPHERE AND OCEANS
10 CREDITS FROM:
INTRODUCTION TO GIS (10)
PHYSICAL LANDSCAPES OF BRITAIN (10)

60 CREDITS FROM:
RIVERS IN THE LANDSCAPE (20)
SPATIAL DECISION MAKING (20)
SOILS (10)
THE URBAN ENVIRONMENT (10)
COMPUTER MODELLING: INTRODUCTION (20)
EARTH OBSERVATION (20)
ENVIRONMENTAL GEOCHEMISTRY (10)

NATURAL SCIENCES SYNOPTIC MODULE
40-60 CREDITS FROM:
ADVANCES IN REMOTE SENSING (20)
ENVIRONMENTAL MODELLING (20)
ENVIRONMENTAL POLLUTANTS (20)
FRESHWATER MANAGEMENT (20)
COMPUTER MODELLING: APPLICATIONS (20)
ENVIRONMENTAL POLLUTANTS FIELD COURSE (10)
PALEOBIOLOGY (10)
SUSTAINABLE SOIL MANAGEMENT (10)

MSCI RESEARCH PROJECT
PROJECT MANAGEMENT
STATISTICS & EXPERIMENTAL DESIGN
WRITING & REVIEWING RESEARCH PROPOSALS
COMMUNICATION & PUBLIC ENGAGEMENT FOR SCIENTISTS
OPTIONS MIN 0/MAX 10 CREDITS FROM:
ADVANCES IN MANAGING RIVERS AND CATCHMENTS (10)

Ecosystems & Environment

PLANET EARTH: EXPLORING PHYSICAL ENVIRONMENT
20 CREDITS FROM:
BUILDING A HABITABLE PLANET (20)
PHYSICAL LANDSCAPES OF BRITAIN (10)
PRINCIPLES OF ECOLOGY (20)
ON EARTH AND LIFE (10)

60 CREDITS FROM:
THE CHANGING ENVIRONMENT (20)
PATTERNS OF LIFE (20)
ECOSYSTEM PROCESSES (10)
FOREST ECOLOGY & MANAGEMENT (20)
THE URBAN ENVIRONMENT (10)
CLIMATE CHANGE SCIENCE (10)
COMPUTER MODELLING: INTRODUCTION (20)
ECOLOGICAL SURVEYING (10)
INSECT BIOLOGY (10)

NATURAL SCIENCES SYNOPTIC MODULE
40-60 CREDITS FROM:
ARCTIC ECOLOGY FIELD COURSE (10)
CLIMATE CHANGE MITIGATION (10)
COMPUTER MODELLING: APPLICATIONS (20)
ENVIRONMENTAL BIOTECHNOLOGY (10)
ENVIRONMENTAL MODELLING (20)
GLOBAL CLIMATE CHANGE (20)
PALEOBIOLOGY (10)
TROPICAL ECOLOGY & CONSERVATION (10)
TROPICAL ENVIRONENTS IN THE ANTHROPOCENE (20)
UNEARTHING THE PAST (20)

MSCI RESEARCH PROJECT
PROJECT MANAGEMENT
STATISTICS & EXPERIMENTAL DESIGN
WRITING & REVIEWING RESEARCH PROPOSALS
COMMUNICATION & PUBLIC ENGAGEMENT FOR SCIENTISTS
OPTIONS MIN 0/MAX 10 CREDITS FROM:
ECOSYSTEM FUNCTION, MANAGEMENT & CONSERVATION (10)

Maths

CALCULUS & LINEAR ALGEBRA

APPLIED, COMPUTATION AND STATISTICS SPECIALISM
VECTOR CALCULUS
DIFFERENTIAL EQUATIONS & FOURIER ANALYSIS
OPTIONS 40 CREDITS FROM:
MODELLING WITH DIFFERENTIAL EQUATIONS (20)
INTRODUCTION TO SCIENTIFIC COMPUTING (20)
APPLIED STATISTICS AND PROBABILITY (20)

MATHEMATICAL PHYSICS SPECIALISM
VECTOR CALCULUS
DIFFERENTIAL EQUATIONS & FOURIER ANALYSIS
MODELLING FOR DIFFERENTIAL EQUATIONS
INTRODUCTION TO MATHEMATICAL PHYSICS

APPLIED, COMPUTATION AND STATISTICS SPECIALISM
NATURAL SCIENCES SYNOPTIC MODULE
OPTIONS 50 CREDITS FROM:
CODING AND CRYPTOGRAPHY (10)
FLUID DYNAMICS (20)
GAME THEORY (10)
MATHEMATICAL MEDICINE & BIOLOGY (20)
OPTIMIZATION (20)
SCIENTIFIC COMPUTATION AND NUMERICAL ANALYSIS (20)

MATHEMATICAL PHYSICS SPECIALISM
NATURAL SCIENCES SYNOPTIC MODULE
OPTIONS 50 CREDITS FROM:
ADVANCED QUANTUM THEORY (20)
CODING AND CRYPTOGRAPHY (10)
ELECTROMAGNETISM (20)
FLUID DYNAMICS (20)
GAME THEORY (10)
RELATIVITY (20)
TECHNIQUES FOR DIFFERENTIAL EQUATIONS (20)

MATHEMATICS DISSERTATION
OPTIONS MIN 40/MAX 80 CREDITS FROM:
BLACK HOLES (20)
COMPUTATIONAL APPLIED MATHEMATICS (20)
DIFFERENTIAL GEOMETRY (20)
FINANCIAL MATHEMATICS (20)
INTRODUCTION TO QUANTUM INFORMATION SCIENCE (20)
SCIENTIFIC COMPUTING AND C++ (20)
STATISTICAL FOUNDATIONS (20)
TECHNIQUES FOR DIFFERENTIAL EQUATIONS (20)
TIME SERIES & FORECASTING (20)
TOPICS IN BIOMEDICAL MATHEMATICS (20)

Physics

FROM NEWTON TO EINSTEIN

EXPERIMENTAL PHYSICS SPECIALISM
CLASSICAL FIELDS
EXPERIMENTAL TECHNIQUES & INSTRUMENTATION
THE QUANTUM WORLD

THEORETICAL PHYSICS SPECIALISM
THERMAL & STATISTICAL PHYSICS
OPTICS & ELECTROMAGNETISM
OPTIONS 20 CREDITS FROM:
INTRO TO SCIENTIFIC COMPUTING (20)
STRUCTURE OF STARS (10)
FORCE AND FUNCTION AT THE NANOSCALE (10)
HEALTH PHYSICS (10)
STRUCTURE OF GALAXIES (10)

EXPERIMENTAL PHYSICS SPECIALISM
NATURAL SCIENCES SYNOPTIC MODULE
PHYSICS LAB PROJECT
ATOMS, PHOTONS & FUNDAMENTAL PARTICLES
THERMAL & STATISTICAL PHYSICS

THEORETICAL PHYSICS SPECIALISM
NATURAL SCIENCES SYNOPTIC MODULE
PHYSICS LAB PROJECT
ATOMS, PHOTONS & FUNDAMENTAL PARTICLES
INTRO TO SOLID STATE PHYSICS

PHYSICS RESEARCH PROJECT
CORE FOR BIOLOGY, CHEMISTRY, EARTH SCIENCE, PSYCHOLOGY STUDENTS
SOLID STATE PHYSICS
OPTIONS MIN 20/40/MAX 40/60 CREDITS FROM:
ATMOSPHERIC & PLANETARY PHYSICS (10)
EXTREME ASTROPHYSICS (10)
FUNCTIONAL MEDICAL IMAGING (10)
FROM ACCELERATORS TO MEDICAL IMAGING (10)
INTRODUCTION TO COSMOLOGY (10)
MAGNETIC RESONANCE (10)
SEMICONDUCTOR PHYSICS (10)
SOFT CONDENSED MATTER (10)
THEORETICAL PARTICLE PHYSICS (10)

Psychology

COGNITIVE NEUROSCIENCE SPECIALISM
COGNITIVE PSYCHOLOGY 1
BIOLOGICAL PSYCHOLOGY

COGNITIVE NEUROSCIENCE SPECIALISM
COGNITIVE PSYCHOLOGY 2
NEUROSCIENCE & BEHAVIOUR
RESEARCH METHODS AND ANALYSIS

COGNITIVE NEUROSCIENCE SPECIALISM
NATURAL SCIENCES SYNOPTIC MODULE
NEUROPSYCHOLOGY & APPLED NEUROIMAGING
NEUROPSYCHOLOGY OF ACTION
THE VISUAL BRAIN
OPTIONS 20 CREDITS FROM:
ALTRUISM, COOPERATION & HELPING (10)
COGNITIVE DEVELOPMENT & AUTISM (10)
SOCIAL NEUROSCIENCE RESEARCH (20)
MECHANISMS OF LEARNING & PSYCHOPATHOLOGY (20)

SOCIAL & DEVELOPMENTAL PSYCHOLOGY SPECIALISM
COGNITIVE PSYCHOLOGY 1
SOCIAL PSYCHOLOGY
DEVELOPMENTAL PSYCHOLOGY

SOCIAL & DEVELOPMENTAL PSYCHOLOGY SPECIALISM
COGNITIVE PSYCHOLOGY 2
CONCEPTUAL & HISTORICAL ISSUES
PERSONALITY & INDIVIDUAL DIFFERENCE
SOCIAL & DEVELOPMENTAL PSYCHOLOGY

SOCIAL & DEVELOPMENTAL PSYCHOLOGY SPECIALISM
NATURAL SCIENCES SYNOPTIC MODULE
UNDERSTANDING NEURODEVELOPMENTAL DIFFERENCES
OPTIONS 40 CREDITS FROM:
ALTRUISM, COOPERATION AND HELPING (10)
APPLYING SOCIAL PSYGHOLOGY TO SOCIETAL PROBLEMS (10)
CLINICAL PSYCHOLOGY (10)
COGNITIVE DEVELOPMENT & AUTISM (10)
CURRENT ISSUES IN PSYGOLOGY (10)
EDUCATIONAL PSYCHOLOGY (10)
FORENSIC & MENTAL HEALTH (10)
SOCIAL NEUROSCIENCE RESEARCH (20)

PSYCHOLOGY DISSERTATION
OPTIONS MIN 20/40/MAX 80 CREDITS FROM:
ADVANCED METHODS IN PSYCHOLOGY (20)
CHILDHOOD CLINICAL AND BEHAVIOURAL DISORDERS (20)
CURRENT ISSUES IN COGNITIVE NEUROSCIENCE (10)
DATA ANALYSIS FOR NEUROIMAGING (10)
INTRO TO MATLAB PROGRAMMING (10)
NEURODEVELOPMENTAL DISORDERS (10)
PSYCHOLOGICAL ASSESSMENT (20)