



WESTERN VILLE UNIVERSITY
Integrity & Performance

Master of Science Curriculum

S/N	DISCIPLINE	Fall Subjects	Spring Subjects	Fall Subjects
1	Accounting and Finance	<ul style="list-style-type: none"> *Cross Sectional Econometrics *Corporate Financial Reporting *Asset Pricing *Corporate Finance *Qualitative Research Methods *Current Issues in Empirical Finance (Optional) *Real Options in Corporate Finance (Optional) (Optional) 	<ul style="list-style-type: none"> *Qualitative Research Methods *International Accounting Practice and Regulation *Portfolio Investment *Advanced Management Accounting *Mergers & Acquisitions: Economic & Financial *Time Series Econometrics (Optional) *Financial Statement Analysis (Optional) 	<ul style="list-style-type: none"> *International Finance *Corporate Governance in an Accounting Context (Optional) *Accounting & Society (Optional) <p>Dissertation</p>
2	Actuarial Science	<ul style="list-style-type: none"> *Martingales Theory for Finance *Time Series Analysis and Forecasting in Finance *Generalized Linear Models and Survival Analysis *Actuarial Models I *Insurance Law 	<ul style="list-style-type: none"> *Stochastic Modeling in Finance *General Insurance *Risk Theory *Quantitative Risk Management *Actuarial Models II 	<ul style="list-style-type: none"> *Simulation & Risk Analysis *Business to Business Marketing <p>Dissertation</p>
3	Advanced Professional Accounting	<ul style="list-style-type: none"> *Investment *Financial Institutions And Markets *International Financial Management *Intermediate Financial Management *Strategic and Operations Management *Federal Income Tax (Individual) (Optional) *Option Pricing: Theory And Strategic Applications (Optional) 	<ul style="list-style-type: none"> *Security Analysis *Personal Financial Planning *Problems In Business Finance *Short-Term Financial Management *Speculative Markets *Federal Income Tax (Corporate) (Optional) *Real Estate Finance (Optional) 	<ul style="list-style-type: none"> *Futures Trading Strategies *Introduction To Risk Management And Insurance (Optional) <p>Dissertation</p>
4	Advanced Safety Science Practice	<ul style="list-style-type: none"> *Risk Engineering *Human Factors Engineering *Accident Forensics 	<ul style="list-style-type: none"> *Transport Safety Management *Emergency Services Safety *Air Safety Investigation 	<ul style="list-style-type: none"> *Road Safety Investigation *Rail Safety Investigation *Industrial Accident

				Investigation Dissertation
5	Agribusiness Management	<ul style="list-style-type: none"> *Applied Econometrics *Behavioral and Experimental Economics *Business Development and Innovation *Entrepreneurship and Innovation *Microeconomic and Econometric Production Analysis *Applied Environmental and Natural Resource Economics (Optional) 	<ul style="list-style-type: none"> *Industrial Organization *Economic Valuation Methods and Cost-Benefit Analysis *Advanced Development Economics *Advanced International Trade *Agricultural and Food Policy *Agricultural Value Chains in Developing Countries (Optional) 	<ul style="list-style-type: none"> *Applied Economics of Consumption *Computational Methods for Policy Analysis in AgriFood Markets *Economic Efficiency and Benchmarking *Incentives and Regulation (Optional) *Economic Growth and Development (Optional) *Contracts and Cooperatives (Optional) Dissertation
6	Applied Finance	<ul style="list-style-type: none"> *Modern Finance *Corporate Finance *Macroeconomic Analysis *Applied Microeconomics (Optional) *Development Finance(Optional) *International Money and Finance (Optional) 	<ul style="list-style-type: none"> *Econometric Methods *Asset Pricing *Monetary Economics *Applied Macroeconomics (Optional) *Public Economics (Optional) 	<ul style="list-style-type: none"> *Public Policy Evaluation (Optional) *International Trade (Optional) Dissertation
7	Applied Psychology	<ul style="list-style-type: none"> *Work Design, Organizational Change and Development *Applying Psychology to Work and Organizations *Leadership, Engagement and Motivation *Learning, Training and Development *Practical Issues in Psychological Research (e.g. working with children, RCTs) 	<ul style="list-style-type: none"> *Research Methods for Occupational Psychologists *Selection and Psychological Testing in Organizations *Statistical Methods for Occupational Psychologists *Well-being and Work *Advanced General Methods in Psychology (e.g. experience sampling, eye-tracking). 	<ul style="list-style-type: none"> *Qualitative Research Methods (e.g. Grounded theory, discourse analysis) Dissertation
8	Applied Statistics	<ul style="list-style-type: none"> *Linear Models & Non-parametric Regression *Statistical Computing *Statistical Inference *Multivariate Statistics *Quality Assurance and Control 	<ul style="list-style-type: none"> *Generalized Linear Models & Survival Analysis *Longitudinal Data Analysis *Markov Chain Monte Carlo (MCMC) *Design and Analysis of Experiments *Strategic and Operations Management 	Dissertation
9	Asset & Maintenance Management	<ul style="list-style-type: none"> *Fundamentals of asset management *Reliability Centered Maintenance *Failure Modes Effect Cause and Analysis (FMECA) *Condition Monitoring and Risk-Based Inspection *Data analysis and reliability predictions *Auditing Asset Management 	<ul style="list-style-type: none"> *Preventive, Predictive, Reactive and Proactive Maintenance *Computer Maintenance Management Systems (CMMS) *Data management and verification *Spares and Materials Management (Optional) 	<ul style="list-style-type: none"> *Strategic Asset Management *Asset Management & Maintenance Strategy *Design for Reliability & Asset Management *Turnaround Management Dissertation

		& Maintenance Organizations (Optional)		
10	Banking & Finance	<ul style="list-style-type: none"> *Econometric Methods *Modern Theory of Banking and Finance *International Money and Finance *Asset Pricing *Applied Microeconometrics 	<ul style="list-style-type: none"> *Macroeconomic Analysis *Applied Macroeconometrics *Development Finance *International Trade *Industrial Organization 	<ul style="list-style-type: none"> *Monetary Economics *Public Economics *Public Policy Evaluation <p>Dissertation</p>
11	Biostatistics	<p>*Introduction to Statistical Programming I (R). This class is an introduction to programming in R, targeted at statistics majors with minimal programming knowledge, which will give them the skills to grasp how statistical software works, tweak it to suit their needs, recombine existing pieces of code, and when needed create their own programs. Students will learn the core of ideas of programming (functions, objects, data structures, input and output, debugging, and logical design) through writing code to assist in numerical and graphical statistical analyses. Students will learn how to write maintainable code, and to test code for correctness. They will then learn how to set up stochastic simulations and how to work with and filter large data sets. Since code is also an important form of communication among scientists, students will learn how to comment and organize code to achieve reproducibility. Programming techniques and their application will be closely connected with the methods and examples presented in the co-requisite course. The primary programming package used in this course will be R. Prerequisite(s): None; familiarity with linear algebras is helpful Corequisite(s): Applied Biostatistical Methods I</p> <p>*Introduction to Statistical Theory and Methods I. This covers a formal introduction to the basic theory and methods of probability and statistics,</p>	<p>*Introduction to Statistical Programming II (SAS). This class is an introduction to programming in SAS, targeted at statistics majors with minimal programming knowledge, which will give them the skills to grasp how statistical software works, tweak it to suit their needs, recombine existing pieces of code, and when needed create their own programs. Students will learn the core of ideas of programming (data step, procedures, macros, ODS, input and output, debugging, and logical design) through writing code to assist in numerical and graphical statistical analyses. Students will learn how to write maintainable code, and to test code for correctness. They will then learn how to set up stochastic simulations and how to work with and filter large data sets. Since code is also an important form of communication among scientists, students will learn how to comment and organize code to achieve reproducibility. Programming techniques and their application will be closely connected with the methods and examples presented in the co-requisite course. The primary programming package focus used in this course will be SAS. Prerequisite(s): None; familiarity with linear algebras is helpful Corequisite(s): Applied Biostatistical Methods II</p> <p>*Introduction to the Practice of Biostatistics II. Successful working Biostatisticians draw on a wide range of skills including knowledge of biostatistical theory and</p>	<p>*Survival Analysis. Introduction to concepts and techniques used in the analysis of time to event data, including censoring, hazard rates, estimation of survival curves, regression techniques, applications to clinical trials. Interval censoring, informative censoring, competing risks, multiple events and multiple endpoints, time dependent covariates; nonparametric and semi-parametric methods. Prerequisite(s): Introduction to Statistical Theory and Methods I and Introduction to Statistical Theory and Methods II, or permission of the Director of Graduate Studies</p> <p>*Categorical Data Analysis. Topics in categorical modeling and data analysis/contingency tables; measures of association and testing; logistic regression; log-linear models; computational methods including iterative proportional fitting; models for sparse data; Poisson regression; models for ordinal categorical data, and longitudinal analysis. Prerequisite(s): Introduction to Statistical Theory and Methods I, Applied Biostatistical Methods I,</p>

		<p>including topics in probability theory with an emphasis on those needed in statistics, as well as probability and sample spaces, independence, conditional probability, random variables, parametric families of distributions, sampling distributions, and the central limit theorem. Core concepts are mastered through mathematical exploration, simulations, and linkage with the applied concepts studied in Introduction to Statistical Theory and Methods II. Prerequisite(s): Calculus or its equivalent (multivariate calculus) preferred. Familiarity with linear algebras is helpful.</p> <p>*Applied Biostatistical Methods I. This covers introduction to study design, descriptive statistics, and analysis of statistical models with one or two predictor variables. Topics include principles of study design, basic study designs, descriptive statistics, sampling, contingency tables, one- and two-way analysis of variance, simple linear regression, and analysis of covariance. Both parametric and non-parametric techniques are explored. Core concepts are mastered through team-based case studies and analysis of authentic research problems encountered by program faculty and demonstrated in practicum experiences in concert with Introduction to the Practice of Biostatistics I. Computational exercises will use the R and SAS packages. Prerequisite(s): 2 semesters of calculus or its equivalent (multivariate calculus preferred). Familiarity with linear algebras is helpful. Corequisites(s): Introduction to Statistical Theory and Methods I, Introduction to the Practice of Biostatistics I, Introduction to Statistical Programming I (R).</p> <p>*Introduction to the Practice</p>	<p>methods, understanding of general biology and medicine, and communication with collaborators at all levels. This course will build on fundamentals learned in Introduction to Statistical Theory and Methods I, Applied Biostatistical Methods I and Introduction to the Practice of Biostatistics I with an emphasis on integrating that knowledge in practice. The course will be primarily participatory with students interacting with top flight researchers to design biostatistical analyses. Researcher and student presentations will be a large part of the course, supplemented with readings from the literature. As with Introduction to the Practice of Biostatistics I, there will be strong emphasis on the development of communication skills via written and oral presentations. Prerequisite(s): Introduction to the Practice of Biostatistics I Corequisite(s): Introduction to Statistical Theory and Methods II, Applied Biostatistical Methods II</p> <p>*Statistical Methods for Learning and Discovery. This course surveys a number of techniques for high dimensional data analysis useful for data mining, machine learning and genomic applications, among others. Topics include principal and independent component analysis, multidimensional scaling, tree based classifiers, clustering techniques, support vector machines and networks, and techniques for model validation. Core concepts are mastered through the analysis and interpretation of several actual high dimensional genomics datasets. Prerequisite(s): Introduction to Statistical Theory and Methods I through Introduction to the Practice of Biostatistics II, or their equivalents</p> <p>*Clinical Trial Design and</p>	<p>Introduction to Statistical Theory and Methods II, and Applied Biostatistical Methods II</p> <p>*Analysis of Correlated and Longitudinal Data. Topics include linear and nonlinear mixed models; generalized estimating equations; subject specific versus population average interpretation; and hierarchical model. Prerequisite(s): Introduction to Statistical Theory and Methods I, Applied Biostatistical Methods I, Introduction to Statistical Theory and Methods II, and Applied Biostatistical Methods II.</p> <p>*Generalized Linear Models. The class introduces the concept of exponential family of distributions and link function, and their use in generalizing the standard linear regression to accommodate various outcome types. Theoretical framework will be presented but detailed practical analyses will be performed as well, including logistic regression and Poisson regression with extensions. Majority of the course will deal with the independent observations framework. However, there will be substantial discussion of longitudinal/clustered data where correlations within clusters are expected. To deal with such data the Generalized Estimating Equations and the Generalized Linear Mixed models will be introduced. An</p>
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of Biostatistics I. This covers introduction to biology at a level suitable for practicing biostatisticians and directed practice in techniques of statistical collaboration and communication. With an emphasis on the connection between biomedical content and statistical approach, this course helps unify the statistical concepts and applications learned in Introduction to Statistical Theory and Methods I and Applied Biostatistical Methods I. In addition to didactic sessions on biomedical issues, students are introduced to different areas of biostatistical practice at an accredited facility of a Medical Center. Biomedical topics are organized around the fundamental mechanisms of disease from both evolutionary and mechanistic perspectives, illustrated using examples from infectious disease, cancer and chronic /degenerative disease. In addition, students learn how to read and interpret research and clinical trial papers. Core concepts and skills are mastered through individual reading and class discussion of selected biomedical papers, team-based case studies and practical sessions introducing the art of collaborative statistics. Corequisite(s): Introduction to Statistical Theory and Methods I, Applied Biostatistical Methods I

***Introduction to Statistical Theory and Methods II.** This covers formal introduction to the basic theory and methods of probability and statistics, including statistical inference, as well as classical and Bayesian methods, and statistical models for discrete, continuous and categorical outcomes. Core concepts are mastered through mathematical exploration, simulations, and linkage with

Analysis. Topics include: history/background and process for clinical trial, key concepts for good statistics practice (GSP)/good clinical practice (GCP), regulatory requirement for pharmaceutical/clinical development, basic considerations for clinical trials, designs for clinical trials, classification of clinical trials, power analysis for sample size calculation, statistical analysis for efficacy evaluation, statistical analysis for safety assessment, implementation of a clinical protocol, statistical analysis plan, data safety monitoring, adaptive design methods in clinical trials (general concepts, group sequential design, dose finding design, and phase I/II or phase II/III seamless design) and controversial issues in clinical trials. Prerequisite(s): Introduction to Statistical Theory and Methods I and Introduction to Statistical Theory and Methods II, or permission of the Director of Graduate Studies

***Observational Studies.** Methods for causal inference, including confounding and selection bias in observational or quasi-experimental research designs, propensity score methodology, instrumental variables, and methods for non-compliance in randomized clinical trials. Prerequisite(s): Introduction to Statistical Theory and Methods I and Applied Biostatistical Methods I.

***Statistical Genetics and Genetic Epidemiology.** Topics from current and classical methods for assessing familiarity and heritability, linkage analysis of Mendelian and complex traits, family-based and population-based association studies, genetic heterogeneity, epistasis, and gene-environmental interactions. Computational methods and applications in

introduction to a Bayesian analysis approach will be presented, time permitting. Prerequisite(s): Introduction to Statistical Theory and Methods I, Applied Biostatistical Methods I, Introduction to Statistical Theory and Methods II, and Applied Biostatistical Methods II.

Dissertation: Completed during a student's final year of study, the project is performed under the direction of a faculty mentor and is intended to demonstrate general mastery of biostatistical practice. Prerequisite(s): Introduction to Statistical Theory and Methods I through Introduction to the Practice of Biostatistics II

Corequisite(s): Statistical Methods for Learning and Discovery

the applied concepts studied in Applied Biostatistical Methods II.

Prerequisite(s): Introduction to Statistical Theory and Methods I or its equivalent
Corequisite(s): Applied Biostatistical Methods II, Introduction to the Practice of Biostatistics II

***Applied Biostatistical Methods II.** This course provides an introduction to study design, descriptive statistics, an analysis of statistical models with continuous, dichotomous and survival outcomes, with one or more predictor variables. Topics include mixed effects models, likelihood and Bayesian estimation, generalized linear models (GLM) including binary, multinomial and log-linear models, basic models for survival analysis and regression models for censored survival data, clustered data, and model assessment, validation and prediction. Both parametric and non-parametric techniques are explored. Core concepts are mastered through team-based case study and analysis of authentic research problems encountered by program faculty and demonstrated in practicum experiences in concert with Introduction to the Practice of Biostatistics II. Computational exercises use the SAS and R packages.

Prerequisite(s): Applied Biostatistical Methods I or its equivalent; linear and matrix algebra

Corequisite(s): Introduction to Statistical Theory and Methods II, Introduction to the Practice of Biostatistics II, Introduction to Statistical Programming II (SAS)

***Biostatistics Career Preparation and Development I.** The purpose of this course is to give the student a holistic view of

current research areas. The course will include a simple overview of genetic data, terminology, and essential population genetic results. Topics will include sampling designs in human genetics, gene frequency estimation, segregation analysis, linkage analysis, tests of association, and detection of errors in genetic data.

Prerequisite(s): Introduction to Statistical Theory and Methods I and Introduction to Statistical Theory and Methods II.

***Biostatistics Career Preparation and Development II.**

The purpose of this course is to further develop the student's job seeking ability and the practical aspects of job/internship search or interviewing for a PHD program. The goal is to learn these skills once and use them for a lifetime. Modules that will be covered include: Communication skills, written and oral, interviewing with videotaped practice and review, negotiating techniques, potential career choices in the Biostatistics marketplace, and working on a team. This semester includes writing and interviewing practicum, and a panel of relevant industry speakers. Students will leave this course with the knowledge to manage their careers now and in the future.

		<p>career choices and development and the tools they will need to succeed as professionals in the world of work. The fall semester will focus on resume development, creating a professional presence, networking techniques, what American employers expect in the workplace, creating and maintaining a professional digital presence and learning how to conduct and succeed at informational interviews. Practicums in this semester include an informational interviewing and networking practicum with invited guests. Students participate in a professional “etiquette dinner” and a “dress for success” module as well an employer panel.</p> <p>Corequisite(s): Introduction to Statistical Theory and Methods I through Introduction to the Practice of Biostatistics I</p>		
12	Biotechnology & Business	<p>Note: The course is taught based around three major areas of Business Management, Biotechnology & Molecular Biology and Bioprocessing, with focus on Manufacture of biochemicals, pharmaceuticals, devices and materials; Genetic engineering and the fundamentals of biotechnology; Business management, economics and finance; Marketing management; Commercialization of products, IP; Food, biotechnology and microbiological processing; Fuels and energy; Industries based on renewable and sustainable resources; Production technologies; Plant design and economic analysis; etc.</p> <p>*The Fundamentals of Biotechnology *Molecular Biology and Genetic Engineering *Biochemical Engineering</p>	<p>*Business Strategy *Accounting and Financial Management *Marketing Management *Entrepreneurship & Commercialization *Fundamental Principles of Drug Discovery (Optional) *E-business: Technology and Management (Optional)</p>	<p>*Biopharmaceutical Product & Clinical Development *Microbiomics & Metagenomics (Optional) *Environmental Protection, Risk Assessment and Safety (Optional) *Impact of Biotechnology on the Use of Natural Resources (Optional) *Chemotherapy of Infectious Diseases (Optional) *Vaccines and Gene Therapy (Optional) *Essentials of Medical Genomics (Optional) *Laboratory Skills (Optional)</p> <p>Dissertation</p>

		*Bioproduct Plant Design and Economic Analysis		
13	Creative & Cultural Industries Management	*Introduction to the Creative and Cultural Industries *Critical Theories and Concepts in the Creative and Cultural Industries *Cultural Marketing *Accounting and Financial Management *Research Methods	*Managing Museums and Cultural Heritage Sites *Fundraising Management: sponsorship, philanthropy and the state *Managing Creative Brands *Managing Festivals, Events and Creative Performances *Music Management Planning	*Music Management Events Dissertation
14	Clinical & Health Psychology	*Research Methods I: Conducting Applied Research *Facilitating Change 1 *Evidence-based psychological interventions and therapies for mental and physical health problems *Integrative theoretical approaches to psychological interventions and behavior change *Psychobiology of health and illness *Mind and Body (Optional)	*Research Methods II: Design and Analysis *Facilitating Change 2 *Socio-cultural aspects of health *Advanced research methodology, encompassing quantitative and qualitative analytic techniques	*Health and Society *Professional Issues *Health Behavior Change (Optional) *Illness & Health Care (Optional) Dissertation
15	Commerce	*Introduction to Consulting and Advisory Thinking *Global Strategy and Systems *Strategic Cost Management *Financial Accounting *Human Resource Management	*Marketing and Quantitative Analysis *Organizational Behavior and Communication *Business Analytics *Accounting and Finance *Project Management	*Marketing and Management *E-Business *Global Immersion Experience (GIE Abroad) Dissertation
16	Communication Technology	*Innovation by design thinking *Fundamentals of Micro- and Nanotechnology *Concepts and Theory of Compound Semiconductor Photonics *Software Tools and Simulation *Advanced Communication Systems	*Access and transport networks *Network and service management *Internet network architecture *HF and RF Engineering	*Information Security *Dependability and Performance Design *Advanced software design *Advanced CAD, Fabrication and Test Dissertation
17	Computer Science	*Automated Reasoning and Verification *Modeling Data on the Web *Principles of Digital Biology *Introduction to Health Informatics *Parallel Programs and their Performance *IT Governance (Optional) *Foundations of Machine Learning (Optional) *Text Mining (Optional) *Ontology Engineering for the Semantic Web (Optional)	*Designing for Parallelism and Future Multi-core Computing *Data Engineering *Modeling and Visualization of High-Dimensional Data *Mobile and Energy Efficient Systems *Mobile Communications *Cyber Security (Optional) *Software Engineering Concepts in Practice (Optional)	*Computer Vision (Optional) *Cryptography (Optional) *Component-based Software Development (Optional) *Pattern-Based Software Development (Optional) *Querying Data on the Web (Optional) *Agile and Test-Driven Development (Optional) Dissertation

18	Conservation Biology	<ul style="list-style-type: none"> *Multidisciplinary Perspectives on Conservation *Population and Evolutionary Biology *Analytical Methods for Ecologists *Research Skills for Natural Sciences *Ecotourism and Rural Development (Optional) *Conservation Biology in Principle and Practice *Tropical Conservation Biology (Optional) 	<ul style="list-style-type: none"> *Economics of Biodiversity Conservation *Advanced Topics in Primate Behavior *Conservation and Community Development *Integrated Species Conservation and Management *Environmental Policy and Law (Optional) *Environmental Pollution Management Strategies (Optional) 	<ul style="list-style-type: none"> *Managing Protected Areas *Principles of Geographic Information Systems (GIS) and Remote Sensing *International Wildlife Trade - Achieving Sustainability *Research Methods for Social Science (Optional) *Environmental Impact Assessment (Optional) *Habitat Management (Optional) <p>Dissertation</p>
19	Data Science	<ul style="list-style-type: none"> *Machine Learning and Statistics I *Understanding Databases *Data Husbandry *Professional Skills and Practice *Applications in Data Science 	<ul style="list-style-type: none"> *Machine Learning and Statistics II *Applied Urban Analytics *Computer Science Data Informatics *Management and Business *Social Analytics 	<p>Dissertation</p>
20	Public Health	<ul style="list-style-type: none"> *Fundamentals of Epidemiology *Evidence Synthesis: Systematic Reviews *Guideline Development and Implementation *Oral Health & Disease in Populations *Implementing Strategy in Dental Services *Global Women's Public Health (Optional) *Primary Health Care *Qualitative Research Methods *Emergency Planning, Response & Resilience *Implementation Sciences *Health Services Management (Optional) *Intercultural Public Health (Optional) 	<ul style="list-style-type: none"> *Emergency Humanitarian Assistance *Health Promotion Theory & Methods *Promoting Health and Wellbeing in Practice *Working with Communities *Health Economics *Impact, Information and Evaluation (Optional) US Leadership and Public Health Strategy (Optional) 	<ul style="list-style-type: none"> *Advanced Epidemiology *Practical Statistics for Population Health (formerly Biostatistics) *Communicable Disease Control *Health Systems Challenges in Low and Middle Income Countries *Global Health in the 21st Century <p>Dissertation</p>
21	Development Studies	<ul style="list-style-type: none"> *Understanding Economic Migration: Theories, Patterns and Policies *Economics of inequality and deprivation *Forced migration and development *Aid and development *Basic econometrics 	<ul style="list-style-type: none"> *Behavioral economics: theory and applications *Environmental economics *Economic Perspectives on Development *Marxist Political Economy and Global Development *Power and Social Perspectives on Development (Optional) 	<ul style="list-style-type: none"> *Financial institutions and markets in developing countries *Neoliberalism, Democracy and Global Development *Gender, Identity and Inclusion (Optional) *Political Economy Perspectives on Development (Optional) *Climate Change and

				Development (Optional) Dissertation
22	Digital Curation	*Concepts and Theories of Digital Curation *Digital Curation Technologies and System Development *Archives Collection Development and Description *Digital Preservation *Research Data Management	*Web Publishing *Archive Services Management *Compliance Law and Ethics *Information Organization and Retrieval *Knowledge and Information Architecture	*Studies in Management (Optional) Dissertation
23	Digital Marketing	*Digital Production Tools And Techniques *Digital Public Relations *Methods, Metrics And Analytics *Emerging Trends in Digital Technology *Social Media Marketing (Optional) *Advertising and Persuasion Strategies (Optional)	*Digital Business Models *Data Analytics and Market Research *Marketing in the Digital Context *Ethical Business for Digital Marketing *E-Commerce (Optional) *Marketing in the Digital Context (Optional)	*Emerging Trends in Digital Technology *Digital Marketing Implementation *Digital Marketing Strategy *Digital Business Models *Marketing Management (Optional) *Brand Management (Optional) Dissertation
24	Economics	*Mathematical Methods in Economic Analysis *Microeconomic Theory *Macroeconomic Theory *Introduction to Quantitative Methods in Economics *Econometric Methods *Financial Econometrics *Mathematical Finance *Non-Market Valuation *Topics in Economics of Health *Political Economics *Econometric Theory *Applied Development Economics Project (ADEP)	*Applied Macroeconometrics *Development Microeconomics *Cross Section Econometrics *Macroeconomic Theory and Policy *Public Economics *Poverty, Inequality and Government Policy in Less Developed Countries (Optional)	*Mathematical Economics *Economic Growth (Optional) *Natural Resource Economics (Optional) *Financial Economics (Optional) Dissertation
25	Energy Management	*Smart Grids & Sustainable Electricity Systems *Techniques for Research and Industry *Introduction to Power Systems *Interfacing clean energy systems	*Understanding Energy as a 'system' driving modern society *Solar Energy Technologies *Zero Carbon Built Infrastructure *Marine Energy: Wind, Wave & Tidal	Term Paper: Energy Alternatives & Prospects Dissertation
26	Entrepreneurship Management	*Innovation and the Knowledge Economy *Innovation Management *High Technology Entrepreneurship *Financial Appraisal and Investment Economics *Research Methods	*Regional, National and Global Dimensions of Science, Technology and Innovation (Optional) *Eco-Innovation Management *Water and Sanitation Planning and Policy in developing countries (Optional)	*Innovation & Market Strategy *Business Creation and Development *Developing Enterprising Individuals (Optional)

		<ul style="list-style-type: none"> *Service Innovation *Case Studies in Technology Strategy & Innovation Management 		Dissertation
27	Human Resource Management	<ul style="list-style-type: none"> *Human Resource Development: Key Concepts *Human Resource Development & Leadership *Organization Development *Industrial Competitiveness and Global Transformation *Education Leadership (Optional) *Leading Educational Change and Development (Optional) *Educating for Sustainability (Optional) *Work and Employment in the Global Economy *The Politics and Governance of Development (Optional) 	<ul style="list-style-type: none"> *Organizational Change Strategies *Gender & Development *HRD and Research in an International Context *International Perspectives on Equity and Diversity in Education *Development Practice: International Contexts and Worlds of Action (Optional) 	<ul style="list-style-type: none"> *Civil Society & Public Action (Optional) *Learning, Training and Development (Optional) Dissertation
28	Informatics (Health)	<ul style="list-style-type: none"> *Placing Electronic Records at the Centre of Care *Evidence-based Practice and Health Care Information *The Internet, Web and E-Health *Information and Knowledge Management *Information Systems in Health 	<ul style="list-style-type: none"> *Introduction to Health Informatics *Introduction to Telehealth and Telecare *Public Health; Informatics Leadership, Strategy and Change *Analysis of Health Information 	Dissertation
29	Information & Library Studies	<ul style="list-style-type: none"> *Libraries, Information and Society *Information Literacy *Leadership, Strategy and Change *Information Retrieval: Search Engines and Digital Libraries *Information and Knowledge Management 	<ul style="list-style-type: none"> *Personal and Professional Development Portfolio *Public and Youth Library Services *Academic and Workplace Library, Information and Knowledge Services *Information Governance and Ethics *Database Design and Data Management 	Dissertation
30	Information Management	<ul style="list-style-type: none"> *IS Strategy & Enterprise Systems *Information and Knowledge Management *Data Engineering *IT Governance 	<ul style="list-style-type: none"> *Foundations of Machine Learning *Data Analytics for Business Decision Making *Simulation & Risk Analysis *Text Mining 	Dissertation
31	Information Technology	<ul style="list-style-type: none"> *Informatics Research Methods *Algorithms and data structures *Database Design & Development *Human computer interaction: design and evaluation *Programming 	<ul style="list-style-type: none"> *Systems and networks *Cyber security fundamentals *Process Oriented Requirements Engineering *Web Systems *Usability Engineering (Optional) *Cyber security forensics (Optional) 	<ul style="list-style-type: none"> *Data Mining and Exploration *Digitization *Enterprise cyber security *Cryptography and secure development *Internet technology (Optional) Dissertation

32	Information Technology for the Oil & Gas Industry	<ul style="list-style-type: none"> *Oil and Gas Exploration *Networking and Computer Technology *Data management *Data Visualization and Analysis *Petroleum Geoscience 	<ul style="list-style-type: none"> *O-O programming for Oil and Gas *Software Development and Database Systems *Web Systems Development & Interaction Design *Environmental Regulation and State Control of Oil and Gas 	<ul style="list-style-type: none"> *Intranet Systems Development (Optional) *Oil and Gas Contracts and Disputes (Optional) <p>Dissertation</p>
33	Information Technology Management	<ul style="list-style-type: none"> *Research Methods *Fundamentals of Quantitative Analysis *Machine Learning for Data Analytics *Information Systems Architecture *Business Analysis 	<ul style="list-style-type: none"> *Database & Web Systems Development *Information Retrieval *Information Systems and Security *Information Technology Auditing and Assurance *Business Continuity and Disaster Recovery *Information Law (Optional) 	<ul style="list-style-type: none"> *Managing Virtualized and Cloud Systems *Management Enterprise Resources Planning (ERP) Systems (Optional) *Ethical Considerations in Managing Information Technology (Optional) <p>Dissertation</p>
34	Information Technology with Business Intelligence	<ul style="list-style-type: none"> *Business Data Communication and Networks *Database Design and Implementation for Business *Information Systems Analysis and Design *Software Quality, Testing, and Security Management *Information Structures with Java and Python *Biomedical Sciences and Health IT (Optional) 	<ul style="list-style-type: none"> *Quantitative Methods for Information Systems *Network Security *Database Management *Business Continuity and Disaster Recovery *Web Analytics and Mining (Optional) 	<ul style="list-style-type: none"> *Electronic Health Records (Optional) *Server-Side Web Development (Optional) *Health Informatics (Optional) *Web Application Development (Optional) <p>Dissertation</p>
35	Information Technology with Cyber Security	<ul style="list-style-type: none"> *Information and Security Management *IT Infrastructure and Service Management *Object Oriented Programming *Data Management *Information Technology Security Policies and Procedures 	<ul style="list-style-type: none"> *Database and Web Security *Intranet Systems Development *Software Project Engineering *Data Visualization and Analysis *Digital Forensics and Investigations 	<ul style="list-style-type: none"> *Business Continuity and Disaster Recovery <p>Dissertation</p>
36	Information Technology with Network Management	<ul style="list-style-type: none"> *Systems and networks *Network Routing and Switching *Object Oriented Programming *Data Management *Information Technology Infrastructure and Service Management 	<ul style="list-style-type: none"> *Wireless Networking *Intranet Systems Development *Software Project Engineering *Data Visualization and Analysis 	<ul style="list-style-type: none"> *Internet network architecture <p>Dissertation</p>
37	International Business, with International Communication	<p>International Business</p> <ul style="list-style-type: none"> *Theories of International Business *Research Methods and Data Analysis in International and Comparative Business *Frontiers of International Business and Management 	<p>International Business</p> <ul style="list-style-type: none"> *Comparative Business and Management (Optional) *International Business Strategy *Responsible Business in a Global Environment * Multinational Business 	<ul style="list-style-type: none"> *Border-Crossings: Comparative Cultures of Diaspora (Optional) *Translating for International Organizations (Optional) *Topics in International Diplomacy (Optional)

		<ul style="list-style-type: none"> *Marketing Issues In International Business (Optional) *International Trade : Theory, Policy & Practice (Optional) *International Business Negotiations (Optional) *Advanced Research Methods and Data Collection in International Business (Optional) *Managing Across Cultures (Optional) *International Entrepreneurship (Optional) *International Business & Emerging Markets (Optional) <p>International Communication</p> <ul style="list-style-type: none"> *Language and identity in multicultural spaces *Memory, Mediation & Intercultural Relations *Introduction to Intercultural Communication (Optional) *Explorations in Intercultural Thinking *Developing Researcher Competence in Intercultural Communication 	<p>Finance (Optional)</p> <ul style="list-style-type: none"> *Multinationals and Technology Transfer in Economic Development (Optional) <p>International Communication</p> <ul style="list-style-type: none"> *English as a Global Language *Pragmatics: Meaning, Context, and Interaction *Language and Mediality: From Sand Drawings to Twitter *International Perspectives on Equity and Diversity in Education (Optional) *Intercultural Engagement at Work and in Communities (Optional) *Translation and Interpreting Studies I (Optional) 	<ul style="list-style-type: none"> *Postcolonial Literatures, Genres and Theories (Optional) *Humanitarianism and Conflict Response: Inquiries (Optional) *Foreign Language Learning for Intercultural Competence (Optional) <p>Dissertation</p>
38	International Business, with International Relations	<ul style="list-style-type: none"> *Theories of International Business *Research Methods and Data Analysis in International and Comparative Business *Frontiers of International Business and Management *International Trade : Theory, Policy & Practice *Multinational Business Finance (Optional) *International Business Negotiations (Optional) *Responsible Business in a Global Environment (Optional) 	<ul style="list-style-type: none"> *Power and Resistance in Postcolonial Societies *International Business Strategy *Marketing Issues In International Business (Optional) *Multinationals and Technology Transfer in Economic Development *International Entrepreneurship (Optional) *International Business & Emerging Markets (Optional) 	<ul style="list-style-type: none"> * Human Rights in World Politics *Ethics in World Politics *Foreign Policy Analysis *Advanced Research Methods and Data Collection in International Business (Optional) *Managing Across Cultures (Optional) <p>Dissertation</p>
39	International Marketing Management	<ul style="list-style-type: none"> *Marketing Theory and Practice *Marketing Strategy and Planning *International Business Management *Consumer Behavior across Cultures *Marketing Communications *E-Business (Optional) *International Fashion Marketing and Luxury 	<ul style="list-style-type: none"> *Direct, Digital and Interactive Marketing *Applied Marketing Research *Accounting and Finance for Business *Marketing Management *Corporate Communications *Research Methods for Social Sciences (Optional) 	<ul style="list-style-type: none"> *International Services Marketing *Business to Business Marketing *Brand Management (Optional) *Professional Skills and Employability (Optional) <p>Dissertation</p>

		Branding (Optional) *Corporate Social Responsibility and Sustainability (Optional)		
40	International Public Diplomacy	*Public diplomacy – concepts and methods *Public diplomacy in building bilateral relations *Building the national brand with public diplomacy *Public diplomacy Limitations	*Public diplomacy in the information age *Public diplomacy in international organizations *Public diplomacy in the postmodern world *Measuring Public Diplomacy Impact	Dissertation
41	International Relations	*Critical Thinkers in International Politics *Research Design *Ethics in World Politics *Security Studies *Critical Approaches to IPE *The Arab Uprisings and Revolutionary State Formation *Critical Globalization Studies	*Media, War and Conflict *Debating Justice *Theories of Rights *Human Rights in World Politics *The United Nations and International Security *Power and Resistance in Postcolonial Societies	*EU as an International Actor *Foreign Policy Analysis Note: *Seminar in International Relation Theory Dissertation
42	International Security Studies	*Research Design in the Social Sciences *Strategic Nonviolent Conflict *Terrorism and Counterterrorism *Transnational Organized Crime and National Security *Dynamics of Civil Wars *Democracy and Peace (Optional) *Russian & American Foreign Policies in Contrast (Optional) Note: Case Study Analysis of the Cold War; Congressional-Executive clashes over foreign policy control; approaches to policy analysis	*International Peace and Security *Violent and Non-Violent Conflicts *Introduction to Qualitative and Quantitative Methods *Conflict Resolution and Post-War Development *War and International Law *Global Political Economy (Optional) *European Politics and Society (Optional)	*Security: The Evolution of a Concept * Rebellion and Armed Conflict *Intelligence and US National Security *Emerging Powers in the Global System *Mexican National Security *International Relations of Sub-Saharan Africa (Optional) *Politics of Islamism (Optional) *Issues in Cybersecurity and Cyberwar *Gender as a Component of International Security (Optional) *International Politics of the Middle East Dissertation
43	Laboratory Quality Analysis & Management	*Introductory Statistics *Analysis and Measurement *Work, Organization and Management *Medicinal Chemistry *Microbiology and Molecular Biology *Managing Customer Relationships (Optional)	*Applied Statistics *Entrepreneurship in Business *Analytical Measurement Uncertainty and Method Validation *Laboratory Quality Systems *Functional Proteomics *Intercultural Communication (Optional)	*Project and Risk Management *Advanced Medicinal Chemistry *Statistical Methods in Bioinformatics *Safety and Quality in Hospital Care *Managing Cultural Diversity (Optional) Dissertation

44	Logistics & Supply Chain Management	<ul style="list-style-type: none"> *Global Operations Management *Strategic Supply Chain Management *Research Methods *Managing Projects *Data Analytics for Business Decision Making *Operational Excellence: The Toyota Production System 	<ul style="list-style-type: none"> *Simulation & Risk Analysis *Business to Business Marketing *Business Improvement Tools, Techniques and Systems *Global Supply Chain Management: Theories and Practice *Megaproject Leadership and Strategy 	<ul style="list-style-type: none"> *Supply Chain Logistics Management *Modeling Operations Processes *Sustainable Supply Chain Management <p>Dissertation</p>
45	Management & Business Administration	<ul style="list-style-type: none"> *Analyzing Companies *Organizational Design & Strategy: International Contexts *Comparative and Global Management *Business Models: Theory and Practice *Research Design and Methods *Digital Technologies, Development and Emerging Markets (Optional) 	<ul style="list-style-type: none"> *International Human Resource Management *The Political Economy of Global Business *The Management of International Organizational Change *Strategy Formulation *Business Environment and Strategy in China *Asian Business and Comparative Management (Optional) 	<ul style="list-style-type: none"> *Configuration of Companies for Capability Building (Optional) *Managing Organizations for Growth (Optional) <p>Dissertation</p>
46	Marine Science & Management	<ul style="list-style-type: none"> *Research Skills and Statistical Methods *Fisheries Ecology and Management *Oceanography and Marine Ecology *Ocean and Coastal Science *Marine Resources and Sustainability *Spatial Analysis (Optional) *GIS for Marine and Environmental Scientists (Optional) 	<ul style="list-style-type: none"> *Current Research in Marine Conservation *Environmental Impact Assessment *Marine Ecotoxicology *Biodiversity Conservation and Protected Areas *Climate Change: Mitigation and Adaptation Measures 	<ul style="list-style-type: none"> *Practical Skills in Marine Surveying *Applied Research Design & Analysis *Marine Biotechnology *Marine Environmental Monitoring (Optional) *Environmental Policy & Risk (Optional) <p>Dissertation</p>
47	Occupational Health & Safety Management	<p>Module 1 Occupational Health in Perspective; Introduction to Occupational Health Law; Introduction to Communication; Ethical Considerations in Practice; Introduction to Toxicology; Introduction to Occupational Hygiene; Introduction to Lighting; Introduction to Temperature and Work; Introduction to Noise and Vibration; Introduction to Hazardous Substances</p> <p>Module 2 Recognizing Occupational Disease; Introduction to Occupational Dermatology; Introduction to Musculoskeletal Disorders; Introduction to the Respiratory</p>	<p>Module 4 Management; Professional Behavior/Leadership and Teamwork; Communication; Clinical Governance; Practical Applications in Quality and Audit; Standard Setting; Business Needs in the Provision of an Occupational Health Service</p> <p>Module 5 Noise; Vibration; Radiation; Compressed Air Work and Commercial Diving; Temperature and Work; Light and Vision</p> <p>Module 6 Respiratory Disorders; Occupational Dermatoses; Musculoskeletal Disorders; Occupational Cancers; Aviation</p>	<p>Module 7 Epidemiology and Statistics; Life Long Learning; Evidence Based Practice; Critical Appraisal; Social Research Methods; Information Technology</p> <p>Module 8 Industry and Environment; Occupational Hygiene Practice; Food Safety and Hygiene; Prevention of Accidents; Principles of Toxicology *Occupational Health in a Global Market</p> <p>Dissertation</p>

		<p>System; Introduction to Occupational Infections; Mental Ill Health and Stress at Work; Introduction to Epidemiology; Health Assessment, Surveillance and Screening; Sickness Absence; Disability Assessment</p> <p>Module 3 Workplace and Clinical Assessment Skills: the Portfolio; Advanced Occupational Health Law; Health Promotion; Ageing and Employment; Ergonomics; Shift Work and Daily Rhythms; Rehabilitation and Return to Work; Choosing a Research Topic and Literature Review; Developing the Research Question; Common Mental Health Problems and the Workplace; Introduction to Audit</p>	<p>Medicine; Occupational Infections; Medically Unexplained Symptoms</p>	
48	Oil Rig & Gas Facilities Management	<ul style="list-style-type: none"> *Introduction to Oil and Gas Industry *Petroleum Fundamentals and Exploration *Reservoir Characterization *Reservoir Engineering and Simulation *Well Engineering 	<ul style="list-style-type: none"> *Petroleum contracts and economics *Impacts of Petroleum Exploration, Extraction and Transportation *Materials & Corrosion *HSE Management in the Oil and Gas Industry *Energy Economics Management and Risk Analysis 	<ul style="list-style-type: none"> *Unconventional Resources *International Environmental Law <p>Dissertation</p>
49	Organizational Psychology	<ul style="list-style-type: none"> *Research Methods 1 *Psychological Assessment at Work *Learning, Training and Development *Well-Being and Work *Work Design, Organizational Change and Development *Research Design, Advanced Data Gathering and Analytical Techniques *Training, Support and Development (Optional) 	<ul style="list-style-type: none"> *Research Methods 2 *Managing People and Organizations *Work Design, Performance & Wellbeing *Test User: Occupational - Ability and Personality *Relationships at Work 	<ul style="list-style-type: none"> *Applying Psychology to Work and Organizations *Selection and Assessment in Organizations *Leadership, Engagement and Motivation <p>Dissertation</p>
50	Petroleum Technology Management	<ul style="list-style-type: none"> *Reservoir Engineering Fundamentals *Basin Analysis *Exploration Group Project *Independent Research Project *Fundamentals of Petroleum Geoscience 	<ul style="list-style-type: none"> *Prospect Evaluation and Petroleum Economics *Development Group Project *Field Appraisal and Development *Play Fairway Analysis *Communication Skills and Fieldwork 	<ul style="list-style-type: none"> *Health, Safety & Environment *Field Depletion Planning *Key Interpretation Skills <p>Dissertation</p>
51	Project Management	<ul style="list-style-type: none"> *Introduction to Project Management *Integration Management, 	<ul style="list-style-type: none"> *Project Contract, Commercial and Procurement Management *Project Scope and Quality 	<ul style="list-style-type: none"> * Econometric Methods *Health, Safety & Environment

		<p>Integrated Master Scheduling, and Governance</p> <ul style="list-style-type: none"> *Project Planning and Resource Management *Project Cost, Risk and Benefits Management *Quality Assurance & Control 	<p>Management</p> <ul style="list-style-type: none"> *People, Organization and Culture *Managing Research Projects 	Dissertation
52	Psychology	<ul style="list-style-type: none"> *Research skills *Advance Statistics (e.g. path analysis, meta-analysis, linear and non-linear regression) *Qualitative Research Methods (e.g. Grounded theory, discourse analysis) *Practical Issues in Psychological Research (e.g. working with children, RCTs) *Advanced General Methods in Psychology (e.g. experience sampling, eye-tracking) 	<ul style="list-style-type: none"> *Learning, Training and Development *Work Design, Organizational Change and Development *Statistical Methods for Occupational Psychologists *Research Methods for Occupational Psychologists *Mind and Body 	Dissertation
53	Safety Science (Specialization)	<ul style="list-style-type: none"> *Introduction to Environmental Science *Descriptive Statistics *Physical Principles of Safety *Safety Risk Management *Occupational Health and Safety 	<ul style="list-style-type: none"> *SHE Risks *Principles of Ergonomics *Assessment of Workplace Environment *SSHE Laws 	Dissertation
54	Security Management & Operations	<ul style="list-style-type: none"> *Principles and Theories of Security Management *Framework of Corporate Security *Critical Infrastructure Analysis and Strategies *Emergency Preparedness and Management *Fundamentals Of Management 	<ul style="list-style-type: none"> *Security Management Concepts *Cyber-Security and Information Protection *Security Programs Evaluation *Vulnerability Assessment and Risk Analysis 	<ul style="list-style-type: none"> *Homeland Security Principles and Practices (Optional) *Terrorism and Homeland Defense Fundamentals (Optional) <p>Dissertation</p>
55	Social Entrepreneurship	<ul style="list-style-type: none"> *Foundations of Research *Identifying Social Entrepreneurship Opportunities *Planning for Social Innovation *Customer Care Professional * Project Scope and Quality Management *Sociology of Institutions and Organizations 	<ul style="list-style-type: none"> *Law for Social Work Practice *Social Business Models *The Impact of Social Enterprise *Funding for Social Enterprise * Project Cost, Risk and Benefits Management 	Dissertation
56	Social Work	<ul style="list-style-type: none"> *Foundations of Research *Safeguarding Children, Adults and their Families *Social Work Interventions with Vulnerable Adults, Families, Children and Young People *Introduction to Social Work *Customer Care Professional <p>Term Paper: This provides an</p>	<ul style="list-style-type: none"> *Law for Social Work Practice *The Life Course and Social Relationships *Practice Learning and Professional Development *Social, Political and Organizational Context for Social Work Practice 	<p>Hands-on experiences:</p> <ul style="list-style-type: none"> *10 working days of professional skills development; *100-day placement <p>Dissertation</p>

		opportunity for you to undertake in-depth study on a social work-related topic or aspect of practice.		
57	Sustainable Development	<ul style="list-style-type: none"> *Trans-disciplinary Methods for Sustainability Science *Perspectives on Sustainable Development *Project Design and Grantsmanship *Statistical Modeling *Introduction to Energy Policy and Sustainability *Themes in Climate Change 	<ul style="list-style-type: none"> *Nature, Health and Wellbeing *Environmental Science and Population Health *Global Policy Challenges *Environmental Knowledge *Governing Sustainability 	<ul style="list-style-type: none"> *Environmental Impacts Assessment (Optional) *Health, Safety & Environment (Optional) <p>Dissertation</p>
58	Sustainable Tourism Management	<ul style="list-style-type: none"> *Managing Visitor Attractions (The development and redevelopment of cultural and heritage attractions- Sustainable heritage management) *Business Strategy & Finance *Tourism Planning & Development *The Tourism & Hospitality Industries *Destinations (Contexts for Tourism & Hospitality) *Air Transport & Tourism (Optional) *Sport Tourism (Optional) *Tourism & the Media (Optional) <p>Term Paper on Conference Tourism: Here, you will reflect on the conference sector's growth, and examine its present state by identifying the size, value, trends and growth of major conference destinations throughout the world. You will also suggest how destinations and venues can develop a better conference product.</p>	<ul style="list-style-type: none"> *Crisis & Disaster Management *Design for Tourism & Hospitality (design of tangible and intangible objects or 'things' such as buildings (exteriors and interiors), maps and guides, souvenirs, live events, corporate identities, business processes, and servicescapes. *Tourism sustainability and climate change *Food Design & Marketing *Global Food & Drink (Optional) *Tourism Culture & Society (Optional) *Tourism Management & the Natural Environment (Optional) 	<p>Note: Optional work placement: This is intended to foster personal and professional development for a connection between academic learning and the working world. How will management theories be used for industry improvement? The transferable skills developed will improve your performance in your future career, both as employee and manager.</p> <p>Dissertation</p>
59	Tourism & Hospitality Management	<ul style="list-style-type: none"> *Critical Perspectives in Tourism Management *Customer Care Professional *Managing Resources in Hospitality and Tourism *Spares and Materials Management *Contemporary Issues in Cruise Management (Optional) *Travel and Visual Culture Consultancy (Optional) *Fundamentals of asset management 	<ul style="list-style-type: none"> *Turnaround Management *Preventive, Predictive, Reactive and Proactive Maintenance *Asset Management & Maintenance Strategies *International Hospitality Development *Human Resource Strategy in Multi Unit Service Organizations 	<ul style="list-style-type: none"> *Operations Globalization, Society and Culture *Ethical and Social Responsibility: Theory and Application (Optional) <p>Dissertation</p>

Note: These subject combinations may be varied anytime, at the discretion of the University, as changes demand

Dissertation: This is an opportunity to study a subject in-depth, showing that the student properly understands it, after adequate teachings about research methods. The dissertation, which will be 15,000 words (or more), is a conclusion of the learning experience, where the student will carry out a research project, using an appropriate research methodology to collect and analyze data and present the findings.