



**UNIVERSITY OF
PLYMOUTH**

PROGRAMME QUALITY HANDBOOK 2018-19

FdSc Forensic Science

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1. Welcome and Introduction to Foundation Degree Forensic Science

Welcome to the Foundation Degree in Forensic Science. The College is delighted that you have chosen to study with us. We are sure you are going to have a great time here and will get a great deal from the programme. Forensic science is one of the most fascinating areas of applied science - the use of scientific procedures to produce evidence in a court of law. This programme provides knowledge and skills appropriate to an increasingly important area of science. It covers the major scientific disciplines involved in the investigation of crime.

As part of the course you will use modern forensic science equipment in the laboratories and in the crime scene house. Visiting forensic practitioners will provide up-to-date information together with visits and a chance of work experience.

This programme has been designed to equip you with the skills and knowledge base required to work in your chosen specialism or other graduate opportunities. It is also a platform from which you can undertake additional vocational and academic qualifications.

This Programme Quality handbook contains important information including:
The approved programme specification
Module records

Note: The information in this handbook should be read in conjunction with the current edition of:

- Your Programme Institution & University Student Handbook which contains student support based information on issues such as finance and studying at HE
 - o available at
http://hemoodle.cityplym.ac.uk/pluginfile.php/215854/mod_resource/content/1/PU%20Handbook%201415.pdf
- Your Module, Teaching, Learning and Assessment Guide
- University of Plymouth's Student Handbook
 - o available at:
<https://www.plymouth.ac.uk/your-university/governance/student-handbook>

1. Programme Specification

Awarding Institution: University of Plymouth
Teaching Institution: City College, Plymouth
Final Award: FdSc
Intermediate Awards: Certificate of Higher Education (CertHE)
Programme Title: Forensic Science

UCAS Code: F411
Foundation Degree Qualification Benchmark (FDQB): Foundation Degree Qualification Benchmark.
 Informed by subject benchmarks in Chemistry, Biology, Law
Date Produced: March 2006

Admissions Criteria:

Qualification(s) Required for Entry to the FdA or FdSc	Comments
Candidates must have:	
GCSEs required at Grade C and above	Double Science , Mathematics and English.

Plus at least one of the following:

A Levels required: AS/A2/UCAS Points Tariff	48 UCAS points. At least one science 'A' level
BTEC National Certificate/Diploma	Pass minimum
HNC/D	Science. Pass minimum
VDA: AGNVQ, AVCE, AVS	Science. Grade E minimum
Access to HE	Science. Pass
International Baccalaureate	Pass
Irish/Scottish Highers/Advanced Highers	Science. Pass minimum
Work Experience	<i>Laboratory work an advantage.</i>
Other non-standard awards or experiences	NVQ level 3 , Laboratory and Technical Activities
APEL/APCL possibilities	See Academic regulations: http://www.plymouth.ac.uk/pages/view.asp?page=11219
Interview/portfolio requirements	No interview required

Criminal Record Bureau (CRB) check required	Advisable
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Aims of the Programme

This Programme is intended to:

1. Appropriate knowledge and technical skills in Chemistry, Biology and laboratory instrumentation as applied to Forensic Science.
2. Appropriate knowledge and technical skills in Biological, physical and chemical science relevant to the legal justice system.
3. Knowledge and understanding of the legal and criminal justice systems and methods used to analyse crime.
4. Appropriate knowledge and skills in Mathematical and statistical techniques used in scientific forensic investigation.
5. Appropriate knowledge and skills in developing research and reporting techniques.
6. Preparation for employment as a Forensic Practitioner and for progression onto honour degree programmes.

Programme Learning Outcomes:

1. By the end of the programme the student will be able to:
2. Analyse, evaluate and demonstrate the value of Forensic Science evidence.
3. Demonstrate the necessary knowledge and technical skills in Biological, physical and chemical science to support the legal justice system.
4. Demonstrate the knowledge, skills and attributes necessary to function effectively and efficiently as a member of a Forensic Science team exhibiting a wide range of skills and competences associated with a Forensic Science Practitioner.
5. Demonstrate a capacity of logical thinking and the ability to make and defend judgements.

Forensic science is one of the most fascinating areas of applied science - the use of scientific procedures to produce evidence in a court of law.

This programme provides knowledge and skills appropriate to an increasingly important area of science.

It covers the major scientific disciplines involved in the investigation of crime.

<p>A: Development of Knowledge and Understanding</p>	<p>Learning and Teaching Strategy/Method</p>
<ul style="list-style-type: none"> ● Chemistry, Biology and laboratory instrumentation as applied to Forensic Science. ● Biological, physical and chemical science to support the legal justice system. ● Knowledge and understanding of the legal and criminal justice systems ● Methods used to analyse specific crimes of particular relevance to society. ● Mathematical and statistical techniques used in scientific investigation. ● Developing research and reporting techniques. ● Preparing for employment as a Forensic Practitioner. ● Preparing for progression onto higher degree level programmes. 	<p>Primary</p> <ul style="list-style-type: none"> ● Lectures and tutorials ● Laboratory work ● Directed independent study ● Learning from work experience <p>Secondary</p> <ul style="list-style-type: none"> ● Case studies ● Problem-solving exercises ● Problem-based learning
<p>NB: Benchmark References</p>	<p>Assessment</p> <ul style="list-style-type: none"> ● Key knowledge and understanding is assessed via a combination of examinations, essays, laboratory reports, presentations and seminar performances.
<p>B: Cognitive and Intellectual Skills</p>	<p>Learning and Teaching Strategy/Method</p>
<ul style="list-style-type: none"> ● Critiques of psychological and scientific theories and frameworks. ● Abstract analysis and synthesis ● Intelligent application of legal principles in practice ● Problem solving and research skills 	<p>Primary</p> <ul style="list-style-type: none"> ● Class exercises ● Tutorial/seminar discussions ● Feedback via coursework assessment process (essays etc.) <p>Secondary</p> <ul style="list-style-type: none"> ● Policy and practice analysis in simulations

	<ul style="list-style-type: none"> • Computer-based practical's on data and measurement problems
NB: Benchmark References	Assessment <ul style="list-style-type: none"> • Assessed discussions • Essays/projects/dissertations • Examinations/tests • Coursework/groupwork on practical application questions
C: Key Transferable Skills	Learning and Teaching Strategy/Method
<ul style="list-style-type: none"> • Literary and information processing • Laboratory Techniques • Self-management • Communication (oral, written, CIT) • Numeracy/quantitative skills (reflection etc.) 	Primary <ul style="list-style-type: none"> • Library and other research exercises • Group work awareness and practice • Laboratory practical work • Computer-based learning and assessment Secondary <ul style="list-style-type: none"> • Class and seminar interactions and feedback
NB: Benchmark References	Assessment <ul style="list-style-type: none"> • Coursework of all types • Examination preparation and completion • Assessed discussions • Group work assessments
D: Practical Skills	Learning and Teaching Strategy/Method
<ul style="list-style-type: none"> • Computer and information technology skills • Presentation and oral communication skills • Written communication • Vocational specifics 	<ul style="list-style-type: none"> • Laboratory work • Projects • Designated tasks • Lectures and tutorials • Learning from work

NB: Benchmark References	Assessment <ul style="list-style-type: none">• Laboratory work and scene of crime practice• Project work• Competence in a range of forensic and legal related communication techniques
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Progression Routes

The award of the Foundation Degree in Forensic Science provides guaranteed progression to the stage 2 of the BSc (Hons) in Chemistry at the University of Plymouth.

Alternatively you may be able to progress to Stage 3 of designated 'top-up' degrees at a number of UK Universities.

If you progress to the final stage of a University of Plymouth programme then your stage two marks (level 5 modules) will be taken into account in your final degree classification.

Your Programme Manager has the support of an Academic Liaison Person (ALP) with questions regarding to progression to programmes at the University of Plymouth.

Learning Outcomes Maps for Foundation Degree in Forensic Science at HE Levels 4 and 5

2. Foundation Degree Intended Learning Outcomes Map	Level 4		
Graduate Attributes and Skills	2	3	4
Core Programme Intended Learning Outcomes	Aim	Subject Benchmark	Related Core Modules
<p>Knowledge/ Understanding</p> <ul style="list-style-type: none"> knowledge of the underlying concepts and principles associated with their area(s) of study, and an ability to evaluate and interpret these within the context of that area of study or principles of their area(s) of study 	1,2,3,4,5 .	Chemistry Biology	FSFD109 FSFD118 FSFD112 FSFD113 FSFD111 FSFD114
<p>Cognitive / Intellectual Skills</p> <ul style="list-style-type: none"> an ability to present, evaluate, and interpret qualitative and quantitative data, to develop lines of argument and make sound judgements in accordance with basic theories and concepts of their subject(s) of study 	1,2,3,4,5 .	Chemistry Biology Foundation Degree	FSFD118 FSFD111 FSFD113 FSFD114
<p>Key / Transferable Skills</p> <ul style="list-style-type: none"> evaluate the appropriateness of different approaches to solving problems related to their area(s) of study and/or work communicate the results of their study/work accurately and reliably, and with 	1,2,3,4,5 .	Chemistry Biology Foundation Degree	FSFD113 FSFD111 FSFD114

structured and coherent arguments			
Practical Skills (subject specific) <ul style="list-style-type: none"> Laboratory skills and techniques Investigative skills 	1,2,3,5.	Chemistry Biology Foundation Degree	FSFD109 FSFD118 FSFD113 FSFD114
Employment-related skills <ul style="list-style-type: none"> undertake further training and develop new skills within a structured and managed environment qualities and transferable skills necessary for employment requiring the exercise of personal responsibility 	2,3,4,6,7 .	Chemistry Biology Foundation Degree	FSFD113 FSFD109 FSFD 110 FSFD 112 FSFD114

Foundation Degree Intended Learning Outcomes Map	Level 5		
	2	3	4
Graduate Attributes and Skills			
Core Programme Intended Learning Outcomes	Aim(s)	Subject Benchmark	Related Core Modules
<p>Knowledge/ Understanding</p> <ul style="list-style-type: none"> • knowledge and critical understanding of the well established principles of their area(s) of study, and the way in which those principles have developed • knowledge of the main methods of enquiry in their subject(s) • an understanding of the limits of their knowledge, and how this influences analyses and interpretations based on that knowledge. 	1,2,3,4,5.	Chemistry Biology Law	FSFD210 FSFD216 FSFD213 FSFD217 FSFD211
<p>Cognitive / Intellectual Skills</p> <ul style="list-style-type: none"> • ability to apply underlying concepts and principles outside the context in which they were first studied. 	1,2,3,4,5.	Chemistry Biology Law Foundation Degree	FSFD210 FSFD216 FSFD217 FSFD205
<p>Key / Transferable Skills</p> <ul style="list-style-type: none"> • ability to evaluate critically the appropriateness of different approaches to 	1,2,3,4,5.	Chemistry Biology Law	FSFD210 FSFD216 FSFD205

<p>solving problems in the field of study;</p> <ul style="list-style-type: none"> • use a range of established techniques to initiate and undertake critical analysis of information, and to propose solutions to problems arising from that analysis • effectively communicate information, arguments, and analysis, in a variety of forms, to specialist and non specialist audiences, and deploy key techniques of the discipline effectively 		Foundation Degree	
<p>Practical Skills</p> <ul style="list-style-type: none"> • Laboratory skills and techniques • Investigative skills 	1,2,3,5.	Chemistry Biology Foundation Degree	FSFD213 FSFD205
<p>Employment-related skills</p> <ul style="list-style-type: none"> • the application of subject principles in an employment context • undertake further training, develop existing skills and acquire new competencies that will enable them to assume significant responsibilities within organisations • qualities and transferable skills necessary for employment requiring the exercise of personal responsibility and decision making. 	2,3,4,5,6,7.	Chemistry Biology Law Foundation Degree	FSFD216 FSFD210 FSFD213 FSFD205

Programme Structure for the Foundation Degree in Forensic Science (full-time) 2018/19
Course code: UF3372

Year 1			
Module Code	Module Title	No. of Credits	Core / Optional
FSFD109	Inorganic & Physical Chemistry	20	Core
FSFD118	Organic Chemistry & Biochemistry	20	Core
FSFD112	Biological Forensic Science	20	Core
FSFD113	Chemical / Physical Forensic Science	20	Core
FSFD111	Numerical Methods	20	Core
FSFD114	Professional Practice	20	Core
Year 2			
Module Code	Module Title	No. of Credits	Core / Optional
FSFD210	Further Chemistry	20	Core
FSFD216	Further Forensic Science	20	Core
FSFD213	Analytical Chemistry	20	Core
FSFD211	Forensic Psychology	20	Core
FSFD217	The English Legal System and Criminal Justice	20	Core
FSFD205	Research Skills	20	Core

3. Module Records

SECTION A: DEFINITIVE MODULE RECORD. Proposed changes must be submitted via Faculty Quality Procedures for approval and issue of new module code

MODULE CODE: FSFD109	MODULE TITLE: INORGANIC & PHYSICAL CHEMISTRY
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CREDITS: 20	FHEQ LEVEL: 4	JACS CODE: F100
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PREREQUISITES: NONE	CO-REQUISITES: NONE	COMPENSATABLE: YES
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SHORT MODULE DESCRIPTOR: This module provides an introduction to fundamental theoretical concepts and practical skills in inorganic and physical chemistry that can be applied to Forensic Science. These include structure and bonding, chemical properties of the Periodic Table thermodynamics and reaction kinetics. It also provides training in fundamental practical techniques and good laboratory practice
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ELEMENTS OF ASSESSMENT					
WRITTEN EXAMINATION		COURSEWORK		PRACTICE	
E1 (Formally scheduled)		C1	70%	P1	
E2 (OSCE)		C2		P3	
T1 (in-class test)	30%	A1			

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Forensic Science

Professional body minimum pass mark requirement: N/A
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MODULE AIMS: To provide an understanding of the theoretical concepts that underpin degree-level inorganic and physical chemistry indicated in the short modular descriptor. To equip students with key laboratory skills through appropriate practical investigations
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ASSESSED LEARNING OUTCOMES: (additional guidance below) At the end of the module the learner will be expected to be able to: 1. Solve chemical problems where the necessary data and theory is collected or provided.

2. Perform manipulations of data using prescribed mathematical and graphical techniques.
3. Present information relating to fundamental chemical concepts in a logical and concise manner.
4. Complete laboratory reports concisely, in the correct style, and with appropriate treatment of experimental results, tables and graphs.

DATE OF APPROVAL: 12/06/2006	FACULTY/OFFICE:
DATE OF IMPLEMENTATION: Sept 2006	SCHOOL/PARTNER:
DATE(S) OF APPROVED CHANGE: 22/05/13	TERM: Autumn/Spring/Summer/other (please specify)

Additional notes (for office use only):

Additional Guidance for Learning Outcomes:

To ensure that the module is pitched at the right level check your intended learning outcomes against the following nationally agreed standards

- Framework for Higher Education Qualifications
<http://www.qaa.ac.uk/Publications/InformationAndGuidance/Documents/FHEQ08.pdf>
- Subject benchmark statements
<http://www.qaa.ac.uk/ASSURINGSTANDARDSANDQUALITY/SUBJECT-GUIDANCE/Pages/Subject-benchmark-statements.aspx>
- SEEC level descriptors <http://www.seec.org.uk/academic-credit/seec-credit-level-descriptors-2010> (scroll to pdf link at bottom of page)
- Professional, regulatory and statutory (PSRB) accreditation requirements (where necessary e.g. health and social care, medicine, engineering, psychology, architecture, teaching, law)
- QAA Quality Code <http://www.qaa.ac.uk/AssuringStandardsAndQuality/quality-code/Pages/default.aspx>

● SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. Some parts of this page may be used in the KIS return and published on the extranet as a guide for prospective students. Further details for current students should be provided in module guidance notes.

ACADEMIC YEAR: 2018/19	NATIONAL COST CENTRE: 113
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MODULE LEADER: Keith Ebdon	OTHER MODULE STAFF:
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Summary of Module Content

- Nuclear structure, isotopes and radioactivity.
- Electronic configuration and periodic classification of the elements.
- Ionic and covalent bonding including ionic bonding theory, molecular orbital theory, hydrogen bonding and metallic bonding.
- Periodic physical properties on the elements.
- The structure and properties of elements selected from s,p and d blocks of the periodic table.
- Properties of elements across a period of the periodic table.
- Important features of structural and chemical interest will be emphasised such as allotropy, acid/base behaviour, and redox properties.

SUMMARY OF TEACHING AND LEARNING		
Scheduled Activities	Hours	Comments/Additional Information
Lecture	30	
Tutorial	30	
Practical Classes and Workshops	30	
Independent Study	110	
Total	200	

Category	Element	Component Name	Component weighting	Comments Include links to learning objectives
Written exam	E			
	T	In class Test	30%	LO2 & LO3
Coursework	C	Lab reports	70%	LO1 & LO4

Recommended Texts and Sources

The recommended texts for the course are:

Brenner J C (2003) *Forensic Science Dictionary* CRC Press, London
Burton G (2000) *Chemistry storylines* Heinemann, Oxford
Eckert W G (1997) *Introduction to Forensic Sciences* CRC Press, London
Faust C B (2000) *Modern Chemical Techniques* RSC, London
Jackson. P, Jackson, R (2004) *Forensic Science* ,Pearson, New Jersey
Lewis R, Evans W (2006) *Chemistry* Palgrave Macmillan,. Basingstoke
White P (2003) *Crime Scene to Court* RSC, London

www.chemsoc.org

www.forensic.gov.uk

www.forensic-science-society.org.uk

www.chemdex.org

www.chemsoc.org

www.webelements.com

SECTION A: DEFINITIVE MODULE RECORD. Proposed changes must be submitted via Faculty Quality Procedures for approval and issue of new module code.

MODULE CODE: FSFD118	MODULE TITLE: ORGANIC & BIOCHEMISTRY
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CREDITS: 20	FHEQ LEVEL: 4	JACS CODE: C741
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PRE-REQUISITES: NONE	CO-REQUISITES: NONE	COMPENSATABLE: YES
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SHORT MODULE DESCRIPTOR: This module provides an introduction to fundamental theoretical concepts and practical skills in organic chemistry that can be applied to Forensic Science. These include structure and bonding, the reactions of organic compounds and mechanistic organic chemistry. It also provides training in fundamental practical techniques and good laboratory practice

ELEMENTS OF ASSESSMENT					
WRITTEN EXAMINATION		COURSEWORK		PRACTICE	
E1 (Formally scheduled)		C1	75%	P1	
E2 (OSCE)		C2		P3	
T1 (in-class test)	25%	A1			

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Forensic science

Professional body minimum pass mark requirement: N/A

MODULE AIMS:
To provide an understanding of the theoretical concepts that underpins degree-level organic chemistry. Equip students with key laboratory skills through appropriate practical investigations

ASSESSED LEARNING OUTCOMES: (additional guidance below)
At the end of the module the learner will be expected to be able to:
1. Describe and discuss the elementary aspects of organic chemistry.
2. Complete laboratory exercises and problems in technical reports.

DATE OF APPROVAL: 21/06/2006	FACULTY/OFFICE:
DATE OF IMPLEMENTATION: Sept 2006	SCHOOL/PARTNER:

DATE(S) OF APPROVED CHANGE: 22/05/13	TERM: Autumn/Spring/Summer/other (please specify)
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Additional notes (for office use only):

Additional Guidance for Learning Outcomes:

To ensure that the module is pitched at the right level check your intended learning outcomes against the following nationally agreed standards

- Framework for Higher Education Qualifications <http://www.qaa.ac.uk/Publications/InformationAndGuidance/Documents/FHEQ08.pdf>
- Subject benchmark statements <http://www.qaa.ac.uk/ASSURINGSTANDARDSANDQUALITY/SUBJECT-GUIDANCE/Pages/Subject-benchmark-statements.aspx>
- SEEC level descriptors <http://www.seec.org.uk/academic-credit/seec-credit-level-descriptors-2010> (scroll to pdf link at bottom of page)
- Professional, regulatory and statutory (PSRB) accreditation requirements (where necessary e.g. health and social care, medicine, engineering, psychology, architecture, teaching, law)
- QAA Quality Code <http://www.qaa.ac.uk/AssuringStandardsAndQuality/quality-code/Pages/default.aspx>

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. Some parts of this page may be used in the KIS return and published on the extranet as a guide for prospective students. Further details for current students should be provided in module guidance notes.

ACADEMIC YEAR: 2018/19	NATIONAL COST CENTRE: 113
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MODULE LEADER: Keith Ebdon	OTHER MODULE STAFF:
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<p>Summary of Module Content</p> <ul style="list-style-type: none"> Mechanistic basis of organic chemistry: nucleophilic, electrophilic and free radical reactions. Electronic and steric effects within molecules. Properties of organic compounds. Reaction of organic compounds: synthesis, interconversion of commonly occurring organic functional groups attached to carbon. Stereochemistry: chirality, enantiomers, optical activity, optical resolution, R/S and E/Z nomenclature.
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SUMMARY OF TEACHING AND LEARNING		
Scheduled Activities	Hours	Comments/Additional Information
Lecture	30	
Tutorial	30	
Workshops	30	
Independent Study	110	
Total	200	

Category	Element	Component Name	Component weighting	Comments Include links to learning objectives
Written exam	E_			
	T_	In Class Test	25%	LO1
Coursework	C_	Lab Reports	75%	LO2

Recommended Texts and Sources

The recommended texts for the course are:

Clayden, J et al.(2000) *Organic Chemistry* OUP, .Oxford
Lewis R, Evans W (2006) *Chemistry* Palgrave Macmillan,. Basingstoke
Stryer, L.(2002) *Biochemistry* W.H.Freeman, Basingstoke
Warren, S.(2001) *Organic chemistry manual* OUP. Oxford

www.chemsoc.org

www.liv.ac.uk/Chemistry

www.sheffcol.ac.uk/links

www.chemguide.co.uk

SECTION A: DEFINITIVE MODULE RECORD. Proposed changes must be submitted via Faculty Quality Procedures for approval and issue of new module code.

MODULE CODE: FSFD112	MODULE TITLE: BIOLOGICAL FORENSIC SCIENCE
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CREDITS: 20	FHEQ LEVEL: 4	JACS CODE:
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PREREQUISITES: NONE	CO-REQUISITES: NONE	COMPENSATABLE: YES
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SHORT MODULE DESCRIPTOR: This module develops the learning, knowledge and understanding of the biological science as applied to Forensic Science. It also explores the relationship of Forensic Science to criminal investigation, including how evidence is gathered, recorded, processes and reported.

ELEMENTS OF ASSESSMENT					
WRITTEN EXAMINATION		COURSEWORK		PRACTICE	
E1 (Formally scheduled)		C1	80%	P1	
E2 (OSCE)		C2		P3	
T1 (in-class test)	20%	A1			

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Forensic science

Professional body minimum pass mark requirement: n/a

MODULE AIMS:
To provide an understanding of the theoretical and practical concepts and techniques that underpin degree level Forensic Science indicated in the short modular descriptor.

ASSESSED LEARNING OUTCOMES: (additional guidance below)
At the end of the module the learner will be expected to be able to:

1. Assess methods of gathering and recording forensic evidence
2. Understand how biological evidence may be collected and evaluated.
3. Understand the biological principles behind the collection and processing of biological evidence.
4. Understand the relationship of Forensic Science to criminal investigation.

DATE OF APPROVAL: 12/06/2006	FACULTY/OFFICE:
DATE OF IMPLEMENTATION: Sept 2006	SCHOOL/PARTNER:

DATE(S) OF APPROVED CHANGE: 22/05/13	TERM: Autumn/Spring/Summer/other (please specify)
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Additional notes (for office use only):

Additional Guidance for Learning Outcomes:

To ensure that the module is pitched at the right level check your intended learning outcomes against the following nationally agreed standards

- Framework for Higher Education Qualifications
<http://www.qaa.ac.uk/Publications/InformationAndGuidance/Documents/FHEQ08.pdf>
- Subject benchmark statements
<http://www.qaa.ac.uk/ASSURINGSTANDARDSANDQUALITY/SUBJECT-GUIDANCE/Pages/Subject-benchmark-statements.aspx>
- SEEC level descriptors <http://www.seec.org.uk/academic-credit/seec-credit-level-descriptors-2010> (scroll to pdf link at bottom of page)
- Professional, regulatory and statutory (PSRB) accreditation requirements (where necessary e.g. health and social care, medicine, engineering, psychology, architecture, teaching, law)
- QAA Quality Code <http://www.qaa.ac.uk/AssuringStandardsAndQuality/quality-code/Pages/default.aspx>

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. Some parts of this page may be used in the KIS return and published on the extranet as a guide for prospective students. Further details for current students should be provided in module guidance notes.

ACADEMIC YEAR: 2018/19	NATIONAL COST CENTRE:
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MODULE LEADER: Roxanna Melvin	OTHER MODULE STAFF:
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Summary of Module Content

- Study of cells and tissues and the role of the microscope in their examination. Use of the microscope as a tool in forensic examination, to include examination of animal and human remains. Measurement using the microscope.
- Biological aspects of toxicology. Identification of Body fluids.
- Fingerprint analysis.
- Forensic Entomology,
- An introduction to the use of DNA analysis

SUMMARY OF TEACHING AND LEARNING

Scheduled Activities	Hours	Comments/Additional Information
Lectures	30	
Seminars	30	
Independent Study	140	
Total	200	

Category	Element	Component Name	Component weighting	Comments Include links to learning objectives
Written exam	E_			
	T_	In class test	20%	LO4
Coursework	C_	Portfolio of evidence	80%	LO1. LO2, LO3
Practice	P_			

Updated by: Roxanna Melvin Date: Sept 2018	Approved by: R Feaviour Date: Sept 2018
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The recommended texts for the course are:

- Brenner J C (2003) *Forensic Science Dictionary* CRC Press, London
- Champod, C. et al.(2004) *Fingerprints and other ridge skin impressions*. Taylor and Francis.London
- Eckert W G (1997) *Introduction to Forensic Sciences* CRC Press, London
- Greenberg, B and Kunich, J.C.(2005) *Entomology and the law : flies as forensic indicators..* CUP, Cambridge
- Jackson. P, Jackson, R (2004) *Forensic Science* ,Pearson,New Jersey
- Krawczak, M., *DNA Fingerprinting*. 2000. 2nd ed. BIOS scientific publishers.
- Kubic, T. and Petraco, N.(2002) *Forensic Science: scientific and investigative techniques, laboratory experiment manual and manual.,* Fl.: CRC Press, Boca Raton
- Cox, M and Nelson, D., (2004) *Lehninger principles of biochemistry* Palgrave Macmillan, Basingstoke
- Lodish, H. and Darnell, J. (2003) *Molecular cell biology.:* W.H. Freeman & co ltd, New York
- Petraco, N. and Kubic, T.(2005) *Forensic Science laboratory manual*. CRC Press Boca Raton, Fl.:
- White P(2003) *Crime Scene to Court* RSC, London

www.chemsoc.org

www.forensic.gov.uk

www.forensic-science-society.org.uk

www.iop.org

SECTION A: DEFINITIVE MODULE RECORD. Proposed changes must be submitted via Faculty Quality Procedures for approval and issue of new module code.

MODULE CODE: FSFD113	MODULE TITLE Chemical/Physical Forensic Science
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CREDITS: 20	FHEQ LEVEL:4	JACS CODE: F410
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PRE-REQUISITES: None	CO-REQUISITES: None	COMPENSATABLE: Yes
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SHORT MODULE DESCRIPTOR: (max 425 characters)

This module develops the learning knowledge and understanding of the chemical and physical science as applied to Forensic Science. It also explores the relationship of Forensic Science to criminal investigation including how evidence is gathered, recorded, processed and reported.

ELEMENTS OF ASSESSMENT [Use HESA KIS definitions]

WRITTEN EXAMINATION		COURSEWORK		PRACTICE	
E1 (Formally scheduled)		C1	60%	P1	40%
E2 (OSCE)		C2		P3	
T1 (in-class test)		A1			

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Forensic Science

Professional body minimum pass mark requirement:

MODULE AIMS:

To provide an understanding through, lectures, tutorials and laboratory sessions of the theoretical and practical concepts and techniques that underpin degree level Forensic Science indicated in the short modular descriptor.

ASSESSED LEARNING OUTCOMES: (additional guidance below)

At the end of the module the learner will be expected to be able to:

1. Assess methods of gathering and recording forensic evidence.
2. Investigate the chemistry and physics of materials and related processes that will aid analysis of forensic evidence.
3. Understand the relationship of Forensic Science to criminal investigation.

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DATE OF APPROVAL: 12/06/06	Academic Partnerships
DATE OF IMPLEMENTATION: September 2006	City College Plymouth
DATE(S) OF APPROVED CHANGE: 10/06/14	TERM: Autumn

Additional notes (for office use only):

Additional Guidance for Learning Outcomes:

To ensure that the module is pitched at the right level check your intended learning outcomes against the following nationally agreed standards

- Framework for Higher Education Qualifications
<http://www.qaa.ac.uk/Publications/InformationAndGuidance/Documents/FHEQ08.pdf>
- Subject benchmark statements
<http://www.qaa.ac.uk/ASSURINGSTANDARDSANDQUALITY/SUBJECT-GUIDANCE/Pages/Subject-benchmark-statements.aspx>
- SEEC level descriptors <http://www.seec.org.uk/academic-credit/seec-credit-level-descriptors-2010> (scroll to pdf link at bottom of page)
- Professional, regulatory and statutory (PSRB) accreditation requirements (where necessary e.g. health and social care, medicine, engineering, psychology, architecture, teaching, law)
- QAA Quality Code <http://www.qaa.ac.uk/AssuringStandardsAndQuality/quality-code/Pages/default.aspx>

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

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ACADEMIC YEAR: 2018/19	NATIONAL COST CENTRE: 112
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MODULE LEADER: Keith Ebdon	OTHER MODULE STAFF:
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Summary of Module Content

- Role of Forensic Science in the investigation of crime in England and Wales.
- Organisation and management of a crime scene.
- Laboratory examination of physical evidence such as fibres, glass, soil, inks, dyes, fire accelerants, paint and metal fragments using a variety of laboratory instruments.
- Visualisation of marks and impressions including fingerprints.

SUMMARY OF TEACHING AND LEARNING <i>[Use HESA KIS definitions]</i>		
Scheduled Activities	Hours	Comments/Additional Information
lectures	30	
practical	30	
Self study	140	
Total	200	

Category	Element	Component Name	Component weighting	Comments Include links to learning objectives
Written exam	E_			
	T_			
Coursework	C1	Report	15%	LO1
	C2	Portfolio of written work	45%	LO2 & LO3
		Total	=60%	
Practice	P1	Report	40%	LO1

Updated by: Keith Ebdon Date: Sept 2018	Approved by: R Feaviour Date: Sept 18
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SECTION A: DEFINITIVE MODULE RECORD. Proposed changes must be submitted via Faculty Quality Procedures for approval and issue of new module code.

MODULE CODE: FSFD111	MODULE TITLE: NUMERICAL METHODS
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CREDITS: 20	FHEQ LEVEL: 4	JACS CODE: G140
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PRE-REQUISITES: NONE	CO-REQUISITES: NONE	COMPENSATABLE: YES
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SHORT MODULE DESCRIPTOR:
An understanding of the concepts of mathematics and statistics and the ability to apply them. The module will help students acquire an understanding of the principles and tools they need in the application of Forensic Science

ELEMENTS OF ASSESSMENT					
WRITTEN EXAMINATION		COURSEWORK		PRACTICE	
E1 (Formally scheduled)		C1	50%	P1	
E2 (OSCE)		C2		P3	
T1 (in-class test)	50%	A1			

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Forensic science

Professional body minimum pass mark requirement: N/A

MODULE AIMS:
The module aims to provide students with knowledge of a range of mathematical techniques and their application to a variety of problems in science.

ASSESSED LEARNING OUTCOMES: (additional guidance below)
At the end of the module the learner will be expected to be able to:

1. Understand and manipulate quantities, functions and mathematical operations which are needed on the foundation degree course.
2. Understand generation of data through sampling.
3. Analyse, summarise and handle data.

DATE OF APPROVAL:12/06/ 2006	FACULTY/OFFICE:
DATE OF IMPLEMENTATION: Sept 2006	SCHOOL/PARTNER:

DATE(S) OF APPROVED CHANGE: 22/05/13	TERM: Autumn/Spring/Summer/other (please specify)
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Additional notes (for office use only):

Additional Guidance for Learning Outcomes:

To ensure that the module is pitched at the right level check your intended learning outcomes against the following nationally agreed standards

- Framework for Higher Education Qualifications
<http://www.qaa.ac.uk/Publications/InformationAndGuidance/Documents/FHEQ08.pdf>
- Subject benchmark statements
<http://www.qaa.ac.uk/ASSURINGSTANDARDSANDQUALITY/SUBJECT-GUIDANCE/Pages/Subject-benchmark-statements.aspx>
- SEEC level descriptors <http://www.seec.org.uk/academic-credit/seec-credit-level-descriptors-2010> (scroll to pdf link at bottom of page)
- Professional, regulatory and statutory (PSRB) accreditation requirements (where necessary e.g. health and social care, medicine, engineering, psychology, architecture, teaching, law)
- QAA Quality Code <http://www.qaa.ac.uk/AssuringStandardsAndQuality/quality-code/Pages/default.aspx>

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

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ACADEMIC YEAR: 2018/19	NATIONAL COST CENTRE: 122
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MODULE LEADER: Kaarina Rose	OTHER MODULE STAFF:
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Summary of Module Content

- Fundamentals: numbers and inequalities, manipulations of formulae, indices, units, dimensional analysis.
- Functions & graphs: straight lines, quadratic and cubic polynomials, properties and use in modelling. Graphs. Exponential functions, logarithms, trigonometric functions.
- Differentiation: rate of change, differentiation as a limiting process, differentiation of elementary functions.;
- Integration: the definite integral, Integration as a area. Integration of elementary functions using tables. Numerical integration.
- Statistics: descriptive statistics including mean, median and standard deviation. Comparison of data sets using numerical and graphical summaries. The Normal distribution and the concepts of hypothesis testing with applications to forensic experimentation. definition and presentation of errors in measurement. Correlation coefficient and calculation of lines of best fit using least squares

SUMMARY OF TEACHING AND LEARNING

Scheduled Activities	Hours	Comments/Additional Information
Lecture	30	
Seminar	30	
Independent Study	140	
Total	200	

Category	Element	Component Name	Component weighting	Comments Include links to learning objectives
Written exam	E			
	T	In Class Test	50%	LO1
Coursework	C	Written Report	50%	LO2 & LO3
Practice	P			

The recommended texts for the course are:

- Aitken, C. and Taroni, F. (2004) *Statistics and the evaluation of evidence for forensic scientists*. 2nd ed. Wiley Chichester,
- Bourg, D.M. (2006) *Excel scientific and engineering cookbook* O'Reilly, Sebastopol,
- Cadogan, A. (2000) *Maths for advanced biology* Nelson Thornes, Cheltenham..
- Cann, A. J. (2003) *Maths from scratch for biologists* Wiley. Chichester,
- Davies, G (1998) *Mathematics for scientific and technical students* Harlow, Addison-Wesley
- Hinton, P.R. (2004) *Statistics explained* 2nd ed, Routledge, London
- Mackenzie, J.D. (2004) *Student guide to minitab* Addison- Wesley, London
- Taylor, M. (2000) *Maths for advanced chemistry* Cheltenham, Nelson Thornes
- Tebbutt, P. (1998) *Basic maths for chemists* 2nd ed. Chichester, Wiley
- Yates, P. (2005) *Chemical calculations at a glance*. Oxford, Blackwell.

SECTION A: DEFINITIVE MODULE RECORD. Proposed changes must be submitted via Faculty Quality Procedures for approval and issue of new module code.

MODULE CODE: FSFD114	MODULE TITLE Professional Practice
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CREDITS: 20	FHEQ LEVEL:4	JACS CODE: X900
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PRE-REQUISITES: None	CO-REQUISITES: None	COMPENSATABLE: Yes
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SHORT MODULE DESCRIPTOR:
This module is designed to enable students to demonstrate that they have the qualities and transferable skills necessary for relevant employment requiring the exercise of responsibility and decision making, including the ability to relate their professional practice to underlying theory and principles.

ELEMENTS OF ASSESSMENT					
WRITTEN EXAMINATION		COURSEWORK		PRACTICE	
E1 (Formally scheduled)		C1	90%	P1	10%
E2 (OSCE)		C2		P3	
T1 (in-class test)		A1			

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Forensic Science

Professional body minimum pass mark requirement: N/A

- MODULE AIMS:
- To enable students to develop a comprehensive portfolio of evidence that supports their career development and practice.
 - To enable students to demonstrate an approach to their practice that is informed by up to date and relevant theoretical perspectives.
 - To support students in developing as autonomous learners at HE level.

ASSESSED LEARNING OUTCOMES: (additional guidance below)
At the end of the module the learner will be expected to be able to:

- 1) Demonstrate how relevant theoretical perspectives have informed and enhanced work related practice
- 2) Demonstrate an ability to identify, locate, analyse and use information in the area(s) of study
- 3) Evaluate own strengths and weaknesses, and areas requiring further development, as part of the continuing Personal Development Plan (PDP)

4) Demonstrate the ability to work independently and in a team and to be able to communicate in styles appropriate for a variety of professional purposes and audiences

DATE OF APPROVAL: 12/06/ 2006	Academic Partnerships
DATE OF IMPLEMENTATION: Sept 2006	City College Plymouth
DATE(S) OF APPROVED CHANGE: 10/06/14	TERM: Autumn

Additional notes (for office use only):

Additional Guidance for Learning Outcomes:

To ensure that the module is pitched at the right level check your intended learning outcomes against the following nationally agreed standards

- Framework for Higher Education Qualifications <http://www.qaa.ac.uk/Publications/InformationAndGuidance/Documents/FHEQ08.pdf>
- Subject benchmark statements <http://www.qaa.ac.uk/ASSURINGSTANDARDSANDQUALITY/SUBJECT-GUIDANCE/Pages/Subject-benchmark-statements.aspx>
- SEEC level descriptors <http://www.seec.org.uk/academic-credit/seec-credit-level-descriptors-2010> (scroll to pdf link at bottom of page)
- Professional, regulatory and statutory (PSRB) accreditation requirements (where necessary e.g. health and social care, medicine, engineering, psychology, architecture, teaching, law)
- QAA Quality Code <http://www.qaa.ac.uk/AssuringStandardsAndQuality/quality-code/Pages/default.aspx>

● SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

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ACADEMIC YEAR: 2018/19	NATIONAL COST CENTRE: 999
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MODULE LEADER: Keith Ebdon	OTHER MODULE STAFF:
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<p>Summary of Module Content</p> <p>Through a series of tutorials, and specialist referral if necessary, students will be introduced to:</p> <ul style="list-style-type: none"> ● Academic literacy and research conventions in their chosen field; ● The requirements of professional practice/frameworks; ● Informed reflection, self evaluation and personal action planning; ● Relevant ICT competences to support academic and professional practice; ● Information Literacy, including search strategies, identification and critical selection of quality, scholarly information; ● Transferable skills and attributes

SUMMARY OF TEACHING AND LEARNING		
Scheduled Activities	Hours	Comments/Additional Information
lectures	30	
practical	30	
Self study	140	
Total	200	

Category	Element	Component Name	Component weighting	Comments Include links to learning objectives
Written exam	E			
	T			
Coursework	C	C1 - Portfolio	70%	LO,1 LO2, LO4
		C2 - CV and Action Plan	20%	LO3
		Total =	90%	
Practice	P	P1 - Portfolio	10%	LO4

Updated by: Keith Ebdon
Date: September 2018

Approved by: R Feaviour
Date: September 2018

SECTION A: DEFINITIVE MODULE RECORD. Proposed changes must be submitted via Faculty Quality Procedures for approval and issue of new module code.

MODULE CODE:
FSFD210

MODULE TITLE:
FURTHER CHEMISTRY

CREDITS: 20

FHEQ LEVEL: 5

JACS CODE: F100

PRE-REQUISITES: FSFD
100 , FSFD101

CO-REQUISITES:
NONE

COMPENSATABLE: YES

SHORT MODULE DESCRIPTOR:

This module builds on the fundamental theoretical concepts and practical skills in inorganic, physical and organic chemistry that were covered at level 4. It also provides further training in practical techniques and good laboratory practice.

ELEMENTS OF ASSESSMENT

WRITTEN EXAMINATION		COURSEWORK		PRACTICE	
E1 (Formally scheduled)		C1	80%	P1	
E2 (OSCE)		C2		P3	
T1 (in-class test)	20%	A1			

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Forensic science

Professional body minimum pass mark requirement: N/A

MODULE AIMS:

To provide a more advanced understanding of the theoretical concepts that underpin level 1 degree level chemistry modules. To equip students with key laboratory skills through appropriate practical investigation

ASSESSED LEARNING OUTCOMES: (additional guidance below)

At the end of the module the learner will be expected to be able to:

1. Solve chemical problems using existing data and theories.
2. Perform advanced manipulations of data using prescribed mathematical and graphical techniques.

3. Present information relating to advanced chemical concepts in a logical and concise manner.
4. Complete advanced laboratory reports with appropriate treatment of experimental results, tables and graphs.

DATE OF APPROVAL: 12/06/2006	FACULTY/OFFICE:
DATE OF IMPLEMENTATION: Sept 2006	SCHOOL/PARTNER:
DATE(S) OF APPROVED CHANGE: 22/05/13	TERM: Autumn/Spring/Summer/other (please specify)

Additional notes (for office use only)

Additional Guidance for Learning Outcomes:

To ensure that the module is pitched at the right level check your intended learning outcomes against the following nationally agreed standards

- Framework for Higher Education Qualifications
<http://www.qaa.ac.uk/Publications/InformationAndGuidance/Documents/FHEQ08.pdf>
- Subject benchmark statements
<http://www.qaa.ac.uk/ASSURINGSTANDARDSANDQUALITY/SUBJECT-GUIDANCE/Pages/Subject-benchmark-statements.aspx>
- SEEC level descriptors <http://www.seec.org.uk/academic-credit/seec-credit-level-descriptors-2010> (scroll to pdf link at bottom of page)
- Professional, regulatory and statutory (PSRB) accreditation requirements (where necessary e.g. health and social care, medicine, engineering, psychology, architecture, teaching, law)
- QAA Quality Code <http://www.qaa.ac.uk/AssuringStandardsAndQuality/quality-code/Pages/default.aspx>

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

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ACADEMIC YEAR: 2018/19	NATIONAL COST CENTRE: 113
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MODULE LEADER: Keith Ebdon	OTHER MODULE STAFF:
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Summary of Module Content

- The first row transition elements, trends in physical and chemical properties related to electronic structure. Solution chemistry involving acid/base, redox behaviour, complex formation and stability including stereoisomerism of metal complexes. Nuclear instability. Fission and fusion. Radioactivity. Molecular orbital theory. Concept of hybridisation and sp hybridisation of carbon. The Nernst Equation. Standard electrode potentials, solubility products. Empirical analysis of reaction rates to give reaction order. Activation Energy. Homogeneous and heterogeneous catalysts. Chemical equilibrium.
- Further treatment of thermodynamics.
- Organic chemistry functional groups and interconversion of functional groups including reaction mechanisms.

SUMMARY OF TEACHING AND LEARNING

Scheduled Activities	Hours	Comments/Additional Information
Lectures	30	
Workshop	30	
Independent Study	140	
Total	200	

Category	Element	Component Name	Component weighting	Comments Include links to learning objectives
Written exam	E			
	T	In Class Test	20%	LO1 & LO3
Coursework	C	Lab Reports	80%	LO2 & LO4
Practice	P			

The recommended texts for the course are:

The recommended texts and sources for the course are:

Burton G (2000) *Chemistry storylines* Heinemann, Oxford
Lewis R, Evans W (2006) *Chemistry* Palgrave Macmillan,. Basingstoke
Holum,J (1998) *Fundamentals of general, organic and biological chemistry.*

www.chemsoc.org

www.liv.ac.uk/Chemistry

www.sheffcol.ac.uk/links

www.bio.org

www.biochem.org

www.rsc.org

SECTION A: DEFINITIVE MODULE RECORD. Proposed changes must be submitted via Faculty Quality Procedures for approval and issue of new module code.

MODULE CODE: FSFD216	MODULE TITLE Further Forensic Science
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CREDITS: 20	FHEQ LEVEL:5	JACS CODE: F410
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PRE-REQUISITES: None	CO-REQUISITES: None	COMPENSATABLE: Yes
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SHORT MODULE DESCRIPTOR:
This module extends the learning knowledge and understanding of the chemical, physical and biological science as applied to Forensic Science. It also explores the role of the forensic scientist as an 'expert witness'.

ELEMENTS OF ASSESSMENT [Use HESA KIS definitions]					
WRITTEN EXAMINATION		COURSEWORK		PRACTICE	
E1 (Formally scheduled)		C1	80%	P1	20%
E2 (OSCE)		C2		P3	
T1 (in-class test)		A1			

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Forensic Science

Professional body minimum pass mark requirement:

MODULE AIMS:
To provide an understanding of the theoretical and practical concepts and techniques that underpin degree level Forensic Science indicated in the short modular descriptor.

ASSESSED LEARNING OUTCOMES: (additional guidance below)
At the end of the module the learner will be expected to be able to:

1. Investigate and evaluate the identification of poisons and drugs that will aid qualitative and quantitative analysis of forensic evidence.
2. Evaluate the physiological effects of poisons and drugs.
3. Investigate the use of ballistics as an aid to forensic investigation.
4. Investigate serology and DNA techniques as applied to Forensic Science.
5. Further analysis of forensic samples using instrumental analysis.

DATE OF APPROVAL: May 2006	Academic Partnerships
DATE OF IMPLEMENTATION: Sept 2017	City College Plymouth
DATE(S) OF APPROVED CHANGE: Jan 2016	TERM: Autumn

Additional notes (for office use only):

Additional Guidance for Learning Outcomes:

To ensure that the module is pitched at the right level check your intended learning outcomes against the following nationally agreed standards

- Framework for Higher Education Qualifications
<http://www.qaa.ac.uk/Publications/InformationAndGuidance/Documents/FHEQ08.pdf>
- Subject benchmark statements
<http://www.qaa.ac.uk/ASSURINGSTANDARDSANDQUALITY/SUBJECT-GUIDANCE/Pages/Subject-benchmark-statements.aspx>
- SEEC level descriptors <http://www.seec.org.uk/academic-credit/seec-credit-level-descriptors-2010> (scroll to pdf link at bottom of page)
- Professional, regulatory and statutory (PSRB) accreditation requirements (where necessary e.g. health and social care, medicine, engineering, psychology, architecture, teaching, law)
- QAA Quality Code <http://www.qaa.ac.uk/AssuringStandardsAndQuality/quality-code/Pages/default.aspx>

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

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ACADEMIC YEAR: 2018/19	NATIONAL COST CENTRE: 112
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MODULE LEADER: Keith Ebdon	OTHER MODULE STAFF: Roxanna Melvin
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Summary of Module Content

- Classes of poisons and drugs to include presumptive tests and quantitative chemical analysis.
- Physiological effects of poisons and drugs and possible antidotes.
- Ballistics to include types of firearms, cartridges, projectiles and gunshot residues.
- Blood grouping tests and DNA 'fingerprinting' techniques.
- The role and skills of a forensic scientist as an 'expert witness'.

SUMMARY OF TEACHING AND LEARNING

Scheduled Activities	Hours	Comments/Additional Information
Lectures	30	
Practicals	30	
Self study	140	
Total	200	

Category	Element	Component Name	Component weighting	Comments Include links to learning objectives
Written exam	E			
	T			
Coursework	C1	Summative report on chemical/ physical and Biological aspects	40%	LO1, LO3, LO5
		Report	40%	LO2 & LO4
			=80%	
Practice	P1	Laboratory work	20%	LO 1, LO3 & LO5

Updated by: Keith Ebdon Date: Sept 2018	Approved by: R Feaviour Date: Sept 18
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SECTION A: DEFINITIVE MODULE RECORD. Proposed changes must be submitted via Faculty Quality Procedures for approval and issue of new module code.

MODULE CODE: FSFD213	MODULE TITLE Analytical Chemistry
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CREDITS: 20	FHEQ LEVEL:5	JACS CODE: F180
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PRE-REQUISITES: None	CO-REQUISITES: None	COMPENSATABLE: Yes
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SHORT MODULE DESCRIPTOR:
This module will require students to investigate fundamental aspects of qualitative and quantitative analytical chemistry as applied to Forensic Science. This module explores the aspects of precision and accuracy.

ELEMENTS OF ASSESSMENT					
WRITTEN EXAMINATION		COURSEWORK		PRACTICE	
E1 (Formally scheduled)		C1	80%	P1	20%
E2 (OSCE)		C2		P3	
T1 (in-class test)		A1			

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Forensic Science

Professional body minimum pass mark requirement:

MODULE AIMS:
To give students an understanding of the philosophies and procedures relating to analytical chemistry and to the qualitative and quantitative aspects of the techniques involved.

ASSESSED LEARNING OUTCOMES: (additional guidance below)
At the end of the module the learner will be expected to be able to:

1. Demonstrate an understanding of subject-specific theories, paradigms, concepts and principles.
2. Carry out a range of qualitative and quantitative chemical analysis of chemical substances.
3. Critically evaluate data and manipulate it using a range of mathematical and graphical techniques

DATE OF APPROVAL: 12/06/06	Academic Partnerships
DATE OF IMPLEMENTATION: September 2006	City College Plymouth
DATE(S) OF APPROVED CHANGE: 10/06/ 2015	TERM: Autumn

Additional notes (for office use only):

Additional Guidance for Learning Outcomes:

To ensure that the module is pitched at the right level check your intended learning outcomes against the following nationally agreed standards

- Framework for Higher Education Qualifications <http://www.qaa.ac.uk/Publications/InformationAndGuidance/Documents/FHEQ08.pdf>
- Subject benchmark statements <http://www.qaa.ac.uk/ASSURINGSTANDARDSANDQUALITY/SUBJECT-GUIDANCE/Pages/Subject-benchmark-statements.aspx>
- SEEC level descriptors <http://www.seec.org.uk/academic-credit/seec-credit-level-descriptors-2010> (scroll to pdf link at bottom of page)
- Professional, regulatory and statutory (PSRB) accreditation requirements (where necessary e.g. health and social care, medicine, engineering, psychology, architecture, teaching, law)
- QAA Quality Code <http://www.qaa.ac.uk/AssuringStandardsAndQuality/quality-code/Pages/default.aspx>

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

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ACADEMIC YEAR: 2018/19	NATIONAL COST CENTRE: 112
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MODULE LEADER: Keith Ebdon	OTHER MODULE STAFF:
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Summary of Module Content

- Introduction to analytical chemistry. The 'analytical process'. Sampling, sample treatment, overview of techniques. Data treatment and presentation of results. Precision, accuracy and sensitivity, linear regression, units. Quantitative techniques. Quality assurance. Experimental errors, calibration, reference materials, intercomparison exercises. Reporting.

SUMMARY OF TEACHING AND LEARNING

Scheduled Activities	Hours	Comments/Additional Information
Lectures	30	
Practicals	30	
Self study	140	
Total	200	

Category	Element	Component Name	Component weighting	Comments Include links to learning objectives
Written exam	E			
	T			
Coursework	C1	Reports and written questions (portfolio of tasks)	80%	LO 1, LO2 & LO3
Practice	P1	Laboratory work with reports	20%	LO2

Updated by: Keith Ebdon Date: Sept 2018	Approved by: R Feaviour Date: Sept 2018
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SECTION A: DEFINITIVE MODULE RECORD. Proposed changes must be submitted via Faculty Quality Procedures for approval and issue of new module code.

MODULE CODE: FSFD211	MODULE TITLE: FORENSIC PSYCHOLOGY
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CREDITS: 20	FHEQ LEVEL: 5	JACS CODE: C816
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PRE-REQUISITES: NONE	CO-REQUISITES: NONE	COMPENSATABLE: YES
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SHORT MODULE DESCRIPTOR:
 This module will enable students to evaluate and analyse a variety of psychological approaches within forensic psychology. Students will be able to identify, assess and comment upon the effectiveness of psychological approaches within forensic psychology. They will be required to reflect upon the relationships between psychological strategies and other methods relating to Forensic Science.

ELEMENTS OF ASSESSMENT					
WRITTEN EXAMINATION		COURSEWORK		PRACTICE	
E1 (Formally scheduled)		C1	60%	P1	
E2 (OSCE)		C2		P3	
T1 (in-class test)	40%	A1			

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Forensic science

Professional body minimum pass mark requirement: N/A

MODULE AIMS:
 This module aspires to encourage students to identify investigate and evaluate a range of different psychological strategies and approaches pertinent to forensic psychology work.

ASSESSED LEARNING OUTCOMES: (additional guidance below)
 At the end of the module the learner will be expected to be able to:

1. Compare and evaluate different approaches in psychology relevant to forensic psychology.
2. Evaluate the role and uses of psychological approaches within forensic psychology
3. Critically assess how psychological theories can be used to develop an understanding of sexual offenders and the treatment of those offenders.
4. Evaluate the effectiveness of communication and psychological strategies in forensic situations.

DATE OF APPROVAL: 21.06.06	FACULTY/OFFICE:
DATE OF IMPLEMENTATION: Sept 2006	SCHOOL/PARTNER:
DATE(S) OF APPROVED CHANGE: 22/05/13	TERM: Autumn/Spring/Summer/other (please specify)

Additional notes (for office use only):

Additional Guidance for Learning Outcomes:

To ensure that the module is pitched at the right level check your intended learning outcomes against the following nationally agreed standards

- Framework for Higher Education Qualifications <http://www.qaa.ac.uk/Publications/InformationAndGuidance/Documents/FHEQ08.pdf>
- Subject benchmark statements <http://www.qaa.ac.uk/ASSURINGSTANDARDSANDQUALITY/SUBJECT-GUIDANCE/Pages/Subject-benchmark-statements.aspx>
- SEEC level descriptors <http://www.seec.org.uk/academic-credit/seec-credit-level-descriptors-2010> (scroll to pdf link at bottom of page)
- Professional, regulatory and statutory (PSRB) accreditation requirements (where necessary e.g. health and social care, medicine, engineering, psychology, architecture, teaching, law)
- QAA Quality Code <http://www.qaa.ac.uk/AssuringStandardsAndQuality/quality-code/Pages/default.aspx>

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

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ACADEMIC YEAR: 2018/19	NATIONAL COST CENTRE: 104
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MODULE LEADER: Kevin Sinclair	OTHER MODULE STAFF:
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Summary of Module Content

- Different approaches in psychology relevant to forensic psychology work – behaviourist/ cognitive
- The role of psychology in Forensic Science work
- Developing and understanding of human behaviour within the field of deviant sexual behaviour.
- Exploration of the management of forensic psychology .related to sex offenders within both UK and US institutions

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]		
Scheduled Activities	Hours	Comments/Additional Information
Lecture	60	
Independent Study	140	
Total	200	

Category	Element	Component Name	Component weighting	Comments Include links to learning objectives
Written exam	E			
	T	End test	40%	LO3 & LO4
Coursework	C	Written Assignment	60%	LO1 & LO2
Practice	P			

Updated by: K Sinclair Date: Sept 2018	Approved by: R Feaviour Date: Sept 2018
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The recommended texts for the course are:

- Brewer, K and Moxon, D. (eds), (2000) *Psychology and crime* Heinemann educational, Portsmouth
- Feldman P (2000) *The Psychology of Crime* ,Heinneman, Oxford
- Harrower J (1998) *Applying Psychology to Crime* Hodder and Stoughton, London
- Hollin, C., (1989). *Psychology and crime: introduction to criminological psychology*. London: Routledge.
- Jackson JL and Beckerian (1997) *Offender profiling theory* John Wiley & Sons, Chichester
- Kapardis, A. (2003) *Psychology and the law: a critical introduction* Cambridge university press, Cambridge
- Towl GJ & Crighton DA (2000) *Handbook of Psychology for Forensic Practitioners* Taylor and Francis, London
- www.le.ac.uk/scarman
- www.ojp.usdoj.gov
- www.interviewandinterrogation.com
- www.criminology.unimelb.edu.au
- www.docmail.com/learnmore/crime.htm
- www.jcu.edu.au
- www.medscape.com

SECTION A: DEFINITIVE MODULE RECORD. Proposed changes must be submitted via Faculty Quality Procedures for approval and issue of new module code.

MODULE CODE: FSFD 217	MODULE TITLE: THE ENGLISH LEGAL SYSTEM & CRIMINAL JUSTICE
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CREDITS: 20	FHEQ LEVEL: 5	JACS CODE: M250
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PRE-REQUISITES: NONE	CO-REQUISITES: NONE	COMPENSATABLE: YES
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SHORT MODULE DESCRIPTOR:
This module examines key elements of the English Legal System, and its relevance to Forensic Science practitioners. It also examines the roles of organisations within the Criminal Justice System of England and Wales taking into account current trends and prospective policies in law and order

ELEMENTS OF ASSESSMENT [Use HESA KIS definitions]					
WRITTEN EXAMINATION		COURSEWORK		PRACTICE	
E1 (Formally scheduled)		C1	70%	P1	30%
E2 (OSCE)		C2		P3	
T1 (in-class test)		A1			

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Forensic science

Professional body minimum pass mark requirement: N/A

MODULE AIMS:
This module aims to examine key elements of the English Legal System and its relevance to Forensic Science. In addition they will assess the impact of current legislation on law enforcement agency investigations and criminal court procedures including those relating to the presentation of evidence.
This module also aims to provide students with a basic knowledge of the processes and policies of criminal justice organisations and how those organisations interact and respond to crime

ASSESSED LEARNING OUTCOMES: (additional guidance below)
At the end of the module the learner will be expected to be able to:

1. Demonstrates and understands the role and function of organisations within the Criminal Justice system of England and Wales.
2. Evaluates how different organisations deal with crime and offenders.

3. Critically assess the impact of legislation on law enforcement agency investigations and criminal court procedures
4. Appraise and evaluate the role of a forensic scientist as an expert witness in a court of law.

DATE OF APPROVAL: 12/06/2006	Academic Partnerships
DATE OF IMPLEMENTATION: Sept 2007	City College Plymouth
DATE(S) OF APPROVED CHANGE: Jan 16	TERM: All Year

Additional notes (for office use only):

Additional Guidance for Learning Outcomes:

To ensure that the module is pitched at the right level check your intended learning outcomes against the following nationally agreed standards

- Framework for Higher Education Qualifications
<http://www.qaa.ac.uk/Publications/InformationAndGuidance/Documents/FHEQ08.pdf>
- Subject benchmark statements
<http://www.qaa.ac.uk/ASSURINGSTANDARDSANDQUALITY/SUBJECT-GUIDANCE/Pages/Subject-benchmark-statements.aspx>
- SEEC level descriptors <http://www.seec.org.uk/academic-credit/seec-credit-level-descriptors-2010> (scroll to pdf link at bottom of page)
- Professional, regulatory and statutory (PSRB) accreditation requirements (where necessary e.g. health and social care, medicine, engineering, psychology, architecture, teaching, law)
- QAA Quality Code <http://www.qaa.ac.uk/AssuringStandardsAndQuality/quality-code/Pages/default.aspx>

● SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. Some parts of this page may be used in the KIS return and published on the extranet as a guide for prospective students. Further details for current students should be provided in module guidance notes.

ACADEMIC YEAR: 2018/19	NATIONAL COST CENTRE:130
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MODULE LEADER: Rebeca Elias - Jones	OTHER MODULE STAFF:
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<p>Summary of Module Content</p> <ul style="list-style-type: none"> ● Organisations – police, CPS, Courts, Legal profession and judiciary, probation, prison service. ● Criminal Law – purpose, changing nature, classification, types of crime, presumption of innocence burden of proof. Civil law processes and procedures ● Elements of a crime – definition, Actus reus, Mens Rea, Common law, case law, statute law, and the influence of Europe. ● Pace, Human Rights Act, Serious Organised Crime and Police Act 2005, Police investigation, court structures, trials and appeals. Evidence. ● Home Office initiatives, research, legislation and sentencing, political pressures, media, high profile cases, public opinion. ● Crime reduction policies, partnerships, sentencing policies, specific initiatives – zero tolerance, tagging, week end prison
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SUMMARY OF TEACHING AND LEARNING		
Scheduled Activities	Hours	Comments/Additional Information
lectures	60	
Independent Study	140	
Total	200	

Category	Element	Component Name	Component weighting	Comments Include links to learning objectives
Written exam	E			
	T			
Course-work	C	Critical Report	70%	LO1, LO2 & LO3
Practice	P	Presentation	30%	LO4

Updated by: Rebeca Elias-Jones Date: Sept 2018	Approved by: R Feaviour Date: Sept 2018
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SECTION A: DEFINITIVE MODULE RECORD. Proposed changes must be submitted via Faculty Quality Procedures for approval and issue of new module code.

MODULE CODE: FSFD205	MODULE TITLE Research Skills
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CREDITS: 20	FHEQ LEVEL:5	JACS CODE: X210
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PRE-REQUISITES: None	CO-REQUISITES: None	COMPENSATABLE: Yes
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SHORT MODULE DESCRIPTOR:
This module enables students to identify a range of different research methods, processes and considerations which are central in conducting a research project in their academic or professional discipline.

ELEMENTS OF ASSESSMENT					
WRITTEN EXAMINATION		COURSEWORK		PRACTICE	
E1 (Formally scheduled)		C1	100%	P1	
E2 (OSCE)		C2		P3	
T1 (in-class test)		A1			

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Forensic Science

Professional body minimum pass mark requirement:

MODULE AIMS:
The aim of this module is to enable students to develop an understanding of, and reflect upon the nature of a research project, the aims and applications of research, and the methods and procedures for conducting research.

ASSESSED LEARNING OUTCOMES: (additional guidance below)
At the end of the module the learner will be expected to be able to:

1. Produce an appropriate research project proposal.
2. Demonstrate an understanding of the factors which are prevalent when proposing and planning a research project in their chosen academic or professional area.
3. Evaluate a range of research methodologies and data collection techniques.
4. Reflect and provide evaluation by conducting research.

DATE OF APPROVAL: 12/06/06	Academic Partnerships
DATE OF IMPLEMENTATION: September 2007	City College Plymouth
DATE(S) OF APPROVED CHANGE:	TERM: Autumn

Additional notes (for office use only):

Additional Guidance for Learning Outcomes:

To ensure that the module is pitched at the right level check your intended learning outcomes against the following nationally agreed standards

- Framework for Higher Education Qualifications
<http://www.qaa.ac.uk/Publications/InformationAndGuidance/Documents/FHEQ08.pdf>
- Subject benchmark statements
<http://www.qaa.ac.uk/ASSURINGSTANDARDSANDQUALITY/SUBJECT-GUIDANCE/Pages/Subject-benchmark-statements.aspx>
- SEEC level descriptors <http://www.seec.org.uk/academic-credit/seec-credit-level-descriptors-2010> (scroll to pdf link at bottom of page)
- Professional, regulatory and statutory (PSRB) accreditation requirements (where necessary e.g. health and social care, medicine, engineering, psychology, architecture, teaching, law)
- QAA Quality Code <http://www.qaa.ac.uk/AssuringStandardsAndQuality/quality-code/Pages/default.aspx>

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. Some parts of this page may be used in the KIS return and published on the extranet as a guide for prospective students. Further details for current students should be provided in module guidance notes.

ACADEMIC YEAR: 2018/19	NATIONAL COST CENTRE: 27
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MODULE LEADER: Kevin Sinclair	OTHER MODULE STAFF: None
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<p>Summary of Module Content</p> <ul style="list-style-type: none"> • Types of research, barriers and restrictions in research, identifying research • Literature review and existing 'knowledge' • Discipline specific research considerations and issues • Ethics, reliability and validity • Discipline specific research methods, sampling, and the research cycle • Data analysis techniques • Preparing a research proposal • Conducting a research project

SUMMARY OF TEACHING AND LEARNING		
Scheduled Activities	Hours	Comments/Additional Information
lectures	60	
Self study	140	
Total	200	

Category	Element	Component Name	Component weighting	Comments Include links to learning objectives
Written exam	E			
	T			
Coursework	C	Research proposal	30%	LO1, LO2 and LO3
		Research dissertation	70%	LO4
	Total		100%	
Practice	P			

Recommended Texts and Sources

The recommended texts for the course are:

Blaxter, L et al (2001) How to research. Open University press,. Maidenhead
Bryman,A and Burgess,R.G.(1994) Analysing qualitative data. Routledge, London
Bryman,A and Burgess,R.G. (1990) Quantitative data analysis for social scientists.
Routledge, London
Dawson,C (2005) A practical guide to research methods : a user-friendly manual for
mastering research techniques and projects How to Books, London
Gill,G and Johnson (2002) Research methods for managers Sage publications, London
O'Leary, Z (2004) The essential guide to doing research Sage publications, London
Robson,C (1993) Real world research Blackwells, Oxford
Ruane, J (2005) Essentials of research methods Blackwells, Oxford
Walliman,N.(2005) Your research project Sage publications, London
Williams,M (2000) Science and social science Routledge, London

www.aqr.org.uk

www.socialresearchmethods.net

www.soc.umn.edu