

# UNIVERSITY OF WOLVERHAMPTON

## Postgraduate Environmental Awards

MSc Environmental Pollution Control

MSc Waste and Resource Management

MSc Climate Change Management

MSc Environmental Management

MSc Environmental Technology

## COURSE GUIDE 2012/13

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## About this guide

This Course Guide will help you plan your course. It tells you which modules you must study and pass, and lists the optional ones which contribute to your award. The Guide also offers you brief descriptions of each module, including general information about assessment tasks, and an overview of how the Course can be used for future career choices.

You should read this Course Guide in conjunction with the [Undergraduate Student Guide: the University's Policies and Regulations](#) and/or [Postgraduate Student Guide](#). These documents should provide you with all the basic information that we think you will need for your period of study here.

You are encouraged to read this Guide through now. It will be a considerable advantage to you to be familiar from the outset with the various aspects of your studies that are described. It may be that the relevance of some of the sections will not be immediately obvious. Keep it somewhere accessible, so that you can refer to it as needed. The answers to many of the questions that you will want to ask are contained in it.

Obviously even in a document like this we have not covered every query and problem that you might have about the course. If you find that there is something you need to know, please check on [SAS Student Support Portal in WOLF](#) or contact the SAS Student Support Office (details below). You can also consult the University's [Student Services Gateway](#) as appropriate. We are pleased to hear your views and welcome suggestions for ways of improving the operation of the Course.

Please enter the contact details for your Personal Tutor for your future reference:	----- <i>The name of your Personal Tutor will be given to you at the beginning of your course and can be checked via e:Vision</i>
Your School Student Support Office is:	<b>Student Support Office</b> <b>Room: MA104</b> <b>Tel : 01902 322129</b> <b>Email: sasstudentsupport@wlv.ac.uk</b>
Your local <i>HERE 2 HELP</i> is:	Ground floor MD Building, City Campus (South) Tel: 01902 322487 Fax:01902 322185

Please note that in order to develop and improve the Course, it may be necessary on occasions to amend or revise the details given in this Course Guide.

## Welcome

On behalf of the Course Management Team I should like to extend to you a very warm welcome and I would like to take this opportunity to wish you every success in your studies at the University of Wolverhampton, and trust that your time at the University of Wolverhampton will prove to be enjoyable, stimulating and rewarding.

The Environmental Courses are run by the School of Applied Sciences which has established an excellent reputation for the quality of its courses, for an innovative approach to teaching and learning, and for the friendliness of its staff.

We believe it is important that you are encouraged to make your own contribution to the effective operation and development of your chosen course. We are, therefore, keen to hear your views and would welcome any suggestions that you may have about ways of improving any aspect of your course and/or the student experience here at the University. In practice, you will have the opportunity to do this through our 'student voice' processes, such as the staff-student liaison meetings.

Remember that the outcome of your studies could affect the whole of your future career and therefore study should certainly be your first priority. In resolving to work hard however, do not forget to have time for recreation and social activities. Do take full advantage of the [University facilities](#) at your disposal.

Dr Kate Tobin  
Course manager

## **Attendance**

The University recognises that you have made a significant investment in both time and money in choosing to study for a degree. Staff are committed to helping you fulfil your potential. Your attendance at, and participation, in classes is a key factor in ensuring that you do so.

Attendance will help you to:

- Understand the subject area you are studying;
- Acquire and develop the skills and knowledge needed to ensure success;
- Prepare for and undertake assessments;
- Learn from and with your fellow students;
- Receive feedback from teaching;
- Participate in practical and group work;
- Develop your communication skills.

If you are unable to attend a class please let your tutor know that you are unable to do so. He/she will then be able to give you advice on what was covered in the class, and what you need to do to catch up. Please do remember how important attendance is to your success.

**The University considers this to be so important that it reserves the right to review the position of students who fail to attend.**

## **The Wolverhampton Graduate**

By the end of your course, the university expects you to be a Wolverhampton Graduate who is knowledgeable and enterprising, digitally literate and a global citizen.

### **Digitally Literate**

Our graduates will be confident users of advanced technologies; they will lead others, challenging convention by exploiting the rich sources of connectivity digital working allows.

### **Knowledgeable and Enterprising**

Our graduates will know how to critique analyse and then apply knowledge they acquire in an enterprising way.

### **Global citizens**

Our graduates will bring an informed understanding of their place and ethical responsibilities in the world.

Further information can be found on the University student webpage for [Graduate Attributes](#).

## About the Course

This Guide outlines the modules which are available, teaching and learning activities and assessment tasks. If there is anything you need to discuss further, please contact your Personal Tutor.

The Department has over 20 years experience of delivering applied environmental awards. Students find our staff friendly, approachable and supportive. You will be studying in an international environment, with students from many different countries. You will be able to take advantage of the extensive field and laboratory facilities in the Department to undertake your own practically based research.

### MSc Environmental Pollution Control

The educational aims of the course:

Preventing and controlling pollution of the environment is a major challenge facing both developed and developing countries. This applied masters course provides you with a detailed understanding of the key environmental pollutants and of the current methods used to control pollution from land, water and atmospheric sources. The legislative framework for pollution control within Europe is emphasised. The concept of sustainability is key to the approach taken. As a graduate of this MSc you will be equipped to solve environmental pollution problems, through the selection and application of appropriate control and remediation technologies and thus be prepared for careers in a range of pollution control industries, both in the UK and overseas.

The course learning outcomes are:

- Demonstrate a detailed understanding of pollution concepts and current control methods for pollution of air, water and soil, informed by scholarship and research
- Manage environmental pollution problems, by selecting and applying appropriate control and remediation technologies
- Undertake an independent research project which tests an appropriate research hypothesis in environmental pollution control
- Synthesise, summarise and critically evaluate information on pollution control from a range of specialist sources.
- Communicate scientific information effectively, with specialist and non-specialist audiences, utilising a variety of appropriate media.

### MSc Waste and Resource Management

***The educational aims of the course:***

The MSc Award in Waste and Resource Management focuses on a range of issues and problems encountered by the waste industry in both the private and public sectors. The Award is broadly divided into two main areas of study. Firstly, core and core option modules deal primarily with the sustainable management of wastes and the utilisation of useful resources from such materials. This includes technologies and methodologies available to successfully treat and manage the different materials, and the products or emission streams of such technological solutions. Secondly, core modules introduce a range of the more generic study and personal development

skills that a project manager in waste might be expected to demonstrate. Furthermore the programme aims to introduce students to the appropriate methods of sampling, analysis and data handling needed to monitor processes and associated environmental impacts. There is a strong applied and technological perspective to the course, which is designed to equip students for careers in the waste, pollution control and clean-up industries. There is also an opportunity to enhance employability through the experience of postgraduate learning in the workplace through the WM Solutions for Business module.

***The course learning outcomes are:***

- Apply subject knowledge and understanding to solve waste management issues and problems in complex and unpredictable situations
- Critically evaluate the thinking, actions and structural factors operating in the practice of waste management, and reflect on specific waste management issues
- Formulate and test appropriate research questions and hypotheses in waste management
- Locate, identify and extract information on waste management from a variety of specialist sources using appropriate research methods
- Design and implement an independent research project with due attention to risk assessment and ethical implications
- Demonstrate a high level of competence in the professional communication of scientific information using oral and written skills

## **MSc Climate Change Management**

***The educational aims of the course:***

The MSc in Climate Change Management focuses on critically analysing the causes and application of solutions to current issues of climate change. The course aims to explore the causes, consequences and dynamics of climate change. On this basis, detailed studies will seek to critically analyse strategies to manage climate change impacts, in terms of both mitigation and adaptation. Understanding the challenges and business opportunities provided by climate change is an integral aim of the course. Particular emphasis will be placed on studying the financial and ethical contributions that renewable energy based organisations can make to the development of a modern, sustainable economy, such as developing carbon-management plans for specific clients.

***The course learning outcomes are:***

- Apply subject knowledge and critical analysis to complex and unpredictable situations to address environmental problems.
- Produce a literature review by critically evaluating, synthesizing and summarizing the relevant literature.
- Formulate and test an appropriate research question.
- Critically analyse the causes, consequences and dynamics of climate change.
- Evaluate strategies to manage climate change impacts, in terms of both mitigation and adaptation.
- Identify and synthesize the financial and ethical contributions that renewable energy based organisations make to a modern, sustainable economy.

## **MSc Environmental Management**

### ***The educational aims of the course:***

Environmental management forms a key part of society's response to local and emerging global environmental threats within the United Kingdom as well as internationally. The challenge facing businesses, individuals and governments is to transform existing behaviours and approaches and to embrace more sustainable forms of human existence. This course, which is open to undergraduates with an appropriate science or social science qualification, investigates the transition to sustainable and low carbon forms of development through modules focusing on 'greening' organisations, evaluating major development proposals and urban spatial planning. Students will develop a critical awareness of key evaluative and decision-making frameworks including: environmental management systems, environmental auditing and lifecycle analysis; environmental impact assessment (EIA), cost-benefit analysis and strategic environmental assessment; and, area-based planning for sustainable communities and sustainable urban regions. Core options provide students with the chance to develop further skills in land management through geographical information systems (GIS) and remote sensing, or to investigate climate change mitigation and adaptation strategies. Additional student skills will include an awareness of geographical and business diversity, plus the barriers to change, when recommending sustainability solutions. The course draws upon a diverse array of learning activities and assessments, and students are required to complete a supervised research thesis after taking an introductory module on environmental research methods. Career pathways lie within businesses, government, consultancies and environmental organisations.

### ***The course learning outcomes are:***

- Summarise, synthesis and apply information relating to environmental problems and solutions in a range of complex situations
- Exhibit a heightened level of competence in professionally communicating material relating to environmental management in a variety of settings
- Critically analyse environmental management and planning methods and techniques
- Assess critically contemporary environmental and sustainability visions, barriers towards action and opportunities
- 5. Design and complete a research thesis with due attention to data collection, data analysis and critical independent thought

## **MSc Environmental Technology**

### ***The educational aims of the course:***

The MSc in Environmental Technology focuses on the prevention and solution of environmental problems using appropriate and sustainable technologies. The environmental impacts of human activities on water, air and land will be investigated utilising our extensive laboratory equipment, GIS and remote sensing software and monitoring technologies. Using excellent IT, laboratory and field facilities, the course couples methodological issues and problem-solving, with essential practical work. You will be introduced to the appropriate methods of sampling, analysis and data handling required to monitor processes and minimise their environmental impacts. The course is flexible and allows a wide choice of topic areas and potential career directions. There is a strong applied and technological perspective designed to equip you for careers in the waste, water, pollution control, environment and clean-up industries.

The course learning outcomes are:

- Demonstrate an in-depth knowledge and understanding of the concepts and methods used in the technological based solution of environmental problems informed by current scholarship and research.
- Use a range of appropriate techniques and research methods to address the technical solution of environmental problems in complex and unpredictable situations involving both practical and theoretical contexts.
- Demonstrate self-direction and originality in formulating and testing a 'research' question, and act autonomously in planning and implementing the associated tasks to support and conclude this endeavour.
- Source, obtain, synthesise and critically review the existing literature and other scholarly outputs, in support of a research project.
- Communicate effectively, with specialist and non-specialist audiences, utilising a variety of appropriate media.
- Solve problems in creative and innovative ways and make decisions in challenging situations, in the face of partial and fragmentary information.

## Learning Activities

The learning outcomes for these courses will be achieved through the following learning activities:

### ***i) Lectures***

Students attend lectures in modules to develop a greater understanding of complex issues in a wider context and to be inspired by high-quality collated information.

### ***ii) Discussion Groups and Workshops***

Students learn by participating in collaborative activities and by developing their communication skills within module discussion or workshops. Debating and presentation skills are thus enhanced, allowing students to critique, analyse and apply knowledge to new situations.

### ***iii) Practicals***

Practicals take place in both laboratories and classrooms. Activities could be work-based, inquiry-based or involve problem-solving exercises. There is a strong emphasis on real-world case study material in modules, which allows the development of the all three graduate skills. The amount of practical work depends on which course you are taking.

### ***iv) Fieldwork***

Some modules contain compulsory field excursions, typically to private enterprises or Local Authority facilities where pollution control is being undertaken. Fieldwork is important to reinforce ideas developed in other forms of learning and to enhance observational skills.

### ***v) Self Study***

All modules contain directed and non-directed self study. Both types of self study allow students to develop their personal time management and organisational skills. Students engage productively with online communities, e.g. Course Café in WOLF, to develop their digital literacy attributes.

Core academic study skills are developed and enhanced in two generic modules that form the main learning base for skills utilised in all modules, in particular 7EA001 Research Project. These two generic modules are:

- a) 7EA014 Professional Communication Skills
- b) 7EA001 Environmental Research Methods

## **Assessment methods**

The assessments in these courses contain a mixture of methods to reflect a wide and flexible approach to learning. The bulk of assessment is coursework-related, with some conventional written examinations.

The assessment methods include the following. The range of assessment types varies depending on your course.

### **1. Coursework:**

All coursework will be word-processed and assignments are designed to give variety within the Award. They may be submitted online where appropriate. Specific examples of written coursework are –

- i) Literature review
- ii) Essay
- iii) Case Study Report
- iv) Research Proposal and the Postgraduate Project

### **2. Written Examination**

This provides an opportunity to demonstrate how students can perform under time-constrained pressure situations, possibly reflecting real time situations in the workplace. Exams also argue against plagiarism.

### **3. Oral Presentation**

Effective communication is one of the postgraduate generic skills particularly valued by employers and so oral presentations allow students a forum to demonstrate their competence in both delivering an oral communication as well as defending some of their ideas to an audience.

## **Academic Regulations**

This course adheres to the University's academic regulations. A full version of these regulations can be found on the University web page [for Policies and Regulations](#). These regulations govern your course and will be binding on you. It is, therefore, important that you read and become familiar with them.

## Course information

### *Support for learning*

#### **Harrison Learning Centre (HLC)**

The HLC delivers a number of face-to-face contact sessions and self-help programmes to help students develop their own study skills. Specific resources include Infobites (print + electronic resources), academic writing skills, correct referencing skills, using EndNote and numerous IT self help guides. You can make an appointment to see a Study Skills Advisor, who can advise on specific requests.

#### **SAMS Appointments**

All academic staff provide regular appointment slots (at least 3 hours per week). Students can book these on demand and they can be used to support student learning.

#### **Personal Tutor System**

All students are assigned a Personal Tutor, please make a SAMS appointment to see your tutor at the beginning of your studies and then at any point during your studies when you need further advice about your programme or if any personal circumstances are affecting your study.

#### **Module Guides**

At the commencement of each module that you study, you will be provided with a module guide which will normally give full details of the **teaching programme**, the staff team responsible for the module, guided reading, and the assessment schedule for the module. These guides are valuable sources of information that will help you to plan your studies. They are published on-line via WOLF.

## Course Structure for postgraduate courses

PG Regulations
Students will study:  <b>Standard Full-time:</b> modules worth 180 credits (a full masters course may be completed over one calendar year), taught over the 4 Postgraduate Blocks.  <b>Part-time:</b> normally modules worth no more than 80 credits each academic year taught over 3 Postgraduate Blocks.

## MSc Environmental Pollution Control

### Full-time structure

Block 1	Block 2	Block 3	Block 4
7EA014 Professional Communication Skills	7EA016 Contaminated Land	7EA001 Research Methods	7EA002 Research Project
7EA015 Water Pollution Control	7AB001 Bioremediation or 7EH003 Landfill and Incineration or 7EA013 Postgraduate Learning in the Workplace	7EA011 Air Pollution Control	

### Part-time structure – Year 1

Block 1	Block 2	Block 3	Block 4
7EA014 Professional Communication Skills	7EA016 Contaminated Land	7EA011 Air Pollution Control	

### Part-time structure – Year 2

Block 1	Block 2	Block 3	Block 4
7EA015 Water Pollution Control	7AB001 Bioremediation or 7EH003 Landfill and Incineration or 7EA008 Negotiated Tutorial Topic or 7EA013 Postgraduate Learning in the Workplace	7EA001 Research Methods	7EA002 Research Project

### Part-time structure – Year 3

Block 1
7EA002 Research Project

## MSc Waste and Resource Management

### Full-time structure

Block 1	Block 2	Block 3	Block 4
7EA014 Professional Communication Skills	7EH003 Landfill and Incineration	7EA001 Research Methods	7EA002 Research Project
7EH002 Sustainable Waste Management	7EH005 Waste Management Solutions for Business or 7AB001 Bioremediation	7EH004 The Management of Biowaste	

### Part-time structure – Year 1

Block 1	Block 2	Block 3	Block 4
7EA014 Professional Communication Skills	7EH003 Landfill and Incineration	7EH004 The Management of Biowaste	

### Part-time structure – Year 2

Block 1	Block 2	Block 3	Block 4
7EH002 Sustainable Waste Management	7EH005 Waste Management Solutions for Business or 7AB001 Bioremediation	7EA001 Research Methods	7EA002 Research Project

### Part-time structure – Year 3

Block 1	
7EA002 Research Project	

## MSc Climate Change Management

### Full-time structure

Block 1	Block 2	Block 3	Block 4
7EA014 Professional Communication Skills	7EA007 Strategies for Climate Change: Mitigation and Adaptation	7EA001 Research Methods	7EA002 Research Project
7EA010 Climate Change: Causes and Consequences	7HR018 Business Ethics and Ecopreneurship	7FC004 Business and Sustainability	

### Part-time structure: Year 1

Block 1	Block 2	Block 3	Block 4
7EA014 Professional Communication Skills	7EA007 Strategies for Climate Change: Mitigation and Adaptation	7FC004 Business and Sustainability	

### Part-time structure: Year 2

Block 1	Block 2	Block 3	Block 4
7EA010 Climate Change: Causes and Consequences	7HR018 Business Ethics and Ecopreneurship	7EA001 Research Methods	7EA002 Research Project

### Part-time structure: Year 3

Block 1
7EA002 Research Project

## MSc Environmental Management

### Full-time structure

Block 1	Block 2	Block 3	Block 4
7EA014 Professional Communication Skills	7EA006 Environmental Management Systems	7EA004 Urban Sustainability	7EA002 Research Project
7EA003 Environmental Assessment	7EA007 <i>Strategies for Climate Change: Mitigation and Adaptation or</i>	7EA001 Research Methods	
	7EA012 <i>GIS &amp; remote sensing or</i>		
	7EA013 <i>Postgraduate Learning in the Workplace</i>		

### Part-time structure – Year 1

Block 1	Block 2	Block 3	Block 4
7EA014 Professional Communication Skills	7EA006 Environmental Management Systems	7EA004 Urban Sustainability	

### Part-time structure – Year 2

Block 1	Block 2	Block 3	Block 4
7EA003 Environmental Assessment	7EA007 <i>Strategies for Climate Change: Mitigation and Adaptation or</i>	7EA001 Research Methods	7EA002 Research Project
	7EA012 <i>GIS &amp; remote sensing or</i>		
	7EA008 <i>Negotiated Tutorial Topic or</i>		
	7EA013 <i>Postgraduate Learning in the Workplace</i>		

### Part-time structure – Year 3

Block 1	Block 2	Block 3	Block 4
7EA002 Research Project			

## MSc Environmental Technology

### Full-time structure

Block 1	Block 2	Block 3	Block 4
7EA014 Professional Communication Skills	7EA012 GIS & remote sensing	7EA001 Research Methods	7EA002 Research Project
7EA015* <i>Water Pollution Control or 7EH002# Sustainable Waste Management</i>	7EA007 <i>Strategies for Climate Change: Mitigation and Adaptation or 7EA013 Postgraduate Learning in the Workplace</i>	7EA011* <i>Air Pollution Control or 7EH004# The Management of Biowaste</i>	

- \* If you choose 7EA015 in block 1, you must take 7EH004 in block 3
- # If you choose 7EH002 in block 1, you must take 7EA011 in block 3

### Part-time structure – Year 1

Block 1	Block 2	Block 3	Block 4
7EA014 Professional Communication Skills	7EA012 GIS & remote sensing	7EA011* <i>Air Pollution Control or 7EH004# The Management of Biowaste</i>	

- \* If you choose 7EA011 in block 3, you must take 7EH002 in block 1
- # If you choose 7EH004 in block 3, you must take 7EA015 in block 1

### Part-time structure – Year 2

Block 1	Block 2	Block 3	Block 4
7EA015* <i>Water Pollution Control or 7EH002# Sustainable Waste Management</i>	7EA007 <i>Strategies for Climate Change: Mitigation and Adaptation or 7EA008 Negotiated Tutorial Topic or 7EA013 Postgraduate Learning in the Workplace</i>	7EA001 Research Methods	7EA002 Research Project

### Part-time structure – Year 3

Block 1
7EA002 Research Project

# University Academic Calendar 2012/13

[University Academic Calendar.](#)

## Course Management and Staff Involved with the Course

Name	Role	Room	Tel 01902 32- - -	e-mail @wlv.ac.uk
Dr L.Besenyei		MA204	2160	L.Besenyei
Mr A.W.Black	Laboratory Manager	MA42	2164	A.W.Black
Dr C.V.A.Duke		MA144	2737	C.V.A.Duke
Dr K.M.Farr		MA204	2150	K.Farr
Prof.M.A.Fullen	Course leader Climate Change Management	MA205	2410	M.Fullen
Dr S.Henderson	Course leader Environmental Management	MA205	2158	Steven.Henderson
Dr D. Hill	Department leader	MA206b	2161	d.hill
Dr I.D.Hooper	Course leader Environmental Technology Work Placement Tutor	MA203	2162	I.Hooper
Mr.K.M.Oliver	Student advisor	MA118	2215	K.M.Oliver2
Dr C.L.Roberts	Course leader Waste and Resource Management	MA205	2192	C.L.Roberts
Dr C.M.Tobin	MSc course manager Course leader Environmental Pollution Control	MA203	3565	C.M.Tobin
Dr D.G.Watkin		MA206	2175	D.G.Watkin
Prof.C.Williams		MA137	2159	C.Williams
D.Williams		MA204	3583	D.R.Williams
Dr C.Young		MA203	2158	C.H.Young

### **Other useful contacts:**

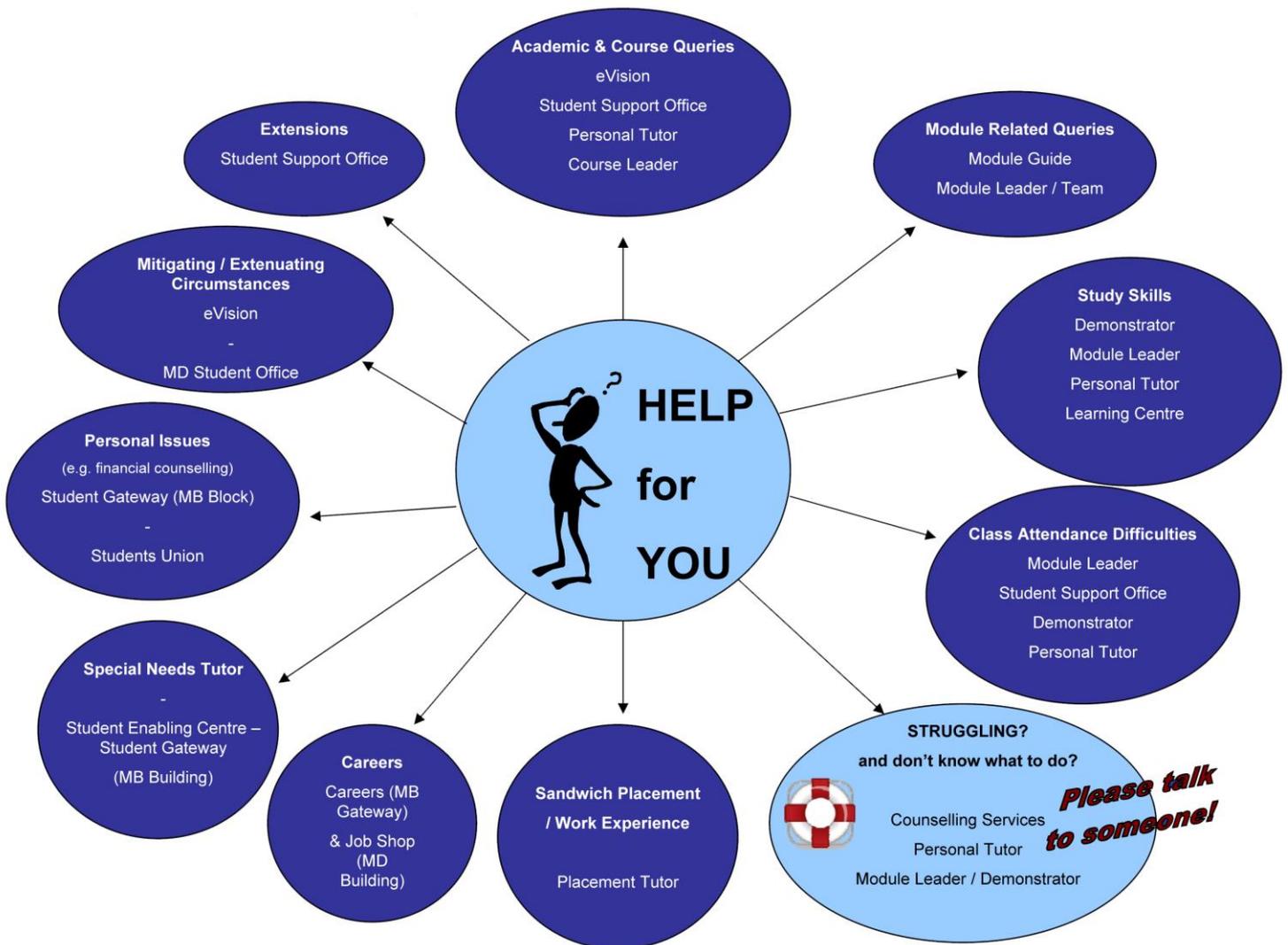
Name	Role	Room	Tel 01902 32****	e-mail @wlv.ac.uk
Student Registry (Here2Help)		MD Block	1106	
SAS Student Support Office		MA104	2129	SASStudentsupport
Student Gateway		MB Block	1603	gateway
Mrs Joan Blackhurst	Academic Resource Librarian	Learning Centre MD Block	3129	J.Blackhurst
International Centre		MB Block	2735	international

## Where to get help with your course

If you find that there is something you need to know, please check on [SAS Student Support Portal in WOLF](#) or contact the SAS Student Support Office in room MA104, Tel: 01902 322129 or Email: [sasstudentsupport@wlv.ac.uk](mailto:sasstudentsupport@wlv.ac.uk).

### Student Support

If you encounter any issues (personal or academic) the following diagram directs you to the appropriate department or staff member.



## Employability

### What is 'Employability'?

'Employability' is concerned with the development of skills aimed at enhancing your employment prospects throughout your time here at the University of Wolverhampton. Developing specialist subject and academic knowledge is important for employers but they also want to employ individuals who are able to:

- Communicate effectively,
- Work in a team and have good interpersonal skills.
- Solve problems
- Work on their own using their own initiative and are able to adapt to changing situations
- Be self-confident

### How Will You Develop Your Employment Skills?

At the School of Applied Sciences we aim to provide you with the opportunity to develop these through the modules you will be studying. The assessments you do for your modules are designed to help you develop Subject specific skills through the research you undertake for the assignments. In addition, they are also designed to help you develop other key skills such as your written communication skills. Where you have formal presentations, this will build your self-confidence in addition to helping you develop your skills of verbal communication. Working as part of a team will develop vital group-work skills. Attending your classes regularly will further ensure that you have the opportunity to develop other skills.

Throughout your time at the University, you will develop and be able to demonstrate a number of skills, some of which are listed below:

- Working as part of a group
- Demonstrating teamwork skills and leadership skills
- Effective communication
- Written (via reports etc.)
- Oral (through formal presentations)
- Problem-solving
- IT skills (which include use of basic packages for word processing, spreadsheets, use of email etc.)
- Time management – attending classes, handing in of assignments, planning study time

You may also be working part-time. The experience you gain within a work environment is a very worthwhile one and also helps you to develop transferable skills which are valued by employers.

## **Career opportunities**

### ***MSc Environmental Pollution Control***

The Department has excellent industrial links, for example with the Environment Agency, Severn Trent Water and Local Authorities. Site visits and keynote speakers from industry ensure the relevance of the course to employment is emphasised. This course will prepare students for employment in the waste, water, pollution control and clean-up industries, including the Environment Agency, Water PLCs, Environmental Consultancies and Local Authorities.

### ***MSc Waste and Resource Management***

Successful students on this Award may be employed within the waste management sector, the waste policy development organisations and the pollution control and clean-up industries. Such organisations might include DEFRA, the Environment Agency, environmental consultancies, Local Authorities, small to medium enterprises (SMEs), large organisations (e.g. Boots, Jaguar, BMW, Cadburys, Veolia, SITA, Biffa, Biogen, Severn Trent Water). Students are encouraged to join the Chartered Institute of Waste Management (CIWM), who offer discount rates for students.

### ***MSc Climate Change Management***

Climate Change Management is an increasingly important aspect of Government policy and increased employment opportunities are developing in this area. Furthermore, all large employers are now legally obliged to develop a 'carbon-management plan,' with the strategic aim of decreasing energy consumption and increasing the efficiency of energy use. It is likely that these legal requirements and targets will be progressively imposed on smaller enterprises. Therefore, carbon-management is becoming an increasingly important dimension of the activities of both industry and commerce, both in the UK and overseas. It is likely that there will be employment opportunities with Environmental and Ecological consultancies, including the Wildlife Trusts, Natural England, the Environment Agency, various regional and local government bodies, industrial and commercial enterprises, environmental consultancies and environmental health agencies. These growing opportunities are developing in many countries. Given the nature of environmental problems and trends in legal requirements for active carbon management, the importance of the topic (and associated potential employment opportunities) will certainly progressively increase. Moreover, the course will provide a sound basis for further studies for a research degree, especially a Ph.D.

### ***MSc Environmental Management***

As a graduate of Environmental Management you will have an awareness of different environmental and sustainability decision-making frameworks, and the capacity to offer critical insight as to how they be implemented within specific organisations or selected geographical areas. As a result the potential exists for graduates to enter into employment within private companies, government (e.g. Environment Agency, local authorities), environmental consultancies and environmental organisations either in the UK or internationally. Alternatively, you may continue with postgraduate research in environmental management.

### ***MSc Environmental Technology***

This award offers a broad range of potential career routes in the waste, water, pollution control, environment and clean-up industries. Examples include the Environment Agency, Environmental Consultancies and Local Authorities.

## **Health & Safety issues**

### ***Health & Safety issues in the laboratory and the field***

In addition to the normal University guidelines about health, safety and behaviour, you will also need to be particularly vigilant in laboratories and out in the field. You will be asked to read and sign a document about field and laboratory safety at the start of your course. You must provide yourselves with a protective laboratory coat. You must be particularly vigilant when working in the field or laboratory, or with specialised equipment, and follow all safety instructions issued to you by a member of staff. Any student who is deemed to be putting him/herself, or others, at risk will be asked to leave the laboratory, or field course, with any consequent loss of study credits and possible resultant financial penalty.

When undertaking fieldwork you must follow the relevant fieldwork safety codes and take responsibility for your own actions. Do not take any unnecessary risks which might endanger yourself or other people. Do not work in the field alone.

As with all places of work, the University comes under the scope of the Health and Safety at Work Act, 1974 and, more recently the COSHH regulations. Safe working in the laboratories is covered by a code of practice published by the University. Before any practical work is carried out, a COSHH hazard evaluation sheet (available from Mr Andrew Black, laboratory manager) must be completed and signed by the academic responsible for the project or practical.

### ***Fieldwork arrangements***

As part of MSc courses in environmental subjects the development of fieldwork skills is an important component. This may involve fieldwork of a day/half day duration. Students with special needs must inform the Special Needs Tutor and fieldwork leader well in advance of the trip to ensure that appropriate teaching provision can be provided. If, following these discussions, a venue is considered unsuitable to meet the learning outcome requirements for the student, or it is agreed that health and safety standards will be compromised, alternative provision will be discussed with the student. Although field visits are heavily subsidised by the School, for some field visits students will need to make a financial contribution towards their cost.

Students must provide appropriate clothing and footwear for outdoor work. Advice can be obtained from any member of staff about this. Students normally need to provide a packed lunch.

It is a student's responsibility to turn up on time to meet transport which has been booked to take students to and from field visits. It is up to the student to ensure that he or she finds out about such arrangements before the departure date. Any student wishing to make his/her own way to a venue must arrange well in advance with the tutor leading the field visit, otherwise the student may be asked to contribute his/her share towards the cost of University vehicle hire and staffing.

### ***Smoking and drinking***

The University has a strict no-smoking policy which means that smoking is restricted to designated areas only. This also applies to teaching undertaken at other sites which you might visit on field work, and whilst travelling to and from sites on University transport. No alcoholic drinks may be consumed on University premises except in bars provided for that purpose. Alcohol may also not be consumed during teaching on field courses.

### ***Mobile phones***

Mobile phones must be switched off in all lecture rooms, computer suites, practical laboratories, the Learning Centre, during field visits and during examinations.

It is however a good idea to bring a mobile phone with you when undertaking fieldwork away from the University.

## School Charter for Students

The University is a community of learning; each and every member, be they staff or students, have responsibilities to that community as well as to themselves. All students of the university have the right to study in an environment that promotes success. This means that no one should be distracted by the inconsiderate behaviour of others; for example by people who arrive late, or talk in lectures or the learning centre.

### In order to help you achieve your objectives with us, we will strive to provide:

- Effective impartial advice and guidance
- An effective introduction to the University, the School of Applied Sciences and your chosen course
- A welcoming environment with quiet places to study
- Appropriate resources including books and computing resources
- Qualified and professional tutors and staff
- Stimulating and well planned learning opportunities
- Well-defined and appropriate programmes of study
- Opportunities to plan and review progress with tutors and student support workers
- Access to learning support
- Access to confidential counselling and careers advice

### We will aim to ensure that

- Timely and appropriate feedback will be provided on assessments
- You have a personal tutor
- You can book an appointment with your tutor using the on-line booking system
- You will have access to the information you need to progress on your course e.g. each module you study will be accompanied by a module guide, similarly your award/pathway will have a guide or handbook

You will find information about all of the above in your Pathway Guide or Award Handbook, or from your tutor or from the web.

### The University expects and needs you to:

- Make regular use of the electronic systems provided for your use e.g. E-Mail, E-Vision, Wolf and the student appointments system. If you do not make use of these resources you cannot perform well.
- Attend regularly and punctually, this means for example, that you should not enter a teaching room after the session has started or miss appointments you have made to see staff.
- Given in all your assessments on time (or they will not be marked)
- Show courtesy and respect to staff and other students, this means for example, that cell phones should be turned off in all teaching sessions.
- Ensure that you understand the requirements of your award/pathway
- Ensure that you are aware of the requirements of each module you are studying and are aware which sessions to attend and what the assessment procedures are
- Respect and abide by University Regulations, e.g. Equal Opportunities Policy, ID Cards, quiet areas.
- Bring all the personal equipment that you require to classes/workshops
- Show consideration to others by listening attentively and participating in class activities
- Keep your tutor informed if you have personal problems that affect your work; if these problems make it necessary to seek extensions, to do so before the deadline
- Identify for yourself what constitutes academic misconduct such as plagiarism and make every effort to avoid it. (See <http://www.wlv.ac.uk/polsregs> for definitions and help)
- Use the student support office (Room MA104) to get quick answers to your queries without hunting for a lecturer.
- Seek approval for and confirm any change of programme within the deadlines
- Inform the University when your address or other contact details change
- Follow Health and Safety guidelines in laboratory and fieldwork settings.
- Behave appropriately as an ambassador for the University when working off campus.

## **Academic Misconduct**

***The University considers seriously all acts of academic misconduct, which by definition are dishonest and in direct opposition to the values of a learning community. Academic misconduct, if not challenged, will ultimately devalue academic standards and honest effort on the part of students.***

### **Defining Academic Misconduct**

#### ***Cheating***

*Cheating is defined as any attempt to gain unfair advantage in an assessment by dishonest means, and includes, for example, all breaches of examination room rules, impersonating another student, falsifying data, and obtaining an examination paper in advance of its authorised release.*

This is not an exhaustive list and other common examples of cheating would include –

- Being in possession of “crib notes” during an examination
- Copying from the work of another student
- Prohibited communication during an examination
- Acts of plagiarism or collusion as defined below

#### ***Collusion***

*Collusion is when two or more people combine to produce a piece of work for assessment that is passed off as the work of one student alone. The work may be so alike in content, wording and structure that the similarity goes beyond what might have been coincidence. For example – where one student has copied the work of another, or where a joint effort has taken place in producing what should have been an individual effort.*

Collusion should not be confused with the normal situation in which students learn from one another, sharing ideas and group work to complete assignments (where this is specifically authorised).

#### ***Plagiarism***

*Plagiarism is the act of taking someone else’s work and passing it off as your own. This includes incorporating either unattributed direct quotation(s) or substantial paraphrasing from the work of another/others. It is important to cite all sources whose work has been drawn on and reference them fully in accordance with the referencing standard used in each academic school.*

The most common forms of plagiarism are –

- Cut or copied and pasted materials from websites
- Copying the work of another student (past or present) including essays available through “essay bank” websites – or other data.
- Copying material from a text book or journal

*Students may go to great lengths to disguise the source reference they have been consulting in contributing to an assignment – without understanding that with proper referencing this is entirely acceptable.*

### **Support for Students**

The University, through its academic staff, will be both sympathetic and supportive in preventing plagiarism and other forms of academic misconduct.

A variety of support mechanisms are in place to help students succeed and avoid academic misconduct.

- Visit our study skills support website at [www.wlv.ac.uk/skills](http://www.wlv.ac.uk/skills) See the section on tackling academic misconduct.
- Download the Students' Union guide to Avoiding Academic Misconduct ("Read, Write, Pass") - available from the same webpages.
- Book an appointment to see a study skills adviser - through the Learning Centres.
- Speak to your personal tutor or module leader.
- There is help available if you need it. The University caught and prosecuted 500 cases of Academic Misconduct last year - it is better to do the work than think you can get away with cheating - the penalties are severe...

### **Penalties**

Where an offence is admitted, or a panel decides that cheating, plagiarism or collusion has occurred, a penalty will be imposed. The severity of the penalty will vary according to the nature of the offence and the level of study. Penalties will range from failure of the assignment under investigation to a restriction of the award a student may ultimately achieve or a requirement to leave the University.

Full details about the University's policy on Academic Misconduct and regulations and procedures for the investigation of academic misconduct are available at our website: [www.wlv.ac.uk/polsregs](http://www.wlv.ac.uk/polsregs)