

The undergraduate dissertation in economics: a practical guide

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1 Introduction

A key aim of any honours degree programme in the UK is to encourage students to become independent learners. This is no easy task in an environment in which many students arrive from school or college with preconceived notions of what is meant by study, and an array of expectations about the support they will receive from academic staff.

The consultation document issued by the QAA in April 2008 concerning the framework for higher education qualifications sets out the following descriptor for a Bachelor's degree with honours:

'Bachelor's degrees with honours are awarded to students who have demonstrated:

- a systematic understanding of key aspects of their field of study, including acquisition of coherent and detailed knowledge, at least some of which is at or informed by, the forefront of defined aspects of a discipline
- an ability to deploy accurately established techniques of analysis and enquiry within a discipline
- conceptual understanding that enables the student:
 - to devise and sustain arguments, and/or to solve problems, using ideas and techniques, some of which are at the forefront of a discipline
 - to describe and comment upon particular aspects of current research, or equivalent advanced scholarship, in the discipline
- an appreciation of the uncertainty, ambiguity and limits of knowledge
- the ability to manage their own learning, and to make use of scholarly reviews and primary sources (e.g. refereed research articles and/or original materials appropriate to the discipline).'

(Source: <http://www.qaa.ac.uk/academicinfrastructure/FHEQ/EWNI08/default.asp>)

In the context of an economics programme, where in many cases students can arrive at university with no prior knowledge of the discipline, it is ambitious to think that students will be able to use ideas and techniques 'at the forefront' of the discipline after only three years of study, especially if this is really to be the aim for *all* honours students. On many programmes, the dissertation has become the prime vehicle by which students find an opportunity to become independent learners and to confront current research. For many students, the dissertation is the culmination of their undergraduate careers, and a rewarding and satisfying experience that gives them the opportunity to undertake an in-depth study of a topic that interests them. However, it can also become a traumatic and disillusioning venture for students who do not engage with the research, or who have a bad experience with some aspect of the dissertation process.

This chapter sets out to share good practice and provide guidance for co-ordinators, curriculum planners and supervisors, highlighting danger areas and providing discussion of some of the more contentious aspects of the dissertation process.

After a brief investigation of the current experience in the UK, this chapter is organised around the typical life-cycle of a dissertation, divided into a series of stages:

- laying the foundations
- topic selection
- early practicalities
- supervision
- progress monitoring
- data issues
- dissertation structure
- submission
- assessment
- academic integrity

2 The UK experience

As background to this chapter, a brief email survey was undertaken to gather information about the role of the undergraduate dissertation in economics departments across the UK. A report on this survey may be found in Appendix 1 (page17).

From the survey it seems that dissertations are a part of the majority of Economics programmes in the UK. However, there are significant differences in the way in which the dissertation module is organised, and the way that students experience the dissertation.

A particular issue is whether *all* students should be required to complete a dissertation as part of their undergraduate programme. In some institutions, the dissertation is indeed compulsory for everyone, but elsewhere it is restricted to single honours students, or to those students who obtain an average of 60% or more in their second year. The QAA's descriptor quoted above suggests that all students should receive some exposure to research, but clearly joint honours students are likely to find this more challenging than the specialists, having acquired less in-depth familiarity with either of their chosen disciplines.

Where joint honours students are required to take the dissertation, it may be necessary to adjust the expectations in terms of content. For example, whilst a single honours student with some exposure to econometrics may be expected to undertake some empirical work, it would be unreasonable to expect a joint honours (e.g. Politics and Economics) student to have the same familiarity with econometric methods.

Whether the dissertation should be limited to the better students is a moot point. On the one hand, it could be argued that weaker students should have equal access to the dissertation option; it may even be that there are some students who may achieve a better result on the dissertation where they can immerse themselves in a topic and produce a polished piece of work, than they could produce under examination conditions or in a problem-set-oriented assessment. On the other hand, experience suggests that weaker students require more supervision, and are more likely to resort to practices that breach academic integrity guidelines.

For these reasons, it may be necessary (or desirable) to provide alternative ways of exposing joint honours and weaker students to research methods. This will be discussed later in section 4.

Where the dissertation is compulsory for all students, the organisation of the module causes concern. When there are more than a hundred students requiring supervision, the load on individual staff members becomes heavy – especially given that some topic areas (and some staff members) tend to be more popular with students than others. It may then be necessary to find some way of spreading the supervision load across available staff or accommodating differences through a workload management system. Spreading the load evenly may result in inconsistency in the supervision provided, which can be very difficult to monitor effectively.

Another major impact on the dissertation has been the rise of the worldwide web, and the ease with which students are able to find material. This can lead to excessive reliance on sites such as Wikipedia, and makes it imperative to be able to monitor standards of academic integrity. Almost all of the survey respondents reported using TurnitinUK, whether as routine for all dissertations submitted, for a random sample or for suspect cases. The traditional remedy of holding vivas for all student dissertations becomes extremely costly when large numbers of students are involved (one institution reported that more than 500 dissertations are submitted in a typical year). Nonetheless, this practice appears to have survived in some economics departments.

3 The dissertation life-cycle

3.1 Laying the foundations

There is a sense in which the whole of learning and teaching in a programme can be seen as preparation for the dissertation, as it provides the opportunity for students to draw upon the range of material that they have studied during their programme. However, the dissertation is a very different exercise from anything else that they will have been required to undertake and specific preparation is needed.

First, some training in research skills will need to be provided. This may or may not take place as part of a specific module within the programme that is devoted to preparation for the dissertation. This needs to include general discussion of research in economics, and the ways in which economists undertake research and scholarship. It is important to remember that this is likely to be a wholly new experience for most students, who may be well drilled in problem solving and mathematical exercises, but who may not have had much exposure to the practicalities of economic research. The booklets by Greenlaw (2006) and Neugeboren (2005) may be useful references for students at this stage of the process.

Included in this research training it is important to provide some guidance in library skills and the use of evidence in economics research. Being able to evaluate evidence, to weigh up the importance of a set of results and to be aware of the limitations of the evidence produced are challenging skills for students to develop.

There are different approaches to providing such research methods training. It may be that library staff will be able to provide sessions in library skills. It may be wise to incentivise students by awarding a small percentage of the dissertation marks for a library skills exercise. For example, students could be required to undertake an online literature search related to their chosen topic and produce a preliminary reading list. This has the added benefit for forcing them to start their research at an early stage of proceedings.

Depending on programme structure, some students may have had extensive exposure to statistical and econometric methods, so may be accustomed to handling data and interpreting results. However, there may still be a difference between running some regressions in response to a specific exercise during an econometrics module and devising a model to allow testing of a specific hypothesis.

Where students have not been exposed to econometrics, this will clearly affect the scope of research that they can undertake. It may be that they are restricted to a theoretical approach or a literature review style of project, or that they need to find alternative ways of presenting evidence. Where there is a mixture of single and joint honours students it may well be that there are students working on similar topic areas, some of whom know some econometrics and others not. This can create particular pressures on the joint honours students, who may feel obliged to try to use techniques with which they are unfamiliar. This is almost always disastrous. It also becomes important that the skills base of students is taken into account during the assessment process, so that students without training in econometrics are not unduly penalised by markers.

It is increasingly crucial to provide clear guidance on academic integrity at an early juncture. Section 3.10 explores this issue in more depth.

Where there are large numbers of international students, support may need to be provided in academic writing. Indeed, such support may be necessary more generally, given that so many economics assessments are based on problem sets and exercises, rather than on extended continuous prose. There is some evidence that the writing skills of UK students may also need to be further developed in this context.

3.2 Topic selection

From a student perspective, finding a topic for the dissertation is a critical step. One of the key strengths of the dissertation is its capacity to engage the student by arousing interest and motivating through a sense of discovery. However, it can also be a stressful part of the process, especially for some weaker students who may not have strong ideas about topics that might inspire interest, and who may be daunted by the prospect of undertaking the task. Failure to find the right topic can be a recipe for a weak dissertation that does not fulfil the intended outcomes.

When the numbers of students looking for dissertation topics are relatively small, then it may be that students can be left to choose their own topics – probably subject to the availability of an appropriate supervisor or the submission of a coherent research proposal. With large numbers of students, this *laissez-faire* approach may not be feasible.

An alternative approach is to provide students with a list of topics from which they can choose. These topics may be closely circumscribed, or may simply offer a general topic area, leaving the student to focus on a specific research question within that topic area.

The advantage of providing very general topics is that that it leaves the responsibility of formulating a specific research question with the student. This is a key part of research in economics, of course, so it is good (albeit challenging) for the student to have to think about how to go about it. It also has the benefit of giving the student ownership of the question to be investigated, which helps to provide motivation.

One sample list of topics is available in Appendix 2 (page 21). This list was issued at a university at which there were about 150 students looking for topics. Each member of academic staff was asked to provide a number of topics. As you can see from the list, some provided very specific topics, such as ‘Does the Mexican anti-poverty programme Progresa have an impact on secondary school enrolment?’ However, most topics are defined in such a way as to allow a range of possible research questions. For example, ‘Child labour in LDCs’, ‘Corporate governance’ or ‘Oligopoly’ each allows a wide variety of possible approaches to be used and issues to be explored.

In the university represented by the sample list above, students can submit their preferences through a webpage, and are asked to specify their top four choices and rank them. Students are then allocated to topics and supervisors, with no guarantee that they will get their first choice – depending on whether certain topics are over-subscribed.

It may be important to ensure that topics on offer are regularly refreshed, especially where past dissertations are made available to current students. If the same topics appear for too many successive years, there may be the obvious danger of plagiarism. Even where this does not extend to actual copying, there is the danger that students will simply adopt the same dissertation structure as used by previous students rather than working through this part of the process on their own.

TOP TIPS

“Where there are large numbers of students, topic choice can be handled online.”

3.3 Some early practicalities

Increasingly, legislation is impinging on the dissertation process, and students may all now be required to complete risk assessments before they start their research. The impetus from this comes from Health and Safety legislation in place since 1992, and universities are now beginning to require such assessments for undergraduate and postgraduate students undertaking research. The need for this is perhaps more obvious where students are carrying out experiments in the physical sciences, but may also be important in the social sciences. There may also be a need to seek ethics approval, especially where research involves the use of human subjects.

Given that most economics dissertations tend to be desk studies that do not involve the use of human subjects, the bureaucracy may be viewed as superfluous. Nonetheless, compliance with the law is seen by most institutions as being essential. This may be especially important where economics as a discipline is part of a wider School of Social Sciences. Sociologists who decide to interview local drug dealers as part of their dissertation research clearly face rather different risks and ethical issues than an economist who decides to estimate a consumption function from macro data.

Sample forms can be seen in Appendix 3 (page 24). The ethics form is designed for a School of Social Sciences. The expectation is that the vast majority of economics projects will qualify to skip from question 1 to question 15, thus minimising the paperwork whilst still complying with the demands of the legislation.

Given the requirements of the Data Protection Act, it is also advisable to ask students to give permission for their completed dissertations to be made available within the university for succeeding generations of students. This then allows a database of previous dissertations to be mounted on an internal website or a Virtual Learning Environment (VLE) such as Blackboard or WebCT.

It is also important at the outset to be absolutely clear about some aspects of the dissertation. In particular, students seem to get very exercised about word length. In many UK undergraduate economics programmes, the dissertation counts as a double module in the final year – typically 30 CATS, or a quarter of the assessment for the year. Given the importance of this piece of work

Top Tips on the word limit:

- Be explicit from the start about what is included and not included in the word count. When students get near to submission time, the chances are that they will be hitting the limit, and will want to exclude as much as possible from the count. To remove ambiguity, it is wise to be clear.
- Provide a list of what can be omitted from the word count, for example:
 - Title page
 - Abstract
 - Table of contents
 - Bibliography
 - Figures (i.e. diagrams, maps)
 - Tables of data
- Prohibit the widespread use of appendices – otherwise, students will simply carve chunks of material out of the main text and stash it away at the back in the hope that it will not count. Make it clear that appendices will be part of the word count (perhaps allowing some appendices to be exempt, e.g. raw data, with the express permission of the supervisor).
- Then state that everything else counts. Students will still find questions to ask (what about footnotes?), but if you have been explicit you will be on reasonably firm ground – and you can point out that the rules are the same for everyone.
- In order to enforce the word limit, you will probably need to impose penalties for exceeding it. A sliding scale is probably best – say, 1 percentage point per 100 words (or part thereof) by which the dissertation exceeds the limit. This provides students with the incentive to learn to be selective and to avoid waffle in presenting their report. And it seems to work!

(especially where the final year carries a heavy weight), it is probably appropriate for the dissertation to carry a word length of 7,500 to 10,000 words.

3.4 Supervision

The provision of good supervision is crucial to the success of the dissertation. In many institutions facing increasing student numbers, the amount of contact between staff and students on a one-to-one basis is in decline. Indeed, it may be that the supervision of the dissertation provides the single most important opportunity for students to interact on a personal basis with a member of the academic staff. Some students may be intimidated by this, but if the relationship works, it can be mutually rewarding as an educational experience.

As in many other areas of learning and teaching, it is important to manage student expectations of the supervision process. It is helpful for students to be told clearly what they can expect from their supervisor. This may be expressed in terms of an entitlement, rather than being left open-ended. Such an entitlement could be expressed in terms of a number of meetings that each student is entitled to have with their supervisor or it could be expressed in hours. Experience with operating such a system is that although some students may request assistance above their entitlement – and this need not be prohibited within the scheme – others may choose not to avail themselves of their full entitlement. In the context of encouraging students to become independent learners, it may not be desirable to insist that all students attend for a given number

of sessions. It is this that makes the entitlement system an attractive way of specifying what is the normal expectation for supervisory contact.

Such an approach has the added benefit of helping to manage the supervisors' expectations of the process. Supervisors need to know what is expected of them in terms of reading drafts, marking, length and frequency of meetings, and so on. It is also crucial that both supervisors and students have the *same* expectations of what is involved. Being explicit about this is thus crucial for both groups.

Achieving consistency of supervision provision is one of the challenges, especially when large numbers of students are in need of supervision. Just as some students may need more help than others, it is also important to be aware that some supervisors may be more comfortable in the role than others, or more prepared to make themselves available.

It is also common for certain topic areas to be more popular than others – and for some supervisors to be more popular than others. If unregulated, this can lead to a situation in which some members of staff find that they have much heavier loads than their colleagues.

Some fair way of allocating supervisory responsibilities may thus be needed. One possibility is to ensure that supervisory loads are recognised as part of a workload management system, in which there is a trade-off between supervisory responsibilities and other forms of teaching contact. An alternative is to allocate loads evenly across available staff. This may require allocating students to topics that are not their first choice, or requiring supervisors to oversee topics of which they have little specialist knowledge. This needs to be monitored carefully to safeguard the student experience. However, at the undergraduate level, specialist knowledge of topic areas may be less crucial than at masters' or doctoral level.

There may be benefits from group supervision of students following similar topics, not only in terms of economies of scale, but also because the students may be able to learn from each other. Economies of scale may arise because much of the advice given to students will be common – the central importance of economic analysis, the need for a literature review, the interpretation of evidence, how to avoid plagiarism and so on.

In some institutions, this is taken one step further, through the provision of a whole module (normally in the second year) that deals with research methods. The economies of scale in doing

Example

At my university, each supervisor is responsible for about six students. A colleague and I supervise projects in the area of development, and for the past few years we have met with our supervisees as a group. Typically, we hold four meetings.

The first meeting takes place at the end of year 2, when the students have been allocated their topics. This is a preliminary briefing meeting, at which we answer questions and concerns, highlight some key relevant readings and data sources, and explain how we propose to conduct the supervision. Some preliminary explanation of how to structure a good dissertation is also provided, together with some discussion of what is meant by academic integrity.

The second meeting takes place early in the final year. At this meeting each student is asked to talk about their topic, outline their progress to date, identify their research question (if they have formulated it) and comment on any problem areas that they have encountered.

The third meeting takes place towards the end of the first term. By this time, they will have been required to submit an interim report, in which they sketch out their proposed research, including an explanation of their research question, and the methodology that they propose to use in order to investigate their question. This is an opportunity for us to

...continued over

provide feedback on their progress so far, to suggest future directions and to identify potential problems.

The fourth meeting takes place towards the end of the second term. Before this meeting, each student will have been invited to submit an extract from the first chapter, including their explanation of their research question. In the meeting, we comment on writing styles and referencing, and provide an opportunity for questions. The importance of maintaining standards of academic integrity is stressed.

Students are also encouraged to meet us on a one-to-one basis if they have questions that are specific to their own research.

this are even greater, of course, as one individual (or a relatively small number of staff) can provide the generic advice that all students need in approaching the dissertation. Such dedicated modules are not always popular with students, who may see the material as being fragmented and of little relevance to them at the time. In other words, they may need to be convinced that they really will need this material at a later stage. Such modules are not always popular with the staff either. They may not be appealing to teach, but also put pressure on the curriculum. When so much other material has to be covered in the second year, there may be a reluctance to use up a whole module on research methods that could have been used to provide micro theory or econometrics.

3.5 Early progress monitoring and the dangers of the last minute rush

A frequent complaint about students undertaking undergraduate dissertations is that they leave everything until the last minute. The pressures of other coursework items and mid-term or mid-year examinations may encourage students to devote their time to these, as the dissertation seems less urgent.

There are various ways of trying to encourage students to start work on their research early, and not rely on a late rush. It may be worth drawing an analogy in early discussions with them. Few students would think of arriving at an exam with only a few minutes to go, and thus finding they have no time to answer the questions. So, why should they think they can fritter away their dissertation time and start work on it when it is too late to do it justice?

However, as economists, we understand about incentives, and thus realise that exhortation alone will not suffice. We need to provide good incentives if we expect students to start work early.

One possibility is to require students to give a presentation of their intended research at an early stage of proceedings. This could be a presentation to their peers with a member of academic staff present. It would even be possible to designate a discussant for each presentation or for a small percentage of the overall mark to be attached to it. However, as soon as numbers begin to grow, this option begins to become very costly in time and effort. Ensuring consistency in the assessment becomes problematic – although if it is a very small percentage of the overall mark, this may be less crucial. If the presentation becomes more than a small percentage, then the logistics of enabling appropriate external examining becomes a potential issue.

An alternative is to introduce an interim report or research proposal that has to be submitted at an early stage. Again, attaching a modest percentage of the overall marks to this report has good incentive effects, and provides an early check to identify students that are not engaging with the process, or who have unrealistic grandiose plans for solving the world's problems in 10,000 words. It is also a good opportunity to provide formal feedback – an important consideration when the paucity of feedback is a common criticism emerging from questionnaire surveys.

It may be helpful to ask students to submit draft material (or even chapters) to provide a framework for discussion in supervisory meetings – and to do so *before* the meeting takes place. There is nothing worse than having a student arrive to discuss their work clutching their precious draft, only to find that the time is mainly spent in the supervisor reading it, rather than being able to discuss it. It should be made clear that this is not for the purpose of proof-reading, which is not the supervisor's responsibility. It may be worth setting a timetable for such discussions at the beginning of the year – which then forces the student into a regular schedule of work. Of course, your institution's rules may prohibit the reading of draft material. You may also think that it is possible to go too far in helping the student, as this may militate against encouraging independent work and time management. However, it can make for more productive supervisory meetings – and anything that highlights that you are providing *feedback* may pay dividends in national student surveys.

3.6 Data issues

The other task that must be tackled at an early stage is data hunting. Students embarking on empirical work – probably for the first time – almost always have over-optimistic views of the data that are likely to be available. Perhaps a student has been to a course in development economics that has stressed the importance of human capital formation in stimulating improvements in agricultural productivity. An interesting project might be to examine the effect of primary schooling on agricultural productivity in rural Zanzibar. Or to examine the effect of overseas assistance on the provision of health care in Papua New Guinea. Panic then sets in when it transpires that, with only a few weeks remaining, there are no data to be found.

Again, this is partly a question of managing student expectations – and of getting students to hunt for their data as early as possible.

Of course, there is a time inconsistency problem here. We tell the students that they must look for data as soon as possible... but we also tell them that they should think about the underlying economics of their topic first, in order that they know what data they will require. Without this proviso, the danger of data-mining is high. Students told to look for data early may well see what they can find, run a few regressions and then see if they can find a theory that will match their results.

The availability of data via the internet has increased dramatically in recent years. This brings good and bad news. The good news is that there are more data accessible on a wide range of economic topics that students can readily obtain. This expands the range of topics on which they can undertake empirical work – and they are aided and abetted in this by the software at their disposal to enable them to produce lots of results. The bad news is that the scope for doing foolish things and getting nonsense results is also much expanded. The ease of use of today's software makes it very easy to produce results that go way beyond the competence and understanding of the students. Indeed, a key part of the supervisor's role may be to rein in the over-enthusiastic student to ensure that the work undertaken is appropriate for the topic being investigated, and the reasonable ambition of the student given knowledge and understanding of statistical and/or econometric methodology. This reining in has to be done in a sensitive way, so as not to discourage or dishearten. A fine line to tread.

Providing web links to key recommended data sources is wise. This can be accomplished through a dedicated dissertation webpage or VLE. The links can then be tailored to the needs of a particular cohort of students. There is also a helpful section on the Economics Network website that provides links to freely available data. This can be found at http://www.economicsnetwork.ac.uk/links/data_free.htm .

TOP TIPS

"Provide web links to the most relevant data sources."

One obvious situation in which this can be an issue is where a student has received no training in econometrics, but has heard of ‘regression’ and perceives that no dissertation is complete without it. There may be some bright students out there who can teach themselves regression along the way and produce sensible results. But for every one such student, there are likely to be countless others who will be unable to produce coherent results. For the econometrically untrained, more modest objectives need to be set for the analysis of empirical data. However, the collection of data, and the marshalling of evidence in support (or not) of an hypothesis, is a central part of research in economics.

Another pitfall is where a student with some econometric training collects data and runs some regressions, but is unable to produce results that are consistent with any known economic theory. Panic then sets in. Can economic theory really be so wrong? It takes confidence for a novice researcher to look at a set of seemingly meaningless results with equanimity. It may then be for the supervisor to reassure, and to point out how many possible explanations there are for seemingly contradictory results. Perhaps the data do not measure what the model demands. Perhaps a more sophisticated econometric methodology is required. Perhaps there are omitted variables. And so on. The student researcher may then need to be persuaded that it is perfectly OK to present weak results, so long as some awareness is shown that the analysis has limitations, and that there are many possible reasons for the seeming contradictions.

“The secret of happiness lay in limiting the aspirations.”
Thomas Hardy in *The Woodlanders*.”

It may be worth reminding the student of the key objective of the dissertation – namely, to showcase what they have assimilated during their degree programme. If they can show competence in applying economic analysis and (perhaps) econometric techniques in a topic area of their choice, then they are on their way to a reasonable mark. They will not be submitting their dissertation to *Econometrica*.

3.7 Dissertation content and structure

Students who have spent most of their undergraduate careers solving problems and tackling exercises are likely to need specific help in constructing a coherent argument through continuous prose and appropriate structuring of material. Furthermore, the dissertation will require them to move beyond the descriptive to analysis and evaluation. These are also key skills that may only be developed through the dissertation in many economics undergraduate programmes.

There are several guides available providing advice to students on how to structure a report on a piece of economic research (e.g. Neugeboren (2005); Greenlaw (2006)).

A typical structure	
Introduction	pose an interesting question or problem
Literature review	survey the literature on your topic
Methods/data	formulate your hypothesis and describe your data
Results	present your results with the help of graphs and charts
Discussion	critique your method and/or discuss any policy implications
Conclusions	summarise what you have done; pose questions for further research
<i>From Neugeboren (2005)</i>	

Students need further guidance to keep an appropriate balance between the key components. The temptation is to use up too many words in the early sections in introducing the topic and describing the background. This is especially tempting in relation to some projects. For example, a student investigating a question in the context of a particular country may begin by describing

the economic conditions of that country, so that the report comes to resemble something more appropriate for economic history or geography than economics. On the other hand, there may be a temptation to take some of the economic analysis for granted, thus missing the opportunity to demonstrate knowledge and understanding of economic analysis and thereby showcasing their skills to the examiner. This question of knowing what to include and what to omit is a tricky one, and an area in which supervisors will need to be ready to offer guidance. Another challenge is for students to be evaluative and analytic, going beyond description.

At the outset, students often find it intimidating to launch themselves on writing an 8,000 or 10,000 word report. It is important to find a way of overcoming this. One way is to encourage students to draw up a chapter plan at an early stage. This could be based on the general pattern set out above, with the students being asked to draft a few sentences describing the intended content of each chapter, and a target word count. This has the advantage of breaking the overall task into a sequence of shorter pieces of work, which may be less intimidating. Making some examples of previous dissertations available for students to consult may also be helpful, as they are able to see what can be achieved, as well as getting a feel for how to structure a long report.

3.8 Submission

Another danger point comes at submission time. Be clear about the conditions under which an extension might be granted and how this might be authorised. In addition, be clear about the conditions in which an extension will not be granted. For example, you might want to be explicit that extensions will not be granted for frivolous reasons or because ‘my computer crashed’. There are good reasons for being strict about this. One of the skills that students derive from producing a dissertation is project management. Meeting deadlines will give students the opportunity to practise time management. A student who does not understand the need to keep back-up copies of files will have a rude awakening in the world of work. Furthermore, a student granted an extension is likely to find that there are knock-on effects in terms of exam preparation.

TOP TIPS

“Make sure there is no ambiguity about the deadline for submission and the penalties for missing it.”

3.9 Assessment

Assessment is a crucial part of the dissertation process and entails a number of problematic issues.

It is important that students have a clear idea of what is expected of them in producing a dissertation. Unlike the problem sets and exercises that characterise much of assessment in economics, there cannot be a specific mark scheme for the dissertation. However, it is possible to provide a set of grade descriptors designed for the dissertation, showing the characteristics that markers will be looking for in allocating marks to the final product. This helps in forming student expectations and provides transparency. A sample set of descriptors is shown in Appendix 4 (page 25).

There is no universal agreement that this approach is desirable. It has been argued that marking to descriptors enforces too much conformity and inhibits markers from examining with their own personal and professional judgement. However, this may be an argument for framing the descriptors in such a way that they are not overly prescriptive, but yet identify the intended outcomes on which the assessment of the dissertation should be based. When large numbers of students are involved, it may be that personal and professional judgement has to be harnessed in order to ensure equity in treatment.

Another way of trying to manage student expectations is through some element of peer- or self-assessment – not necessarily as part of the summative assessment. For example, students could be encouraged to evaluate a fellow student’s research proposal or presentation. Alternatively, a self-assessment checklist could be required as part of the dissertation submission, itemising key aspects of the dissertation. A sample self-assessment form is available through [{link to file 6 Self assessment form}](#)

Students may also gain confidence in their work if some portion of the summative assessment is derived from interim pieces of work, such as the research proposal, a presentation or library skills project. This can also incentivise students to manage their time and receive feedback on how they are progressing.

TOP TIPS

“The nature of the dissertation is such that it is difficult to maintain anonymity in the marking, so this is one type of assessment where double-blind marking must be retained, rather than some form of sample moderation process.”

Achieving consistency in assessment is challenging, especially where the number of dissertations to be marked is large so that marking has to be spread between a relatively large number of staff members. Consistency is also difficult because of the wide range of dissertation topics that is possible. The use of descriptors can help here, as they are cast in general terms that do not vary across topics. The danger is that some markers will be more diligent than others in giving marks based on the descriptors.

Where the economics dissertation can be taken by both single honours students and those following joint honours, it is important for markers to be aware of what is reasonable for particular students to produce. A politics and economics student should not be penalised for avoiding econometric work, nor should a single honours economics student be penalised for lacking background in political science.

One of the issues on which practice varies between universities is the question of whether the supervisor should or should not be one of the markers of the dissertation. Some argue that the supervisor should be excluded from the assessment process in order to ensure independence of the marking, whereas others argue that the supervisor is able to identify the extent to which the student had received assistance as part of the supervisory process. Consistency may be more likely where marking is organised to mix up the pairings of first and second markers.

3.10 Academic integrity

Given the rise of the internet, it has become impossible to discuss undergraduate dissertations without also discussing the greater opportunities for student plagiarism. The internet provides students with access to a vast range of material, and anecdotal evidence suggests that many students arrive at university with at best a sketchy understanding of methods of scholarship and standards of academic integrity.

Inculcating a sense of what constitutes academic integrity at an early stage in the degree programme is critical. This approach – stressing that there are expected standards for student work – is to be preferred to instructing students simply to ‘avoid plagiarism’. The notion of avoiding plagiarism is almost tantamount to telling students not to get caught, whereas setting expected standards is a more positive tack to take.

The importance of academic integrity is reflected in the fact that there is a whole chapter in this Handbook by Jeremy Williams devoted to the topic. The detail of this discussion will not be repeated here, where the focus will be on academic integrity in the dissertation.

Jeremy Williams identifies three types of plagiarist. The ‘lazy plagiarist’ takes the work of another author and puts his or her own name to it, and may use a ‘cheat’ site in order to purchase a dissertation or part thereof. The ‘cunning plagiarist’ uses the work of another author or authors, but changes things sufficiently to avoid detection. ‘Cut-and-paste’ characterises this approach. The ‘accidental plagiarist’ does not even realise that they are plagiarising – for

example, they may have taken notes on a journal article in the early stages of their research without realising that they were simply noting down the original author's words. They then construct their dissertation from those notes. In some cases, students from a Confucian tradition may believe that in reproducing the words of the experts they are paying them a compliment, and may find it culturally difficult to criticise or even amend what has been printed in a textbook. The use of anti-plagiarism software will throw up examples of all three types.

In the email survey of UK economics departments, most made use of TurnitinUK as a way of identifying whether plagiarism has taken place. The convenience of this is that a dissertation submitted via a VLE can be automatically screened for overlap with TurnitinUK's growing database. The disadvantage is that the output produced by the software requires very careful interpretation. The software produces a *Similarity Index (SI)*, which quantifies the degree of overlap with material in the database. A high SI does not necessarily indicate plagiarism, but it does help to highlight which dissertation submissions are suspicious.

An important practical point to remember is that when students submit their dissertation they should not only be asked to sign a declaration stating that the work is their own, but also that they understand what is meant by academic integrity and that their dissertation will be checked by TurnitinUK.

Sample declaration for students to sign on submission:

I understand that by signing the declaration below, I have read and accepted the following statements:

- I have read and understood the University's Academic Integrity Statement for Students, including the information on practice to avoid given the Statement and that in the attached submission I have worked within the expectations of this Statement.
- I am aware that failure to act in accordance with the Academic Integrity Statement for Students may lead to the imposition of penalties which, for the most serious cases, may include termination of the programme.

I consent to the University copying and distributing any or all of my work in any form and using third parties (who may be based outside the EU/EEA). This may include the use of anti-plagiarism software (e.g. TurnitinUK) to verify whether my work contains plagiarised material, and for quality assurance purposes.

More difficult to detect is where students commission a third party to produce their dissertation for them – either to order, or off the peg from subscription websites. TurnitinUK may or may not identify these cases, although I have known one case where the dissertation that had been purchased was picked up because some paragraphs from it were used as an advert on the website, and were thus caught by TurnitinUK. The risks of being caught may be lower for this form of cheating – but in many universities the penalties are likely to be more severe.

An important part of the fight for academic integrity is to make sure that all supervisors are familiar with your university's procedures for dealing with breaches of academic integrity, and with how to interpret the TurnitinUK output. This is a key part of ensuring consistency in supervision and equity of treatment across students. It is wise to make sure that the general principles of academic integrity are covered in joint sessions to all students, rather than this being left as part of the responsibility of the individual supervisor. Student handbooks also need to carry clear guidance on your institution's policies and procedures.

More discussion on academic integrity may be found in the Handbook chapter by Jeremy Williams.

Encouraging good academic practice

Find a brief paper written by a member of staff in the department and submit it to TurnitinUK. Then hack the article about. Include some quotations (some with, some without quotation marks), paraphrase some passages, introduce some new material. Submit the revised version to TurnitinUK.

Arrange a session for all students writing a dissertation, and show them the TurnitinUK output on the amended version. Let them see what we see as examiners. Point out the key examples of bad practice that we can readily recognise.

This exercise can have a dramatic effect. In one academic year, I (as the School's Academic Integrity Officer) had to investigate 10 breaches of academic integrity in economics dissertations. Penalties were imposed in all cases. The following year, having demonstrated the examiner's eye view of the TurnitinUK output, not one single case emerged.

4. An alternative to the dissertation?

If it is accepted that all honours students should be exposed to 'current research, or equivalent advanced scholarship, in the discipline...' (QAA), then can the dissertation be avoided?

It could be argued that if we provide *research-led teaching*, then this in itself ensures that students will fit the bill in terms of exposure to research. But what do we mean by 'research-led teaching'? Does it mean that academic staff are given the opportunity to teach in their specialist research areas? Is that enough? How do we ensure that students engage with this process? If we cannot be sure about the answer to these questions, then is the dissertation the only solution?

To some extent, a research-led approach can be embedded within the normal curriculum. Modules can be designed in such a way as to enhance the students' ability to develop critical and evaluative thinking skills and thereby support and promote independent learning. This approach can be reinforced by a research-led approach to assessment and may be most straightforward in econometric or other quantitative methods modules, where students can be required to find, analyse and interpret their own data. A similar approach can be adopted for other modules. A development economics module can require students to prepare a report on a particular country; students could be required to evaluate a recent report from the OFT or Competition Commission. Such exercises can encourage and engender a sense of discovery and engage students in a reflective and self-critical process. There is much more discussion on undergraduate research in economics in KimMarie Goldrick's chapter in this Handbook.

An alternative approach would be to run a seminar or tutorial-based module, in which students are required to provide critical evaluation of recent research, probably through the vehicle of appropriate journal articles. This sort of exercise can also provide students with the opportunity to develop their presentation skills, and could be part of a module that also includes sessions on aspects of research in economics.

5 Assessment strategies

A well-organised dissertation can be the most rewarding part of the student experience. However, this may require careful thought and planning if it is not to turn into a nightmare. Here are some key points to remember as the dissertation life-cycle unfolds:

- Think about how research training will be provided
- Ensure that students are guided towards a feasible topic
- Be aware of the legislative context
- Give early rules on word length
- Manage student and supervisor expectations of the supervisory process
- Look for a coherent way of allocating students to supervisors
- Set intermediate targets to prevent students leaving too much to the last minute
- Be aware of data issues
- Provide guidance in terms of how to structure a dissertation
- Offer clear guidelines for the assessment process, so that students know what is expected of them
- Be unambiguous in setting deadlines and the rules for extensions
- Explain academic integrity and monitor adherence

Students can benefit greatly from undertaking a dissertation. The process can capture their interest and give them confidence to engage in independent work. The finished product can be used to sell their abilities to potential employers, by showcasing their skills. Supervisors can add to the experience by making sure that students are aware of these benefits. Furthermore, students often enjoy their dissertation work.

6 References

Greenlaw, S. A. (2006) *Doing Economics: A guide to carrying out economic research*. Boston: Houghton Mifflin.

Neugeboren, R. (2005) *The Student's Guide to Writing Economics*. London: Routledge.

Other chapters in the *Handbook for Economics Lecturers* augment this guide. In particular:

KimMarie McGoldrick, *Undergraduate Research in Economics*

Jeremy B. Williams, *Plagiarism: Deterrence, Detection and Prevention*

7 Appendices

Appendix 1: The undergraduate dissertation in UG economics in the UK: A brief survey

This report summarises the findings of a brief email survey of UK Economics departments concerning the role of the dissertation or research project in undergraduate programmes. The survey was carried out in the Spring of 2008, disseminated by the Higher Education Academy Economics Network. Responses were received from 21 of the 92 institutions contacted (23%).

Is there a dissertation/research project element in your undergraduate programme?

18 of the 21 respondents indicated that their programmes do contain a dissertation element in the final year of the undergraduate degree programme.

One institution has chosen to replace the dissertation with a synoptic module assessed at the end of the final semester, success in this is required if a student is to achieve Honours. This module engages students in the process of research, but in a more managed environment, with closer supervision and with a Personal Development Planning (PDP) element built into it. Better students can apply to take an independent study option in the final year, but this is a shorter piece of work than a dissertation. The reason for the change was to avoid the problems caused by students who left matters until the last minute. It also helps to reduce the extent to which students can plagiarise, as students are more closely supervised within class, and the smaller components of the assessment are less easy to plagiarise than the narrative of a dissertation.

Two institutions had no dissertation element in the programmes. One of these had dropped the dissertation because of the excessive staff time required. The other had set up a working group to consider adding a dissertation element to the programme.

CATS rating

The Credit Accumulation and Transfer System was established to enable students to accumulate credit that in principle could be transferred between institutions. In a typical modular programme, a year's study would entail 120 CATS. Thus, in an eight-module structure, each module would carry 15 CATS. This question was thus designed to evaluate the relative weighting of the dissertation in the final year of study. Where responses indicated the proportion of the final year attributed to the dissertation, the CATS equivalent has been calculated, with the following pattern emerging:

	No of responses
15 CATS	1
20	3
24	1
30	7
30 this year 40 next	1
40	2
Not stated	3

Is the unit compulsory for all students?

The dissertation was compulsory for all students at 11 responding institutions, and an option in three. For four other institutions, the dissertation was compulsory only for a subset of students. In some cases, this meant that the dissertation was only compulsory for single honours students, but joint honours students were not required to take it. Elsewhere, only students achieving a certain standard (e.g. Upper Second) could take the dissertation component.

How many students per year take the dissertation?

Numbers varied substantially, from ‘about one every other year’ to ‘500+’.

Number of students	Number of responses
<10	1
10-49	5
50-99	5
100-199	4
>200	1
Not specified	2

What is the typical number of students supervised by each member of staff?

Number of supervisees	Number of responses
0-4	8
5-10	5
15	1
Variable	3

Is the supervision load spread evenly across staff members?

Most institutions make an attempt to spread the load evenly although this may be less of an issue where student numbers are relatively low. It was noted that problems sometimes arose where some topics were especially popular with students, which tended to put some supervisors in high demand, leaving others with less supervision to carry out. One institution commented that it was important not to force unwilling supervisors to take on the responsibility, as this would be detrimental to the student experience. Uneven loads were sometimes accommodated through workload management systems.

How do students select their topic?

In the majority of cases (11 responses), students were given a free choice of topics, tempered by guidance from supervisors or a dissertation coordinator. In six cases a list of topics was provided – sometimes a relatively long list of broad topic areas. Students could choose a topic not on the list provided they could find a supervisor willing to take them on.

How are students prepared for dissertation work?

Seven respondents indicated that this was mainly a matter for the supervisor, but a variety of methods were in place to assist students in preparing for the dissertation. In some cases, a dedicated module(s) was provided to train students in research methods in economics; in other cases, an introductory lecture/talk was provided. In other institutions, a handbook was provided, or a site on a Virtual Learning Environment (VLE) such as Blackboard or WebCT, with advice, guidance and links to data sets. Sample past dissertations were made available in some institutions, either in hard copy or through a VLE. Sessions providing library skills were run in some institutions. Student-led presentations and student-run groups were also mentioned.

Do you take steps to monitor standards of academic integrity?

11 respondents said that all dissertations were routinely submitted to TurnitinUK for checking, and a further three institutions submit a random sample, or dissertations under suspicion of a breach of academic integrity standards. One institution augmented TurnitinUK by double-marking; one institution relied only on double-marking to vet academic integrity standards. In another case, students have a viva (30-40 minutes), which is effective in identifying plagiarism. In one case, this was seen as purely the supervisor's responsibility; only one institution reported that no checking was carried out.

Please comment on the main strengths that you perceive for the dissertation

There was a strong consensus amongst respondents about the main strengths of the dissertation. The dissertation is seen to foster independent study, and provide students with the opportunity to study in depth a topic in which they have a strong interest. It is also seen as a beneficial educational experience, and 'the single most important piece of academic work that students undertake'. The dissertation is seen to offer a synoptic component, allowing students to draw together what they have learnt from across the curriculum. It also serves as preparation for the world of research and to have benefits in terms of employability, as the dissertation can be included in a portfolio of the student's work. The supervision process gives students contact with staff.

Please comment on the main difficulties faced in relation to the dissertation

There was less of a consensus about the difficulties than about the strengths, although a number of respondents commented that problems arose mainly with the weaker students, who tend to be costly in demands upon staff time, and who are less likely to become engaged by the dissertation process. In general, the demands on staff time were seen to be an issue, together with the difficulty of ensuring that all staff concerned in supervision provide a more-or-less consistent standard of supervision. These problems naturally escalate as numbers increase, and coping mechanisms may be needed to handle large numbers. In some cases, allocating students to supervisors becomes a burden.

It was reported that students face problems in understanding what is meant by plagiarism and in knowing how to go beyond a literature review and actually doing some research. All too often, students were beset by 'last-minute-ism', and persuading them to start early and spread the load through time seems to constitute a major challenge. This is especially problematic when

students only discover at a late stage that the data they require are not available. Some respondents also noted that in an environment where problem sets form a major part of the assessment pattern, students do not become accomplished at producing continuous prose, so embarking on such a substantial piece of work as a dissertation is a major obstacle – and this is not confined to international students whose first language is not English.

Three respondents reported no major problems – in one case because only some students take this option.

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July 2008

Appendix 2: Dissertation Topics

Topic Number	Topic Title	Topic Area
1	Why should We give to the Poor?	development
2	The New Brazilian Economy	development
3	International labour migration and LDCs	development
4	Child labour in LDCs	development
5	The impact of governance & institutions on economic development	development
6	Social networks and labour market outcomes in LDCs	development
7	Economies of eastern europe in transition	development
8	The effectiveness of Overseas Development Assistance	development
9	The economic impact of HIV/AIDS in LDCs	development
10	The effectiveness of Overseas Development Assistance	development
11	US protectionism and Chinese growth	development
12	The impact of the HIPC Initiative on poverty alleviation	development
13	Empirical modelling of house prices	econometrics
14	Modelling volatility in exchange rates	econometrics
15	Assessing the stability of import demand functions	econometrics
16	Estimating the demand for air travel	econometrics
17	Economic Freedom and Economic Growth	econometrics
18	What do significance tests prove—if anything?	econometrics
19	Evaluate the performance of the Mexican anti-poverty programme Progresa.	empirical
20	Does the Mexican anti-poverty programme Progresa have an impact on secondary school enrolment?	empirical
21	Does the Mexican anti-poverty programme Progresa crowd out private transfers from migrants?	empirical
22	Are household members altruistically linked? An examination based on the Mexican anti-poverty programme Progresa.	empirical
23	Climate Change: Economic Policy Responses	environmental
24	Environmental valuation	environmental
25	Globalization, macroeconomic performance, and the environment	environmental
26	Comparing financial systems: financial structures in UK/USA, continental Europe and Japan	finance
27	The Portfolios of the Rich: a Quantitative Approach	finance
28	International Trade and Portfolio Diversification	finance
29	Predicting GDP growth with the yield curve	finance
30	Do style investors outperform the market?	finance

...continued over

31	Corporate Governance in Europe	finance
32	Corporate governance	finance
33	Is the UK property market inefficient?	finance
34	The Phillips curve	history
35	Keynesian economics	history
36	Classical economics	history
37	A comparative analysis of competition law in EU and USA	industrial
38	Competition in the beverage industry.	industrial
39	Competition in the banking sector.	industrial
40	Property rights and patents	industrial
41	Causes and Consequences of Market Power in the UK Retail Banking Industry	industrial
42	Competition Policy and the Problem of Collusion	industrial
43	Competition Policy and Sports	industrial
44	Determinants of industrial structure	industrial
45	Oligopoly	industrial
46	Mergers and alliances	industrial
47	The political economy of competition policy	industrial
48	Competitive strategies	industrial
49	Competition in the airline industry: international airline alliances, code-sharing and low-cost companies	industrial
50	Mergers and Acquisitions: Causes and Effects	industrial
51	Competition in the Pharmaceutical Industry	industrial
52	Competition Policy	industrial
53	Behavioral Aspects of Labor Economics	labour
54	The impact of labour market institutions	labour
55	Do immigrants harm the economic outcomes of natives?	labour
56	The empirical determinants of female labour force participation	labour
57	Does educational debt affect career choices?	labour
58	Catch 22: Britain's banking regulations and Immigration	macro
59	Housing regulations, housing prices and the price level in Britain and elsewhere	macro
60	What can we learn from China's one child policy? What was its purpose? What are its consequences?	macro
61	The history of children's rights and economic consequences	macro
62	Economic growth and cycles	macro
63	The empirics of the monetary policy transmission mechanism	macro
64	Exchange rate regimes and macroeconomic performance	macro
65	Institutions, geographic endowments, and macroeconomic performance	macro
66	Growth and development: Convergence across countries	macro

...continued over

67	Housing markets: Booms and busts	macro
68	Dimensions of inequality in the UK	macro
69	The flow of funds across countries during financial crisis	macro
70	Institutions and Economic Development	macro
71	Demographic aging and its macroeconomic implications	macro
72	Economic growth and international disparities in income	macro
73	Rising individual debt and bankruptcy: macroeconomic implications	macro
74	Unemployment and wage inequality	macro
75	Intellectual property rights and the incentives to innovate	micro
76	The effects of the publication of league tables on the performance of public services	micro
77	Auctioning off public assets - economic analysis and/or case study	micro
78	Prizes are better than patents at encouraging medical research.	micro
79	Wild west economics: cattleman's associations, miner's camps	miscellaneous
80	Are accounting regulations like taxes?	miscellaneous
81	The odd performance of latin american countries in the last 50 years	miscellaneous
82	The optimal size of countries	miscellaneous
83	Charitable giving and the tax system	public
84	The economic analysis of tax evasion and tax avoidance	public
85	The impact of the tax and benefit system on wages	public
86	The economics of charitable giving	public
87	How should pensions be funded?	public
88	Should selling honours be decriminalised?	public

Appendix 3: Economics dissertation self-assessment form and checklist

Please indicate that you have checked the following:

Spelling and punctuation (inc. correct use of the apostrophe)	Y / N
References (are all sources listed, with quotes in “” marks?)	Y / N
Diagrams (labelled, integrated into the text)	Y / N
Presentation (including spacing and visual appeal)	Y / N

Please assess the following aspects of your work:

	Excellent	Good	Adequate	Poor	Not covered
Identification of research area					
Formulation of research question					
Strategy for addressing your research question					
Research methodology					
Knowledge and understanding of relevant literature					
Use of data and other evidence					
Interpretation of results					
Presentation of materia					
Presentation of findings					
Quality of argument					
Clarity of conclusions					
Referencing of sources					
Do you consider your work worth:	1st Class	Upper Second	Lower Second	Third	Fail

Appendix 4: Grade descriptors for a dissertation in economics

Area	1st (70-100%)	2.1 (60-69%)	2.2 (50-59%)	3rd (40-49%)	Fail (0-39%)
Identification of research area and formulation of research question	Introduction identifies an important research area and formulates a well-defined research question	Introduction identifies a research area and formulates a well-defined research question	Introduction either identifies a research area or formulates a research question, but limited contextualisation	Weak introduction that fails to justify the research area or identify a clearly-defined question	Very weak introduction, which fails to justify the research area or identify a research question
Strategy for addressing question	Develops well-defined and imaginative research strategy	Identifies clear strategy for addressing question	Identifies research strategy	Research strategy is poorly-identified	Little evidence of a coherent research strategy
Research methodology	Provides clear statement of methods used to obtain data, and shows a good understanding of the strengths and weaknesses of chosen methodology	Identifies methods used to obtain data and makes some attempt to evaluate their strengths and weaknesses	Identifies methods used to obtain data, but may apply these uncritically	Little attempt to explain methods used to obtain data, with little discussion of their strengths or weaknesses	Little or no attempt to explain methods used to obtain data, and little or no attempt to evaluate them
Knowledge and understanding of relevant literature	Shows good knowledge and understanding of relevant literature	Shows knowledge and understanding of relevant literature	Demonstrates some knowledge and understanding of relevant literature	Limited knowledge or understanding of relevant literature	Very limited knowledge or understanding of relevant literature
Use of data	Demonstrates ability to obtain relevant data from appropriate sources; shows competence and imagination in way data are used, and awareness of the strengths and weaknesses of the data.	Obtains relevant data from appropriate sources, shows some competence in using the data and makes some attempt to evaluate their strengths and weaknesses	Derives some data from sources, but the data obtained may be limited; comparatively little attempt is made to evaluate the strengths and weaknesses of the data	Only derives a limited amount of data, with little attempt to justify the sources or to evaluate their quality	Derives very little relevant data; little or no attempt to justify sources or evaluate their quality

...continued over

Area	1st (70-100%)	2.1 (60-69%)	2.2 (50-59%)	3rd (40-49%)	Fail (0-39%)
Interpretation of results	Clear and competent interpretation of the evidence presented, with an assessment of the strengths and weaknesses of the methods used to obtain and analyse data.	Makes a reasonable attempt to analyse and interpret the results of an analysis, shows some awareness of the limitations of the methodology	Makes some attempt to analyse the results, but with some lack of awareness of the limitations of the methodology	Limited analysis of the results and of the weaknesses of the methodology	Very limited analysis of such results as have been obtained with no awareness of the limitations of the analysis
Presentation of material	Presents material in a clear and logical manner, with a full bibliography; all items are properly referenced.	Material is generally well-organised and clearly presented. Includes a full bibliography with appropriate referencing	Material is not always clearly-presented or well-organised. Some items may be lacking from the bibliography, and references may not always be cited appropriately.	Material may be poorly-presented and badly-organised. The bibliography may be limited or incomplete and references not cited appropriately.	Material is poorly-presented and badly-organised. The bibliography is limited or incomplete, and references not cited appropriately.
Presentation of findings	Clear and accessible presentation of findings	Findings are generally clear and accessible	Findings may not always be presented in a clear or accessible manner	Findings may be poorly-presented and difficult to understand	Findings are poorly-presented and difficult to understand
Quality of argument and clarity of conclusions	Clear and logical argument, leading to appropriate and relevant conclusions. A first-class dissertation may also show an awareness of ways in which the topic or investigation may be extended further.	Clear and logical argument, leading to appropriate and relevant conclusions	Argument may not always be clearly and logically presented; conclusions may not always be supported by evidence on which they are supposed to be based.	Argument may be difficult to identify or follow	Failure to develop a clear argument