

Research Training Coursework Subjects Available by Owning School

| La Trobe Business School | | | | | |
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| Subject Code | Subject Title | Year Level | Subject Coordinator | Email | Subject Overview |
| BUS5004 | Foundations of Business Research | 5 - Masters | Clare D'Souza | C.DSouza@latrobe.edu.au | In this subject, you will learn about the epistemology of research and explore the critical role that independent research, when conducted to the highest standards, contributes to our society. You will hone your ability to undertake sophisticated literature searches and manage this body of knowledge using reference management systems in accordance with academic conventions. You will enhance your ability to analyse relevant literature to identify a research gap and develop logical and detailed justifications for your arguments. |
| BUS5006 | Research Design | 5 – Masters | Jennifer Spoor | J.Spoor@latrobe.edu.au | In this subject, you will learn about research design as the foundation for conducting high quality research. You will learn the hallmarks of social research methods, including observational, survey, and experimental designs. You will develop skills to evaluate the strengths, limitations, and ethical considerations of these designs for answering specific research questions. |
| BUS5007 | Qualitative Data Analysis | 5 – Masters | Jennifer Spoor | J.Spoor@latrobe.edu.au | This subject provides you with the opportunity to develop skills in qualitative research practice in the field of business. This involves developing an appreciation of the skills needed to collect qualitative data using appropriate methods, including interviews, focus groups, document analysis and observation. You will also learn how to analyse, interpret, and report qualitative data to a variety of audiences. |
| BUS5005 | Quantitative Data Analysis | 5 – Masters | Mahdi Vesal | M.Vesal@latrobe.edu.au | In this subject, you will explore the quantitative analysis techniques that are commonly used by business researchers, analysts and managers to analyse data to provide answers to business problems and research questions. You will develop the ability to analyse, interpret and report quantitative data, using justifiable univariate and multivariate methods. |
| BUS5008 | Econometrics and Data Analytics | 5 – Masters | Rui Xue | R.Xue@latrobe.edu.au | In this subject, you will enhance your proficiency in quantitative data analysis while acquiring quantitative techniques commonly used in business. These skills will enable you to effectively address critical research inquiries and make informed strategic |

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| | | | | | choices. The curriculum encompasses various topics like time-series modelling and panel data analysis. Moreover, you will delve into the realm of data mining and machine learning, acquiring hands-on experience with software tools. This subject will provide you with the expertise and competence to apply econometrics and data analytics techniques in academic research and business scenarios. |
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| La Trobe Law School | | | | | |
| Subject Code | Subject Title | Year Level | Subject Coordinator | Email | Subject Overview |
| LAW5PMI | Legal Process, Methods and Institutions | 5 – Masters | Derya Siva | D.Siva@latrobe.edu.au | Legal Process, Methods and Institutions introduces you to the study of law, the core legal institutions and sources of law in the Australia. The subject places the study of law in the context of legal practice, legal theory and issues of justice. You will develop essential skills for studying law including case analysis, legal problem solving, legal research and written and oral communication. The subject examines what is law and explores the social context in which law operates. Topics include the doctrine of precedent, joining the legal profession (including industry informed career development learning activities to support setting goals for personal and professional development), First Nations peoples and the law and current problems of access to justice. |
| LAW5LRE | Legal Theory and Methodology | 5 – Masters | Magda Karagiannakis | M.Karagiannakis@latrobe.edu.au | In this subject students will enhance skills in advanced legal research and writing methods. Students will be introduced to a range of socio-legal research methods and techniques, and theoretical approaches to legal scholarship. The subject gives students the opportunity to apply these skills and theoretical frameworks to a number of legal topics. |

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| La Trobe Rural Health School | | | | | |
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| Subject Code | Subject Title | Year Level | Subject Coordinator | Email | Subject Overview |
| RMD5MGR | Methods for Graduate Research | 5 – Masters | Sean MacDermott | S.MacDermott@latrobe.edu.au | In this subject, students will learn how to develop and refine research questions select appropriate research designs and develop analyses for quantitative, qualitative and mixed methods studies. This subject is designed specifically for Graduate Researchers, therefore emphasis will be placed on evaluating the appropriateness of research questions, and associated methods and analysis for their research thesis. |
| EXS5RES | Research Study | 5 – Masters | Jayden Hunter | J.Hunter@latrobe.edu.au | In this subject, you will develop professional practice as an allied health professional by using research to inform clinical reasoning. This subject aims to develop your research skills and apply discipline-specific knowledge and techniques to address a clinically relevant question. Both individually and as part of a small group, you will work on a research project that will include: planning, project management, data collection/cleaning, data analysis, critical interpretation/evaluation and dissemination of findings. These are essential skills to support evidence-based clinical practice. You will be expected to work independently in self-directed learning. |
| School of Agriculture, Biomedicine and Environment | | | | | |
| Subject Code | Subject Title | Year Level | Subject Coordinator | Email | Subject Overview |
| BIO5SIS | Skills in Science | 5 – Masters | Julian Pakay | J.Pakay@latrobe.edu.au | This subject provides students with the opportunity to develop their skills in critical analysis, problem solving and data analysis and presentation. The subject will use published journal articles together with a range of scientific problems to support learning of these skills. The subject does not contain a practical component but complements practical subjects and thesis writing subjects through the analysis of data and experimental design components. These skills form an essential part of any upper level scientific study program. In completing tasks for this subject, |

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| | | | | | students are expected to draw on their prior learning and experiences in scientific problem solving. |
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| School of Allied Health, Human Services and Sport | | | | | |
| Subject Code | Subject Title | Year Level | Subject Coordinator | Email | Subject Overview |
| OCT5ERA | Evidence Review in Occupational Therapy | 5 – Masters | Juan Pablo Saa Arancibia | J.SaaArancibia@latrobe.edu.au | In this subject you will develop advanced skills in searching, appraising and integrating research evidence into practice. Working in small groups you will evaluate the rigour of a body of research evidence available to answer a contemporary and important question relating to the practice of occupational therapy. After selection and appraisal, rigorous research evidence will be integrated with current clinical knowledge/expertise and contextual factors. You will then develop, articulate and justify, through written and verbal presentations, evidence- based occupational therapy practice recommendations that identify where changes in practice have or must occur in response to new knowledge. In this subject you will have the opportunity to continue to develop and demonstrate effective communication and collaboration, as well as investigative and critical thinking skills. |
| OCT5MSP | Macro Strategies for Advanced Professional Practice | 5 – Masters | Tracy Fortune | T.Fortune@latrobe.edu.au | In this subject, you will shift your view beyond the occupational challenges facing individuals, to consider the ways in which occupational therapists enable change at the level of the service/organisation, community or population. This is referred to as macro level practice. You will focus on gaining knowledge and skills required for your impending role as health practitioners in a rapidly changing health and social policy context. The subject is comprised of three key themes: health promotion and prevention, project management and preparation for contemporary practice. You will apply, critique and reflect upon major subject themes through appraising other projects and planning and conducting your own team-based project. This subject will develop skills in innovation and entrepreneurship, including the ability to tackle problems creatively, generating new ideas, taking calculated risks and creating change to achieve ambitions - now and in the future. |

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| | | | | | <p>Professional accreditation requires a minimum of 1000 hours of professional exposure. Your professional practice skills developed through your project will contribute to meeting this requirement for professional recognition as an occupational therapist.</p> <p>This subject includes professional learning, practical experiences or portfolio activities which contribute to the completion of the Silver Career Ready Advantage™ award.</p> |
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| School of Computing, Engineering and Mathematical Sciences | | | | | |
| Subject Code | Subject Title | Year Level | Subject Coordinator | Email | Subject Overview |
| STM4PSD | Probability and Statistics for Data Science | 4 – Honours | Chris Taylor | Chris.Taylor@latrobe.edu.au | This subject develops an understanding of probability and statistics applied to Data Science. Probability topics include joint and conditional probability, Bayes' Theorem and distributions such as the uniform, binomial, Poisson and normal distributions as well as properties of random variables and the Central Limit Theorem. Statistical inference and data analysis is also considered covering, among other topics, significance testing and confidence intervals with an introduction to methods such as ANOVA, linear and nonlinear regression and model verification. Applications to data science are considered and students will be exposed to the R statistical package as well as the mathematical type-setting package LaTeX. |
| CSE5013 | Research Methods and Innovation | 5 – Masters | Lydia Cui | L.Cui@latrobe.edu.au | In this subject, you will learn about essential research methods that are used in computer science and information technology domains. You will learn about information collection and analysis techniques suitable for research and industry settings, quantitative and qualitative evaluation metrics and ethics, and academic written and oral scientific presentation skills. Upon completion, you will be able to plan, develop, and effectively communicate research proposals and ideas of innovation to both specialist and non-specialist audiences. |
| ELE5ERM | Engineering Research | 5 – Masters | Elsuida Kondo | E.Kondo@latrobe.edu.au | In this subject which is delivered ahead of your capstone project, you will learn about engineering research and contexts in |

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| | Methodology and Application | | | | <p>which engineering research occurs. Professional Engineers will often be required to undertake research to support a project, so it is critical that graduate engineers enter practice with a knowledge and direct experience of how research is planned, executed ethically and sustainably, and reported. These elements are then considered in the context of your capstone project. After undertaking this subject, you will be able to prepare a project proposal and project management plan, to choose and execute an appropriate methodology, and to draw conclusions. Undertaking your research will require attention to describing your work in the context of current knowledge, reporting on how your data were obtained, and drawing conclusions and identifying possibilities for further work in your area of research. Maintaining the highest standard in honest and ethical reporting and adhering to reporting conventions is critical, as is appropriate writing style and expression in this subject which is delivered ahead of your capstone project.</p> |
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| School of Education | | | | | |
| Subject Code | Subject Title | Year Level | Subject Coordinator | Email | Subject Overview |
| EDU5029 | Reviewing Educational Literature | 5 – Masters | Kate O'Connor | Kate.OConnor@latrobe.edu.au | <p>This subject provides students with the necessary knowledge and skills to conduct traditional narrative literature reviews. Students will learn about the purposes and features of different types of literature reviews, including how traditional narrative literature reviews compare with systematic literature reviews. They will learn how to identify, analyse, and synthesise high quality, relevant literature (including peer-reviewed and grey literature) and how to locate proposed research questions and projects within this broader literature. Literature search strategies and the use of reference management systems will also be addressed.</p> |
| EDU5030 | Education Research Methodology | 5 – Masters | Craig Deed | C.Deed@latrobe.edu.au | <p>This subject supports students to develop an understanding of a range of methodologies used in educational research. It explores both general methodological questions and concerns in the field of educational research as well as the use of specific research methodologies and methods, spanning qualitative and</p> |

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| | | | | | quantitative approaches. Students will consider the general affordances and limitations of different methods and methodologies, before exploring a methodological approach relevant to their own research question(s) in more depth. |
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| School of Humanities and Social Sciences | | | | | |
| Subject Code | Subject Title | Year Level | Subject Coordinator | Email | Subject Overview |
| HUS4001 | Humanities and Social Science Research Design | 4 - Honours | Gregoria Manzin | G.Manzin@latrobe.edu.au | This subject will develop your capacity to engage in sophisticated analysis and original research in the Humanities and Social Sciences at Honours level. You will focus on research design, examining the nature of research at Honours level, how to develop a research question, how to locate relevant sources, and how to write a literature review. Throughout the subject, you will be supported to refine your academic writing skills and develop the necessary skills to plan and execute an Honours research project. This subject requires regular participation and engagement with the learning activities and in-class discussions, as well as independent work outside of class time. This subject is delivered in intensive mode: classes are scheduled as 6 whole day sessions, 10am-5pm (one day per week). |
| HUS4003 | Concepts and Theory in Humanities and Social Sciences Research | 4- Honours | Katie Wirght | Katie.Wright@latrobe.edu.au | Enrich your research by examining how different theoretical frameworks and key concepts can be applied to your thesis topic. This subject explores key concepts, theories and schools of thought influencing research across the Humanities and Social Sciences. In this subject, you will be introduced to key thinkers, concepts and theoretical approaches. You will engage with important ideas and influential texts, and consider their application within and across disciplines. You will have opportunities to develop critical, in-depth and interdisciplinary understandings of how key theorists shape knowledge production. Researchers from the School of Humanities and Social Sciences demonstrate how theories and concepts are operationalised in different disciplinary and interdisciplinary contexts. |
| HUS4008 | Historical and Archival | 4 – Honours | Katie Holmes | K.Holmes@latrobe.edu.au | This subject focuses on the history, practice, politics and ethics of archives as repositories and producers of knowledge. You will |

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| | Research Methods | | | | learn what constitutes an archive, how to navigate historical and archival research, and explore methods including the queering and decolonising of archival practice and reverence. You will conduct research that considers documents and artefacts and explore research that considers what it feels like to do archival research. While much archival research focuses on the content accessible within the archive, you will also look at the politics that render some things archives and others not. |
| HUSDADR | Research Skills | 5 – Masters | Aidan Craney | A.Craney@latrobe.edu.au | This subject provides a grounding in advanced research skills in the humanities and social sciences for students undertaking original research. You will learn how to locate and critically analyse professional and academic literature in their field. The subject will also consider different ways that the outcomes of social research are used, whether to inform public debate, policy and political decision making, professional practice, or to direct further research on related issues. It will provide you with the skills necessary to design their own study, whether this is for research essays in other subjects, commissioned research in a professional context, or an independent research thesis. |
| SOC5QSR | Quantitative Skills for Social Research | 5 – Masters | Xianbi Huang | X.Huang@latrobe.edu.au | When you hear the term “quantitative”, what comes to mind – just numbers and data, or something with broader potential and impact? Have you considered that learning quantitative analysis can be both enjoyable and adaptable to your learning needs? Could developing quantitative skills enhance your analytical abilities and offer new perspectives on social phenomena or contemporary issues? This subject introduces quantitative research in an approachable and engaging way, seeking to benefit students from a wide range of academic backgrounds. In this subject, you will explore the foundations of designing and conducting quantitative research in the social sciences, learning how to formulate research questions and utilise data analysis techniques to identify evidence-based solutions. You will gain hands-on experience in designing surveys and questionnaires, working with various data sources or relevant information, and using SPSS, known for its user-friendly interface, to generate valuable insights. Numerous real-life case studies and examples |

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| | | | | | will illustrate how these quantitative skills can be applied across diverse disciplines and fields. This subject intends to help you discover your potential and build confidence in quantitative work, equipping you with practical skills that are in demand both academically and professionally. It will also support your career development and create diverse opportunities. |
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| School of Nursing and Midwifery | | | | | |
| Subject Code | Subject Title | Year Level | Subject Coordinator | Email | Subject Overview |
| RMD5FGR | Foundations of Graduate Research | 5 – Masters | Ken HO | K.HO@latrobe.edu.au | In this subject you will learn about the epistemology of research and the theoretical constructs in developing an ethical research question. This subject is designed for students commencing a graduate research degree, and will provide you with an opportunity to develop literature searching skills necessary to undertake graduate research. The subject will enhance your knowledge of the varied philosophical underpinnings and methodological approaches to conceiving and designing research. |
| NSM5IPC | Implementing Practical Change | 5 – Masters | Rachel Cardwell | R.Cardwell@latrobe.edu.au | In this subject, you will conduct a critical literature review based on the project topic to be undertaken in NSM5NPI Clinical Project. The literature review must aim to summarise, interpret and critically evaluate the existing evidence to establish current knowledge of a particular subject. The literature review may address a controversy, establish the need for additional research, and/or define a topic of inquiry. It is intended to provide you with current knowledge on an aspect that relates to legal and ethical issues within clinical practice. |
| NSM5NPI | Nursing and Midwifery Practice Innovation Project | 5 – Masters | Jason Watterson | J.Watterson@latrobe.edu.au | In this subject, you are offered the opportunity to design and implement a project that supports the development of your clinical expertise, scholarly inquiry and skills in reporting. You will design and conduct a project, supported by your work in the subject Implementing Practice Change (NSM5IPC), which could precede this subject, or be done concurrently if you are full-time. You are allocated an academic supervisor who offers guidance throughout the duration of the investigation. The subject involves |

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| | | | | | regular communication with a designated academic and/or clinical supervisor. |
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| NSM5RES | Research in Nursing and Midwifery | 5 – Masters | Maria Murphy | Maria.Murphy@latrobe.edu.au | In this subject, you will develop advanced knowledge of nursing and midwifery practice. You will examine the elements of the research process including identifying a research problem, formulation of a research question, research design, methods, data collection, analyses and dissemination of results. You will acquire skills required to conduct a literature review for research purposes and address the ethics of research, develop cognitive and technical skills that demonstrate a broad understanding of a body of knowledge relevant to clinical practice. You will also acquire skills required to conduct a literature review for research purposes, develop appropriate research methods and address the ethics of research. |
| School of Psychology and Public Health | | | | | |
| Subject Code | Subject Title | Year Level | Subject Coordinator | Email | Subject Overview |
| RMD5EHR | Systematic Review and Evaluation of Health Research | 5 – Masters | Rebecca Ryan | R.Ryan@latrobe.edu.au | In this subject, graduate researchers develop a detailed protocol for a systematic review of research literature on a health-related topic relevant to their field. The subject is particularly beneficial for students commencing graduate research degrees. You will undertake background work to justify your systematic review, construct and refine a review question, design a comprehensive search for relevant research literature, designed unbiased methods to select and evaluate the research literature, and select appropriate methods for the extraction and synthesis of data from the included studies. You will work closely with your thesis supervisor and the subject coordinator as required. |
| RMD5AIS | Advanced Issues in Health and Wellbeing Research | 5 – Masters | Melissa Buultjens | M.Buultjens@latrobe.edu.au | You will study and analyse content presented in three main modules - Past, Present and Futures - and relate these to your Master or Doctoral research proposal through individual and class activities and assessment tasks. You will contextualise your research topic historically and in relation to contemporary and emerging trends and issues and future scenarios. You will advance your understanding of population health and wellbeing paradigms, |

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| | | | | | <p>eras, grand challenges, key events, concepts, values, frameworks, systems, practices and tools. You will critically explore the roles of government and other institutions, healthcare and other sectors, various disciplines and professions and communities and citizens in public health analysis, advocacy and action. This subject is designed to complement research training subjects by providing continuous opportunities for you to further develop aspects of your research proposal, including its significance, key questions, methodology and ethical dimensions. You will explore ways to optimise the relevance of your research project and its potential impact on people, environments and systems. To support your development as leaders in your profession, sector, organisation and/or field of practice, you will gain basic skills in futures literacy and professionalise your oral, written and audio-visual presentation skills in order to effectively communicate research to interdisciplinary audiences.</p> |
| PHE5EPB | Epidemiology and Biostatistics | 5 – Masters | Katrina Lambert | K.Lambert@latrobe.edu.au | <p>This subject will provide you with an understanding of the role of epidemiology and biostatistics in public health. You will be introduced to the main concepts and methods of epidemiology and biostatistics, sources of population data, and how these are applied to identify and address public health problems. You will be introduced to statistical software packages and learn how to use these to perform statistical analyses. You will learn how to interpret the results of key epidemiological and biostatistical tests.</p> |
| PHE5011 | Research Methodologies in Health Sciences | 5 – Masters | Mehak Batra | M.Batra@latrobe.edu.au | <p>In this subject, you will learn the core principles and processes for conducting research - a systematic and rigorous process for creating new knowledge on a topic or issue. You will develop crucial research skills, including reviewing the literature, formulating research questions, and collecting and analysing data. Guided by values of effective communication and research ethics, you will be introduced to various methodological approaches to research, with a primary focus on quantitative, qualitative, or review methodologies. Once you have finished the first module, you will select and move into one of three streams for focused learning on your selected methodology, each of which will have unique content and assessments.</p> |

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| | | | | | <p>In the quantitative research stream, you will cover methods such as comparing groups using t-tests, ANOVA, and chi-squared tests, analysing relationships between variables using correlation, linear and logistic regression, examining effect modification and interactions, and longitudinal analysis.</p> <p>In the qualitative research stream, you will learn about qualitative research designs, sampling, methods of data collection (particularly, interviews and focus groups), as well as a range of methods for analysing qualitative data.</p> <p>In the review methodologies stream you will be introduced to the major types of approaches to systematically reviewing research evidence. You will gain an understanding of the main steps in conducting systematic reviews including asking structured questions and developing selection criteria, critical appraisal of primary research, data extraction, and different methods of data synthesis.</p> |
| PHE5POL | Health Policy Development and Implementation | 5 – Masters | Cassandra De Lacy-Vawdon | C.DeLacy-Vawdon@latrobe.edu.au | <p>This subject focuses on the theory and practice of health policy, including health system policy, healthcare policy and public health policy. You will develop skills to participate competently in the design and critical analysis of policy at a level appropriate to a health policy advisor. The process of policy will be conceptualised in terms of development, advocacy, implementation and evaluation. Key themes are: What is policy? How and when is policy formulated? Who is involved in policy and why? How is policy implemented and monitored? How is policy reviewed, evaluated and improved? Various theories and frameworks that seek to explain the policy making process are introduced and critiqued. Institutional systems and structures that influence health policy making will be examined. Particular attention is given to exploring the contemporary policy and political environments for policy making, and the use of advocacy, evidence and policy instruments for implementing policy. The roles of interest groups in policy process are explored. Case studies are used to illustrate key policy issues.</p> |