BUSA1027
Demographic Fundamentals
Session 1, In person-scheduled-weekday, North Ryde 2023

Department of Actuarial Studies and Business Analytics

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General Information

Unit convenor and teaching staff
Unit Convenor
Nick Parr
nick.parr@mq.edu.au
Contact via Email
Room 626 4 Eastern Roda
Tuesday 11am-12

Deanna Tracy
deanna.tracy@mq.edu.au

Credit points
10

Prerequisites

Corequisites

Co-badged status

Unit description
This unit introduces students to demography and provides a platform of knowledge and skills for further demography/population related studies. Students will develop skills in the analysis of changes in population size and composition. The general patterns of fertility, mortality and migration in Australia and other countries will be studied, and their implications for population size and composition will be explained. The main source of demographic data and the main techniques for analysing population change will be introduced. Practical applications of demography in the public and private sector will be discussed.

Important Academic Dates
Information about important academic dates including deadlines for withdrawing from units are available at https://www.mq.edu.au/study/calendar-of-dates

Learning Outcomes
On successful completion of this unit, you will be able to:

ULO1: Define and explain basic demographic concepts.
ULO2: Recognise the main sources of demographic data, and of the strengths and limitations of the ranges of data that can be obtained from these sources.
ULO3: Apply basic demographic techniques to calculate demographic measures and interpret the results.
ULO4: Analyse trends in population size and composition in Australia and internationally.
ULO5: Recognise the patterns of fertility, mortality and migration in Australia through data analysis using demographic techniques.

General Assessment Information

Late Assessment Submission Penalty (written assessments)

Unless a Special Consideration request has been submitted and approved, a 5% penalty (of the total possible mark) will be applied each day a written assessment is not submitted, up until the 7th day (including weekends). After the 7th day, a grade of ‘0’ will be awarded even if the assessment is submitted. Submission time for all written assessments is set at 11.55pm. A 1-hour grace period is provided to students who experience a technical concern.

For any late submissions of time-sensitive tasks, such as scheduled tests/exams, performance assessments/presentations, and/or scheduled practical assessments/labs, students need to submit an application for Special Consideration.

Assessment Tasks

<table>
<thead>
<tr>
<th>Name</th>
<th>Weighting</th>
<th>Hurdle</th>
<th>Due</th>
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<tbody>
<tr>
<td>Assignment</td>
<td>50%</td>
<td>No</td>
<td>Weeks 4, 7, 9 and 11</td>
</tr>
<tr>
<td>Final Examination</td>
<td>50%</td>
<td>No</td>
<td>University Exam Period</td>
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Assignment

Assessment Type: Project
Indicative Time on Task: 40 hours
Due: Weeks 4, 7, 9 and 11
Weighting: 50%

The assignment is organised in four parts. Students will need to conduct data analysis, interpretation, discussion and write a report.

On successful completion you will be able to:

- Define and explain basic demographic concepts.
- Recognise the main sources of demographic data, and of the strengths and limitations of the ranges of data that can be obtained from these sources.
Apply basic demographic techniques to calculate demographic measures and interpret the results.

Analyse trends in population size and composition in Australia and internationally.

Recognise the patterns of fertility, mortality and migration in Australia through data analysis using demographic techniques.

Final Examination

Assessment Type 1: Examination
Indicative Time on Task 2: 20 hours
Due: University Exam Period
Weighting: 50%

A two-hour exam will be held during the University Examination Period.

On successful completion you will be able to:

- Define and explain basic demographic concepts.
- Recognise the main sources of demographic data, and of the strengths and limitations of the ranges of data that can be obtained from these sources.
- Apply basic demographic techniques to calculate demographic measures and interpret the results.
- Analyse trends in population size and composition in Australia and internationally.
- Recognise the patterns of fertility, mortality and migration in Australia through data analysis using demographic techniques.

1 If you need help with your assignment, please contact:

- the academic teaching staff in your unit for guidance in understanding or completing this type of assessment
- the Writing Centre for academic skills support.

2 Indicative time-on-task is an estimate of the time required for completion of the assessment task and is subject to individual variation

Delivery and Resources

Classes

For each student there will be 3 hours teaching per week, consisting of two-hours of lecture material and a one-hour tutorial. Each student should attend (preferably) or watch and listen...
to the scheduled lecture and participate in one of the scheduled tutorials each week. Information on class delivery will appear on iLearn.

The timetable for classes can be found on the University web site at: Timetable 2023

Students who wish to change tutorial classes must request permission from the Unit Convener. Attendance in all the tutorials and online use of lecture material will be monitored. When tutorial attendance is not possible, it is student's responsibility to inform the tutor and to ensure that they listen to the recording.

Please bring a calculator and lecture notes (or a device with online access to lecture material) to all tutorials. Please note that the tutorial classes will start in the first week of the session.

Students are expected to arrive on time and not leave until the class ends. Students with commitments that regularly prevent them from attending the entire tutorial are requested to discuss the situation with the lecturer or tutor.

In addition to the time spent listening to lectures and attending tutorials and doing assignments, each student is expected to spend a significant amount of time preparing for tutorials, updating lecture notes, reading the recommended demographic literature, learning the key definition and formulae, attempting tutorial exercises and past exam papers, and revising for the final exam (7 hours per week is recommended). Students are also encouraged to follow recent development and public debates in relation to population and society in Australia and elsewhere in the media.

**Recommended Texts and/or Materials**


or


Readings may be accessed via the unit iLearn page or Leganto.

**Technology Used and Required**

Unit Web Page: Students can access BUSA1027 unit materials online through Macquarie University's online learning environment, iLearn. Log into iLearn at iLearn using student ID number and MQ Student Portal password.

Students are expected to be familiar with the use of basic office software, including word processing, spreadsheets and PowerPoint.

Lecture recordings (iLectures): Lectures will be recorded using the Echo360 Active Learning Platform and made available on iLearn.

**Unit Schedule**

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<th>Week</th>
<th>Topic</th>
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Preliminary schedule - Note schedule may be subject to change
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<tr>
<th>Week 1</th>
<th>Part 1 - Introduction. Part 2 - Sources of demographic data.</th>
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<tr>
<td>Week 4</td>
<td><strong>Life Tables and Life Expectancies.</strong> Part 1 - What is a life table? Parts 2 and 3 - Definitions of columns of a life table. Part 4 - How to compute a life table. Part 5 - Using life tables to analyse mortality.</td>
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<td>Week 7</td>
<td><strong>International Migration.</strong> Part 1 - Global patterns of international migration. Part 2 - Immigration rules and trends for Australia.</td>
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<td>Week 9</td>
<td><strong>Immigration, Age and Ethnicity.</strong> Part 1 - Effects of immigration on age-sex structure. Part 2 - The demography of immigrant groups in Australia. Part 3 - Australia's indigenous population.</td>
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<td>Week 11</td>
<td><strong>Sydney's Population.</strong> Part 1 - Patterns of population growth within Sydney. Part 2 - Differences in age and sex between Sydney's suburbs.</td>
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<td>Week 13</td>
<td>Conclusion</td>
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**Policies and Procedures**

Macquarie University policies and procedures are accessible from Policy Central (https://policies.mq.edu.au). Students should be aware of the following policies in particular with regard to Learning and Teaching:

- Academic Appeals Policy
- Academic Integrity Policy
- Academic Progression Policy
- Assessment Policy
- Fitness to Practice Procedure
- Assessment Procedure
- Complaints Resolution Procedure for Students and Members of the Public
- Special Consideration Policy

Students seeking more policy resources can visit Student Policies (https://students.mq.edu.au/su)
Student Support

It is your one-stop-shop for the key policies you need to know about throughout your undergraduate student journey.

To find other policies relating to Teaching and Learning, visit Policy Central (https://policies.mq.edu.au) and use the search tool.

Student Code of Conduct

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: https://students.mq.edu.au/admin/other-resources/student-conduct

Results

Results published on platform other than eStudent, (eg. iLearn, Coursera etc.) or released directly by your Unit Convenor, are not confirmed as they are subject to final approval by the University. Once approved, final results will be sent to your student email address and will be made available in eStudent. For more information visit ask.mq.edu.au or if you are a Global MBA student contact globalmba.support@mq.edu.au

Academic Integrity

At Macquarie, we believe academic integrity – honesty, respect, trust, responsibility, fairness and courage – is at the core of learning, teaching and research. We recognise that meeting the expectations required to complete your assessments can be challenging. So, we offer you a range of resources and services to help you reach your potential, including free online writing and maths support, academic skills development and wellbeing consultations.

Student Support

Macquarie University provides a range of support services for students. For details, visit http://students.mq.edu.au/support/

The Writing Centre

The Writing Centre provides resources to develop your English language proficiency, academic writing, and communication skills.

- Workshops
- Chat with a WriteWISE peer writing leader
- Access StudyWISE
- Upload an assignment to Studiosity
- Complete the Academic Integrity Module

The Library provides online and face to face support to help you find and use relevant information resources.

- Subject and Research Guides
- Ask a Librarian
Student Services and Support

Macquarie University offers a range of Student Support Services including:

- IT Support
- Accessibility and disability support with study
- Mental health support
- Safety support to respond to bullying, harassment, sexual harassment and sexual assault
- Social support including information about finances, tenancy and legal issues
- Student Advocacy provides independent advice on MQ policies, procedures, and processes

Student Enquiries

Got a question? Ask us via AskMQ, or contact Service Connect.

IT Help

For help with University computer systems and technology, visit http://www.mq.edu.au/about_us/offices_and_units/information_technology/help/.

When using the University's IT, you must adhere to the Acceptable Use of IT Resources Policy. The policy applies to all who connect to the MQ network including students.

Changes from Previous Offering

The lecture content will be updated to reflect the latest available data and emerging issues.

Changes since First Published

<table>
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<tr>
<th>Date</th>
<th>Description</th>
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<tr>
<td>07/02/2023</td>
<td>Schedule needed to be changed due to Week 8 clashing with ANZAC Day</td>
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