**AFCP8150**

Infrastructure, Property and Resources

**Term 4, Infrequent attendance, City 2021**

*Department of Applied Finance*

---

**Contents**

- General Information ........................................... 2
- Learning Outcomes .......................................... 2
- Assessment Tasks ........................................... 3
- Delivery and Resources ..................................... 5
- Unit Schedule ................................................ 6
- Policies and Procedures ..................................... 8

---

**Disclaimer**

Macquarie University has taken all reasonable measures to ensure the information in this publication is accurate and up-to-date. However, the information may change or become out-dated as a result of change in University policies, procedures or rules. The University reserves the right to make changes to any information in this publication without notice. Users of this publication are advised to check the website version of this publication [or the relevant faculty or department] before acting on any information in this publication.

---

**Session 2 Learning and Teaching Update**

The decision has been made to conduct study online for the remainder of Session 2 for all units WITHOUT mandatory on-campus learning activities. Exams for Session 2 will also be online where possible to do so.

This is due to the extension of the lockdown orders and to provide certainty around arrangements for the remainder of Session 2. We hope to return to campus beyond Session 2 as soon as it is safe and appropriate to do so.

Some classes/teaching activities cannot be moved online and must be taught on campus. You should already know if you are in one of these classes/teaching activities and your unit convenor will provide you with more information via iLearn. If you want to confirm, see the list of units with mandatory on-campus classes/teaching activities.

Visit the MQ COVID-19 information page for more detail.

---

https://unitguides.mq.edu.au/unit_offerings/138372/unit_guide/print
General Information

Unit convenor and teaching staff
James Hay
james.hay@mq.edu.au

Cosmas Kapsanis
cosmas.kapsanis@mq.edu.au

Credit points
10

Prerequisites
Admission to Master of Applied Finance or Graduate Diploma of Applied Finance

Corequisites

Co-badged status

Unit description
This unit considers the infrastructure, property, and resources industries. The unique characteristics of each industry are reviewed and contrasted and the value chain (or sources of value) within each industry are examined. The unit considers the interests of participants, the development of projects, and appropriate evaluation techniques across these industries. Over the course of the unit students will consider risk, return, and valuation issues from the point of view of both equity participants, and lenders. Students will develop cash flow modelling techniques to address the decisions facing these various participants.

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

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

ULO1: Explain and evaluate the infrastructure, resources, and property industries and their value chains together with relevant financing tools and valuation techniques.

ULO2: Critically assess projects in these industries using these techniques to find solutions which address risk and return requirements of various stakeholder needs including owners and lenders.

ULO3: Develop investment proposals which uses appropriate analytical techniques and
deliver practical solution(s) in response to the needs of relevant stakeholders.

Assessment Tasks

<table>
<thead>
<tr>
<th>Name</th>
<th>Weighting</th>
<th>Hurdle</th>
<th>Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quizzes</td>
<td>20%</td>
<td>No</td>
<td>23/10/21, 20/11/21</td>
</tr>
<tr>
<td>Resources Equity Valuation Assignment</td>
<td>25%</td>
<td>No</td>
<td>3/11/21</td>
</tr>
<tr>
<td>Infrastructure Assignment</td>
<td>25%</td>
<td>No</td>
<td>24/11/21</td>
</tr>
<tr>
<td>Property Assignment</td>
<td>30%</td>
<td>No</td>
<td>1/12/21</td>
</tr>
</tbody>
</table>

Quizzes

Assessment Type 1: Quiz/Test
Indicative Time on Task 2: 14 hours
Due: 23/10/21, 20/11/21
Weighting: 20%

Two online quizzes will be conducted during the term. Open book.

On successful completion you will be able to:
- Explain and evaluate the infrastructure, resources, and property industries and their value chains together with relevant financing tools and valuation techniques.
- Critically assess projects in these industries using these techniques to find solutions which address risk and return requirements of various stakeholder needs including owners and lenders.

Resources Equity Valuation Assignment

Assessment Type 1: Case study/analysis
Indicative Time on Task 2: 17 hours
Due: 3/11/21
Weighting: 25%

Preparation of a valuation of an equity investment in a Resource project/company. Individual task of up to 2,500 words.
On successful completion you will be able to:

- Explain and evaluate the infrastructure, resources, and property industries and their value chains together with relevant financing tools and valuation techniques.
- Critically assess projects in these industries using these techniques to find solutions which address risk and return requirements of various stakeholder needs including owners and lenders.
- Develop investment proposals which uses appropriate analytical techniques and deliver practical solution(s) in response to the needs of relevant stakeholders.

**Infrastructure Assignment**
Assessment Type 1: Case study/analysis
Indicative Time on Task 2: 17 hours
Due: 24/11/21
Weighting: 25%

Preparation of an assessment of an infrastructure project. Individual task of up to 2,500 words.

On successful completion you will be able to:

- Explain and evaluate the infrastructure, resources, and property industries and their value chains together with relevant financing tools and valuation techniques.
- Critically assess projects in these industries using these techniques to find solutions which address risk and return requirements of various stakeholder needs including owners and lenders.
- Develop investment proposals which uses appropriate analytical techniques and deliver practical solution(s) in response to the needs of relevant stakeholders.

**Property Assignment**
Assessment Type 1: Case study/analysis
Indicative Time on Task 2: 22 hours
Due: 1/12/21
Weighting: 30%

Assessment of a property investment case study. Group task of up to 2,500 words.

On successful completion you will be able to:
• Explain and evaluate the infrastructure, resources, and property industries and their value chains together with relevant financing tools and valuation techniques.
• Critically assess projects in these industries using these techniques to find solutions which address risk and return requirements of various stakeholder needs including owners and lenders.
• Develop investment proposals which uses appropriate analytical techniques and deliver practical solution(s) in response to the needs of relevant stakeholders.

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 Learning Skills Unit 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

Delivery

• For Term 4 2021, this unit will be delivered online only
• All lectures/workshops will be online and delivered via Zoom
• Lectures will be recorded and available for viewing by students

Readings:

• Readings and case study materials are included in iLearn.
• Students should assume these readings are examinable unless otherwise advised.

Assumed Knowledge: Mathematical content

• This unit requires students to perform arithmetic (add, subtract, multiply, divide), to work with exponents (raise to the power of), and to perform algebraic manipulation of simple equations. For example, given the arithmetical answer to a calculation, it is expected that you can solve for one of the inputs.
  ◦ If \(534 = 221 + X - 440\), what is \(X\)?
• Additionally, this unit requires students to solve mathematical problems using spreadsheet software by coding formulas into cells in the spreadsheet.
• Students should be familiar with financial mathematics such as simple interest and the time value of money.
  ◦ If $200 is borrowed for 12 months at an interest rate of 6% pa to be paid monthly
in arrears, how much interest is paid each month?
- What is the effective annual interest rate?

TECHNOLOGY USED AND REQUIRED

This unit which will make use of the University’s iLearn system.

Unit iLearn Site:

- Found by logging on to iLearn ilearn.mq.edu.au, then clicking on Resources, Property and Infrastructure.
- Here you will find forums, downloadable resources and links to important pages.
- The forum allows you to communicate with other students and lecturer(s) and may provide supplementary material.
- You are requested to post your questions on the forums at least 24 hours prior to the assignment submission date or the examination date. Questions posted after that time may not be answered. Please try to not leave your questions to the last few days.

Important Notice:

- It is important that you familiarise yourself with the unit’s iLearn site.
- All students should check iLearn regularly and look for updates and distribution of materials related to the unit or assessments and participate in forum discussions.

Assumed access to technology: Access to a computer with word processing and spreadsheet capability is assumed, as is general student computer literacy. A recent version of Excel is the preferred choice of spreadsheets.

Unit Schedule

<table>
<thead>
<tr>
<th>Week beginning</th>
<th>Topic</th>
<th>Live Session</th>
<th>Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 September</td>
<td>Resources Industry Value Chain</td>
<td>Thursday 23rd September 6.00 – 7.30pm Zoom</td>
<td></td>
</tr>
<tr>
<td>27 September</td>
<td>Exploration decision making, reserve reporting</td>
<td>Thursday 30th September 6.00 – 8.00pm Zoom</td>
<td></td>
</tr>
<tr>
<td>Date</td>
<td>Topic</td>
<td>Event Details</td>
<td>Notes</td>
</tr>
<tr>
<td>------------</td>
<td>----------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------</td>
<td>--------------------------------------------</td>
</tr>
<tr>
<td>4 October</td>
<td>Resource Asset Valuation</td>
<td>Weekend Block Zoom</td>
<td>Resources case study released</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Saturday 9th October 9am – 3pm Sunday 10th October 9am – 3pm</td>
<td></td>
</tr>
<tr>
<td>11 October</td>
<td>Property Industry: Participants and development process</td>
<td>Thursday 14th October 6.00 - 8.00pm Zoom</td>
<td>Property group project released</td>
</tr>
<tr>
<td>18 October</td>
<td>Property: Investment and development Decisions</td>
<td>Thursday 21st October 6.00 - 8.00pm Zoom</td>
<td>Quiz 1 (Weeks 1 - 4) 12pm, 22nd October - 9pm, 23rd October (any 1 hour period)</td>
</tr>
<tr>
<td>25 October</td>
<td>Infrastructure:</td>
<td>Weekend Block Zoom</td>
<td>Infrastructure case study released</td>
</tr>
<tr>
<td></td>
<td>1. Risks</td>
<td>Saturday 30th October 9am – 3pm Sunday 10th October 9am – 3pm Zoom link</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2. Structure</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3. Valuation</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4. Funding</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 November</td>
<td></td>
<td></td>
<td>Resources case study individual assessment due 11.55pm 3rd November</td>
</tr>
<tr>
<td>8 November</td>
<td>Concluding Infrastructure</td>
<td>Thursday 11th November 6.00 – 8.00pm Zoom</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1. Assessment guidance</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2. Outstanding topics</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3. Q&amp;A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15 November</td>
<td>Concluding session – all topics Q&amp;A</td>
<td>Thursday 18th November 6.00 – 8.00pm Zoom</td>
<td>Quiz 2 (weeks 5 – 8) 12pm, 19th November - 9pm 20th November (any 1 hour period)</td>
</tr>
<tr>
<td>22 November</td>
<td></td>
<td></td>
<td>Infrastructure case study individual assessment due 11.55pm 24th November</td>
</tr>
</tbody>
</table>
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
- Grade Appeal Policy
- Complaint Management 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/support/study/policies). 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

Student Support

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

Learning Skills

Learning Skills (mq.edu.au/learningskills) provides academic writing resources and study strategies to help you improve your marks and take control of your study.
• Getting help with your assignment
• Workshops
• StudyWise
• 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 Enquiry Service
For all student enquiries, visit Student Connect at ask.mq.edu.au

If you are a Global MBA student contact globalmba.support@mq.edu.au

Equity Support
Students with a disability are encouraged to contact the Disability Service who can provide appropriate help with any issues that arise during their studies.

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.