

SCHOOL/DEPARTMENT: Architecture & Planning

COURSE OUTLINE: ARCHDES700 / Semester 1, 2017

1.0 GENERAL COURSE INFORMATION

Course Code:	ARCHDES700
Course Title:	Advanced Design 1
Points Value:	30 points
Prerequisites:	N/a
Restrictions:	N/a
Course Director:	Prof Andrew Barrie, Room 335, Building 421, a.barrie@auckland.ac.nz
Course Co-ordinator:	Dr Ross Jenner, Room 547, Building 421, r.jenner@auckland.ac.nz
Teaching Staff:	Mike Davis and Alexander Sacha Milojevic, sachamilojevic@hotmail.com and m.davis@auckland.ac.nz

2.0 CLASS CONTACT HOURS

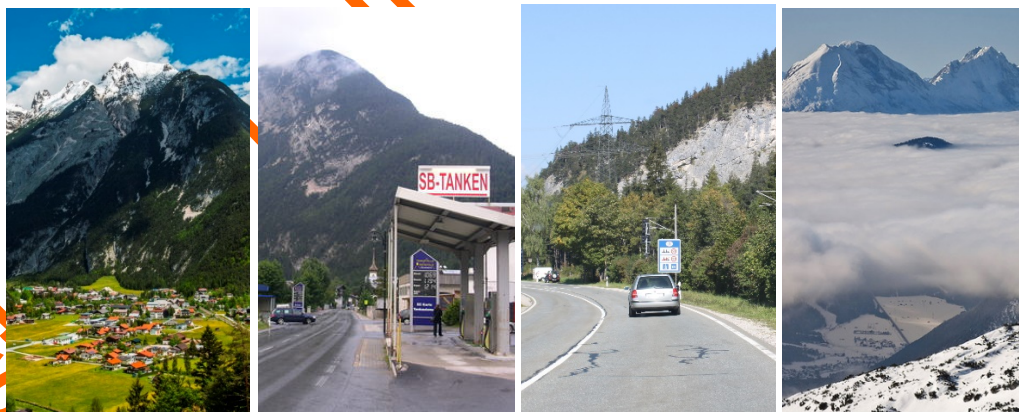
University of Auckland: Monday, Tuesday & Friday, 1pm – 5pm; Level 3 Design Studios, Building 421.
Universität Innsbruck: Monday- Friday, 10am – 6pm

3.0 COURSE PRESCRIPTION

A studio based inquiry into an architectural topic approved by the Head of School of Architecture and Planning intended to facilitate in-depth study that is both tailored to a student's own interest and aligned with the School's research clusters, sharing workshops, discussions, pin-ups and tutorials.



REPAIRING INNSBRUCKERSTRASSE / REGAINING SCHARNITZ



1-4.



5-7.

REPAIRING A MAIN STREET / REGAINING A TOWNSCAPE

Scharnitz is on the verge of a significant phase of urban recovery. The main public space of the town, Innsbrucker Straße (Innsbruck Street), is the municipality's sector of the Seefeldler Straße or Austrian Federal Road B177 from the Inntal becoming the German Federal Road E533 a few hundred metres north of the centre of Scharnitz.

The town's main street, over the past few decades, has barely survived the destructive effects of modern-day volumes of goods vehicle and tourist traffic serviced by petrol stations, imbisslokal (takeaways) and some visitor accommodation. The town's historical *raison d'être*, as a *Straßendorf* (literally a road town), dates to the Celtic and Roman era and since the medieval era, it has been a border town, goods and customs depot. The Napoleonic era Porta Claudia fortress involved a massive wall across the valley at this point.





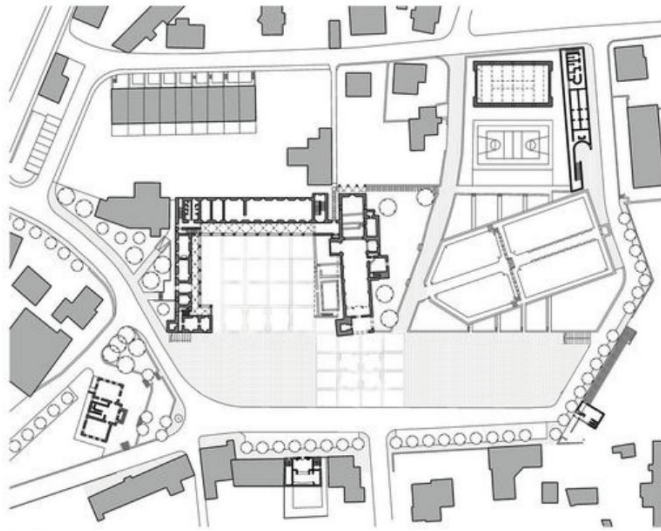
9-11.

The B177 Scharnitz Bypass, a €34 million 2 kilometre long motorway (half underground) running to the west of Scharnitz, broke ground to the south and west of Scharnitz last October. The volumes of traffic now running through the town will reduce to a quarter to create potential for the regeneration of the town and civic life around its main street.

"Once the Scharnitz bypass has been completed, only a fourth of the traffic load we see today will roll through the town centre. The project yields a sustainable improvement of the quality of living as well as huge opportunities for rural and touristic development of Scharnitz" Deputy Governor and Roadworks Officer Josep Geisler said in the framework of the bypass' celebratory ground breaking ceremony.

Except from Ceremonious ground-breaking ceremony for Scharnitz bypass
<http://worldofporr.porr-group.com/uploads/pdf/CeremoniousgroundbreakingceremonyforScharnitzbypass.pdf>

The central thesis of this studio is a combination group project for the space of the street itself and individual architectural project contributions to create 'places' or nodes of activity which would develop the quality of a street for local trips, relate to the dramatic surrounding landscape behind both sides of the street, and catalyse sensitive future development (for accentuation, alteration and transformation). Considering the physical quality of the site's topography, as well as the consideration of the historic identity and its representation in the site's archaeology, there is much which draws inhabitants and visitors here. For this reason, the 'places' we propose for projects would combine commercial/retail, recreational/sport, educational/cultural and residential programme elements as well as a significant contribution of public space. The sites for these projects are to be determined on the basis of group research and digital site modelling.



12-15.

It is not uncommon that local architects in these regions can heavily influence the urban design, building fabric of towns and even building regulations and laws in the case of the Swiss architect, Luigi Snozzi in Monte Carasso.



16-20.

Another Swiss example is the work of Gion Caminada working since the 1970's in the village of Vrin.



21-24.

And in Spain, RCR Arquitectes have amassed numerous projects in the town of Olot, since the 1990's.

While determining the project sites you are to concurrently research a programmatic theme in depth to decide on the appropriate representation and interpretation of your 'centre' or 'node'. For example, we imagine that the local topographic and historic attributes could be represented in the individual projects such as: a Border Centre, a Centrum Via Raetia, a Centrum Porta Claudia, a Hiking Centre, a Climbing Centre, a Cycling Centre, a Market Hall, a Community/Theatre Centre. This is to be signalled in the form of a project proposal by 10 December.

Working simultaneously across the three programmatic intentions (commercial, cultural and residential) for your chosen site, you will be asked to find a programmatic balance and to establish physical and visual connections at the neighbourhood scale, the town scale, the river valley as well as determining relations to the European Union threshold, the national border and regional boundary conditions.

You are expected to have an historical overview of Scharnitz and Scharnitzpass and ensure that your project contributes positively to the main physical, cultural and political features as well as to the town's physical identity. You will research and reference local and regional architecture as well as that of alpine environments (chalets, store houses, etc) and borders (roads, fortresses, etc). Through architecture, you are to gain an understanding of the physical features and urban and topographic planning challenges of Scharnitz Pass and develop a well resolved design reflecting the specific architectonic and material demands of alpine conditions in line with the MArch(Prof) requirement for an integrated design project and design report.

Image References

Page 1

1. <http://www.scharnitz.tirol.gv.at/de/>, accessed November 15, 2016.
2. <http://mapio.net/s/53498828/>, accessed November 15, 2016.
3. <http://mapio.net/s/53501661/>, accessed November 15, 2016.
4. <http://www.austria.info/uk>, accessed November 15, 2016.
- 5-7. <https://www.youtube.com/watch?v=mo4WTnViXtk>, accessed November 15, 2016.

Page 2 8. <https://www.bing.com/mapspreview>, accessed November 13, 2016.

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9. <http://www.meinbezirk.at/themen/blaha+scharnitz.html>, accessed November 15, 2016.
10. <https://www.tirol.gv.at/verkehr/baubezirksaemter/baubezirksamtinnsbruck/baumanahmenstraenbau/strae/b177seefelder-strasse-umfahrung-scharnitz-km-1900-km-2118/>, accessed November 15, 2016.
11. <https://www.tirol.gv.at/verkehr/baubezirksaemter/baubezirksamtinnsbruck/baumanahmenstraenbau/strae/b177seefelder-strasse-umfahrung-scharnitz-km-1900-km-2118/>, accessed November 15, 2016.

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12. <http://www.montecarasso.ch/index.php?node=332&lng=4&rif=dfca2cb74c>, accessed November 6, 2016.
13. <https://elainaberkowitz.wordpress.com/page/2/>, accessed November 6, 2016.
14. <https://m.flickr.com/#/photos/borissteinweg/3053500186/>, accessed November 6, 2016.
15. <http://www.montecarasso.ch/index.php?node=291&lng=1&rif=57be9d321b>, accessed November 6, 2016.
16. <https://www.bing.com/mapspreview>, accessed November 13, 2016.
17. <https://www.pinterest.com/arong765/gion-a-caminada/>, accessed November 15, 2016.
18. <https://www.pinterest.com/pin/293508100688720533/>, accessed November 15, 2016.
19. <http://www.alps-magazine.com/architektur-wohnen/gion-a-caminada-vrin-strick-ist-schick/>, accessed November 15, 2016.
20. http://ch.worldmapz.com/photo/124626_en.htm, accessed November 15, 2016.

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21. <http://www.archdaily.mx/mx/02-279428/parque-de-piedra-tosca-rcr-arquitectes>, accessed November 6, 2016.
22. <http://afasiaarchzine.com/2016/10/rcr-17/>, accessed November 6, 2016.
23. <https://www.dezeen.com/2007/02/14/piedra-tosca-park-by-rcr-arquitectes/>, accessed November 6, 2016.
24. <http://afasiaarchzine.com/2016/10/rcr-17/>, accessed November 6, 2016.

4.0 TEACHING AIMS

The aims of this course are to:

Advanced Design 1 is the integrated design project for the MArch(Prof). Students are required to address a challenging and conceptually complex architectural design and to achieve a fully resolved design project, together with developed design studies sufficient to explain the proposed building's construction, structure, materials and natural environmental performance. A report is required to elucidate the design.

Emphasis will fall upon the development of strategic responses to differing, changing or extreme environmental conditions. Focus on site, thermal, natural environment, material and ecological issues.

5.0 LEARNING OUTCOMES

General ARCHDES700 Course Outcomes

On successful completion of this course, students should be able to:

- Theory: Show evidence of development of critical thinking and conceptual consistency throughout the design process.
- Architectonics: Demonstrate abilities to advance conceptual thinking and design propositions through identifying and addressing issues of materiality, structure and construction.
- Performance: Show abilities to advance conceptual thinking and design propositions through interrogating and addressing in depth the natural environmental, contextual, and programmatic factors underlying the project.
- Form and Space: Demonstrate skill in the development of three dimensional architectural form and space, both exterior and interior.
- Media: Display skill in the communication and development of conceptual, preliminary and developed design propositions through the strategic use of architectural media.

Specific Topic Outcomes

This studio topic will engage the general course outcomes in the following ways:

- Theory: engage with 'the alpine' in terms of the natural and cultural landscape through research and in study visits in order to incorporate into the final project specific architectural thinking both conceptually as well as specifically in relation to the context.
- Architectonics: engage with the exceptional circumstances of designing for an oblique datum and/or demonstrate how the design responds to exposed and harsh conditions. Demonstrate how, specifically, the structural assemblage and the main materials of your architectural proposition were influenced by the location and context of the project.
- Programme: engage with interrelationship between the immediate site context, the self-selected building role and program, and the larger site/topography. Conversely, engage with how the design of the immediate landscape might be influenced by the architectural program.
- Performance: engage with the environmental, meteorological context and demonstrate how the design of the internal performance, as well as immediate surrounds, of your project has been influenced by the surrounding conditions.
- Form and space: carry out a critical analysis of possible interrelationships landform and architectural form, between possible orientations, and between possible relationships (or otherwise) of exterior architectural form and interior volumes.
- Media: effective visual and aural presentation of your work, clearly communicating the main aspects of the design.

6.0 COURSE STRUCTURE AND CONTENT

Meeting	16/11/16	- introduction alpine architecture: modern (30 mins) and then meet to pin-up and present/discuss theories and precedents
Meeting	23/11/16	- introduction alpine architecture: recent (30 mins) and then meet to pin-up and present/discuss theories and precedents and discuss preparatory exercises, itinerary research, contribution to 017-AS guide handout
Deadline	10/12/16	- project proposal by CANVAS or email and group digital model of the site due
Meeting	23/02/17	- summer research precedents (x4) and revised AD1 precedent due and present to group - theoretical/conceptual research topic present to group and precedent research and concept models and sketches presentations
Meeting	02/03/17	<u>Design Concept Models + Research Topic Presentation</u> - present a specific research topic of local cultural, economic, political or recreational relevance to Scharnitz. Mine information on topic - present conceptual models (x2) and drawing or series of sketches to accompany each model - mapping greater site. Tile printed site information at A1 @ 1:1000. Connect significant features for individual projects identify points and map connections/nodes to determine project sites

Week	Date	Topic
Week 1	06/03/17 07/03/17 10/02/17	<u>Project Development + Working Model + A1 Draft Poster</u> - Monday 1:00pm (group) tutors briefly present design paper, themes, ideas and expectations, - Monday 1:30pm (group) topic presentation and site mapping and final decision on site 1:1000 site plan schematic development - Tuesday 1:00pm (group) brief for working model and working site model - Tuesday 1:30pm (individual sign up) sketches and schematic development, and 1:1000 site plan development - Friday 1:00pm (group) draft poster proposed layout and section(s) discussion - Friday 1:30pm (individual sign up) sketches, schematic development, 1:1000 site plan development and 1:200/500/1000 section(s) proposal to tutors
Week 2	13/03/17 14/03/17 17/03/17	<u>Project Crit + A1 Poster Production</u> - Monday 1:00pm (group) final draft project design crit and discussion as a group, schematic development, sections and final 1:1000 site plan production - Tuesday 1:00pm (group) 1:200 model discussion - Tuesday 1:30pm (individual sign up) final design for crit at Univeristät Innsbruck, draft poster layout discussion and 1:200 model proposal to tutors - Friday 1:00pm (individual sign up) final draft poster crit with all drawings started (to be finished over weekend)
Week 3	20/03/17 21/03/17 24/03/17	<u>A1 Poster Printing + Presentation Model Production</u> - Monday 1:00pm (group) get final A1 poster printed and instruction for the week - Monday 1:30pm (individual sign up) develop final 1:200 model with tutors - Tuesday 1:00pm (individual sign up) develop final 1:200 model with tutors - Tuesday 5:00pm (group) A1 poster submission due (to be put into group scroll for transport to Innsbruck, if late, students are responsible for transport) and develop final model (to be transported to Innsbruck by students) - Friday leave Auckland, meet at Group Check-In counter, International Terminal, Auckland Airport
Week 4	27- 02/04/17	<u>Alpine Architecture Study Tour + Mid-Semester Concept Crit (date tba)</u> - Monday 10:00am (group) Univeristät Innsbruck orientation - Tuesday 10:00am (group) crit at Univeristät Innsbruck (date tba) - Wednesday 10:00am (group/individual sign up) site visits, schematic development and sketches - Thursday 10:00am (group/individual sign up) site visits, schematic development and sketches - Friday-Sunday individual meetings with students during bus rides to review crit feedback, notes and recordings
Week 5	03- 09/04/17	<u>Alpine Architecture Study Tour + Travel (Suisse-France)</u> - Monday-Sunday 10:00am-6:00pm concept and schematic development in

		sketch books, and tutor meetings and free discussion during bus trips
Week 6	10-16/04/17	<u>Alpine Architecture Study Tour + Draft Design Report + Travel (France-Suisse-Italia)</u> - Monday-Sunday 10:00am-6:00pm concept and schematic development in sketch books, and tutor meetings and free discussion during bus trips - Thursday 11:00pm draft Design Report submission due, uploaded to google drive (on same day as mid semester crits at University of Auckland)
Week 17-	23/04/17	MID-SEMESTER BREAK <u>Alpine Architecture Study Tour + Travel (Italia-Austria)</u> - Monday-Sunday 10:00am-6:00pm concept and schematic development in sketch books, and tutor meetings and free discussion during bus trips
Week 24-	30/04/17	<u>Alpine Architecture Study Tour + Developed Concept Crit (date tba) (Austria-Deutschland)</u> - Monday 10:00am (group) discussion for crit presentation preparation - Tuesday 10:00am (group) developed concept crit at Univeristät Innsbruck (date tba) - Wednesday 10:00am (individual sign up) individual meetings with students during bus rides to review crit feedback, notes and recordings - Thursday 10:00am (group/individual sign up) site visits, schematic development and sketches - Friday 10:00am (group/individual sign up) site visits, schematic development and sketches - Sunday leave for Auckland
Week 7	02/05/17 05/05/17	<u>Development</u> - Monday arrive in Auckland - Tuesday 1:00pm (group) discussion outlining next month until final crit and asking for final drawing and model list - Tuesday 1:30pm (individual sign up) schematic development based on crit feedback - Friday 1:00pm (individual sign up) project-specific drawing and model list proposal to tutors and schematic development based on crit feedback
Week 8	08/05/17 09/05/17 12/05/17	<u>Development</u> - Monday 1:00pm (group) concise site analysis and observed ideas discussion and diagramming to clarify concept - Monday 1:30pm (individual sign up) final project-specific drawing and model list and scheme development - Tuesday 1:00pm (individual sign up) scheme development - Friday 1:00pm (group) discussion - Friday 1:00pm (individual sign up) scheme development

Week 9	15/05/17	<u>Refinement + Writing workshop with Chris Barton</u>
	16/05/17	- Monday 1:00pm (group) final decision on scheme, materiality and arrangement discussion
	19/05/17	- Monday 1:30pm (individual sign up) scheme refinement and presentation site plan (1:1000)
		- Tuesday 1:00pm (individual sign up) scheme refinement and presentation site plan (1:1000)
		- Friday 1:00pm (group) discussion
		- Friday 1:30pm (individual sign up) scheme refinement and presentation site plan (1:1000)

Week 10	22/05/17	<u>Completion and production + Design Report Due</u>
	23/05/17	- Monday 1:00pm (group) presentation method discussion and examples shown by tutors
	26/05/17	- Monday 1:30pm (individual sign up) presentation plans, models, section(s), diagrams and visuals
		- Tuesday 1:00pm (individual sign up) presentation plans, models, section(s), diagrams and visuals
		- Thursday final AD1 Design Report Due (details tba)
		- Friday 1:00pm (group) discussion
		- Friday 1:30pm (individual sign up) presentation plans, models, section(s), diagrams and visuals

Week 11	29/05/17	<u>Completion and production</u>
	30/05/17	- Monday 1:00pm (group) speaking and oral presentation discussion
	02/06/17	- Monday 1:30pm (individual sign up) presentation site plan (1:1000@A1), site model (1:500/1000), model (1:100/200), plans (1:200/500), sections (1:200 and 1:500/1000), diagrams and visuals
		- Tuesday 1:00pm (individual sign up) practice oral presentation
		- Friday 1:00pm (individual sign up) final tutor session, drawing and model checklist

Week 12	05-09/06/17	<u>Final presentation</u>
		- Monday - no session on Queen's Birthday
		- Tuesday-Friday final crit at University of Auckland (date tba)
		<u>Output Requirements (scales of drawings to be discussed with tutors)</u>
		- 500 word Design outline (integrated into presentation, based on design report)
		- 1:5,000/10,000 Location Plan
		- 1:1,000 Site Plan
		- 1:100 Plans of all levels
		- 1:1,000 Section
		- 1:100 Sections of all levels
		- 1:5/10 Architectural detail
		- 1:200 and 1:1,000 Physical models (as required by project)
		- Small model to fit on group physical site model (as required by project)
		- 2+ Visuals/perspectives of architectural experience and landscape
		- 2+ Visuals/perspectives of interior experience

- Any other material that the students deems to be critical to the understanding and communication of their project eg sketchbooks, samples, prototypes, newspapers, etc

7.0 LEARNING RESOURCES

All program learning resources or references to learning resources are available on the 017-AS Google Docs Folder.

7.1 Required Reading

None

7.2 Recommended or Supplementary Reading

Alexander, Christopher. A New Theory of Urban Design, with Neis, Anninou, and King. (1987)
Allen, Stan. Landform Building
Allen, Stan. Points and Lines
Atelier Bow Wow. Behaviorology.
Bachelard, Gaston. The Poetics of Space.
Cosgrove, Denis. High Places: culture geographies of mountains, ice and science.
Cullen, Gordon. (The Concise) Townscape. (1961)
de Botton, Alain. The Architecture of Happiness.
de Rossi, Antonio. Modern Alpine Architecture.
Finerie, Christoph Mayr. New Alpine Architecture.
Gehl, Jan. Life Between Buildings: Using Public Space, translated by Jo Koch, Van Nostrand Reinhold. (1987)
Kuma, Kengo. Material Immaterial: the new work of Kengo Kuma
Mollino, Carlos. Carlos Mollino 1905-1973.
Reiser + Umemoto. Atlas of Novel Tectonics.
Sitte, Camillo. City Planning According to Artistic Principles. (1889)
Taut, Bruno. Alpine Architecture.
Zumthor, Peter. Atmospheres.
Zumthor, Peter. Thinking Architecture.

Documents from the Permanent International Secretariat:
(available from http://www.alpconv.org/archive/index_en)
Alpine Convention
Alpine Hydropower
Climate Change in the Alps
People and Pressures in the Mountains
Report on the state of the Alps
The Alps facing the challenge of changing water resources

7.3 Other Materials or Software

7.4 Use of Canvas

[e.g. posting of lecture material]

7.5 Other Assistance / Student Support Available

8.0 INCLUSIVE LEARNING

Students are urged to discuss privately any impairment-related requirements face-to-face and/or in written form with the course convenor/lecturer and/or tutor.

9.0 OTHER INFORMATION

The 017-AS program has an unusual teaching arrangement with mandatory meeting in November, a presentation deadline on 1 December and studio meetings starting 24 February. This schedule is designed in order that there is peer learning and tutor contact to support your progress towards a preliminary design proposal poster and model by the end of the second normal week of first semester. This pace of progress in your studio work is essential to make significant process by the first and second project reviews at the University of Innsbruck. The overseas component of 017-AS has specific participation conditions and obligations which you will already have signed. During the 20-day study tour you are expected to present project development sketches to at least one of your design tutors each week on the bus. Upon return to Auckland the normal schedule of tutoring and reviews are resumed.

10.0 ASSESSMENT

10.1 Method of Assessment

100% coursework

All student work is assessed by the named staff member(s) offering each course topic, who are appointed as examiners. Provisional grades are confirmed at an examiners' review of the work of all students in that particular design course, in order to ensure parity of grading standards across course topics. All marks are indicative until confirmed in the Design Grading Moderation Review. All work presented for Advanced Design 1 is also reviewed by external assessors.

10.2 Assessment Criteria

Detailed information on assignment format and assessment criteria are provided below. The grading of work is based on the NICA Grade Descriptors printed on the Faculty website: <https://cdn.auckland.ac.nz/assets/creative/for/current-students/course-planning-enrolment/Planning-and-enrolment-assets/NICA%20grade%20descriptors.pdf>.

In addition to the criteria set out in the School handbook, assessment will be based on the following:

- Theory: Quality and consistency of conceptual and critical thought throughout the design process.
- Architectonics: Quality of design development through the creative engagement with issues of materiality, structure and construction.
- Performance: Depth of understanding of, and extent of design development demonstrated through creative engagement with, relevant natural environmental, contextual and programmatic factors underlying the project.
- Form and Space: Level of skill demonstrated in the development of three dimensional architectural form and space, both exterior and interior.
- Media: Quality of presentation, clarity of communication, appropriateness of media strategy and level of skill displayed through the work presented at all stages of the design process.
- Quality of engagement in studio – singularly, in group discussions and in formal crits. Attendance in studio and for the duration of crit days is mandatory – students are expected to support and learn from their colleagues.

Specific topics will weight the factors presented above according their identified emphases.

10.3 Academic Integrity

The University of Auckland will not tolerate cheating, or assisting others to cheat, and views cheating in coursework as a serious academic offence. The work that a student submits for grading must be the student's own work, reflecting his or her learning. Where work from other sources is used, it must be properly acknowledged and referenced. This requirement also applies to sources on the world-wide web. A student's assessed work may be reviewed against electronic source material using computerised detection mechanisms. Upon reasonable request, students may be required to provide an electronic version of their work for computerised review.

10.4 Attendance and Participation

Attendance in class as well as engagement with course activities and readings supports academic success. Therefore it is strongly recommended that students make every effort to attend class and complete all the necessary in-class requirements.

10.5 Output Requirements

Abstract: All AD1 students are required to furnish a Design Report. This will take the form of a 350-400 word abstract. An abstract is a condensed piece of writing that highlights the major aspects of your design project: the content, context, scope and outcomes of the design research. The abstract should be a finely crafted piece of text accompanied by a single image of your project. A template will be given and all abstracts must be submitted in the template both in print and in digital format (venue TBC). Draft to be submitted for mid-semester crits. Workshops on writing will be held in Week 4. All final Design reports are due on Thursday May 25th so that they can be published and circulated to your critics well ahead of crit week.

11.0 STUDENT FEEDBACK

Students will be asked to complete an evaluation of the course at the end of the semester, usually on the morning of final presentation.

12.0 UNIVERSITY POLICIES AND GUIDELINES

This course is based on the university policies and guidelines. For further information, see the University and Faculty websites. On the Faculty website, the 'Quick Reference Guide for New Students' provides useful information on such things as key dates, where to go for help and advice, personal support and academic policies and procedures.

Students must note the following warning that applies to all material provided for this course. This includes printed material and electronic material, and material posted on Canvas. If you are not sure about the requirements, ask for clarification from the course coordinator.

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