**SCHOOL/DEPARTMENT: Architecture & Planning**

**COURSE OUTLINE: ARCHDES300 / Semester 1, 2017**

* **GENERAL COURSE INFORMATION**

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| **Course Code:** | ARCHDES300 |
| **Course Title:** | Design 5 |
| **Points Value:** | 30 points |
| **Prerequisites:** | ARCHDES200 or 210 |
| **Restrictions:** | ARCHDES310 |
| **Course Director:** | Prof Andrew Barrie, Room 335, Building 421, a.barrie@auckland.ac.nz |
| **Course Co-ordinator:** | Aprof Uwe Rieger, Room 544, Building 421, u.rieger@auckland.ac.nz> |
| **Teaching Staff:** | Michael Milojevic and Matt Liggins |

**2.0 CLASS CONTACT HOURS**

Monday, Tuesday & Friday, 1pm – 5pm; Level 4 Design Studios, Building 421.

**3.0 COURSE PRESCRIPTION**

The Collected: An introduction to a complex architectural thinking. Examines both conceptual and exceptional spaces and develops an understanding of the corresponding architectural systems.

**BUILDING WITH ALTITUDE**

**OBERGURGL ALPINE RESEARCH CENTRE**



The D5 component of the 017-AS Vertical Studio is a project for an addition to the University

of Innsbruck Obergurgl Alpine Research Centre in the Ötztal in the Tyrolean Alps. The AFO\_UI,

since it’s establishment in 1951, has been a base for field work and research space, and a site for

convening meetings and training programs in environmental science and high performance sports.

The AFO\_UI conducts long-term studies on the topography, micro-climate and ecology of the

valley and the high alpine zone which was officially established as a place of exceptional

natural value and given special protection.

The general alpine theme and Ötztal context aligns with both the collected theme and complex thinking of D5 in a multitude of ways related to theory & topography, spatiality & communication, contextual & sociological, the specific architectonic and material demands of alpine conditions.

We would like to see your individual take on your own research into different alpine related themes, concepts, narratives, historical events, alpine sports, predictive futures and scientific research, all which will be weaved together into a built proposal that has a meaningful relationship to the Obergurgl site.

**4.0 TEACHING AIMS**

The aims of this course are to:

Design 5 presents *a*n introduction to complex architectural thinking. It examines both conceptual and exceptional spaces and develops an understanding of corresponding architectural methodologies and systems. Topics will explore the cutting edge of architecture, with an individual emphasis on the theoretical, contextual, architectonic, communicative, material, spatial, sociological or topographical.

**5.0 LEARNING OUTCOMES**

**General ARCHDES300 Course Outcomes**

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

* Theory: Show evidence of engagement with selected / prescribed areas of architectural theory and knowledge. Further, to show evidence of the exploration of the possible influence of this upon the development of architectural propositions.
* Architectonics: Demonstrate abilities to project, explore and develop the tectonic characteristics of the project through the creative engagement with material, structural or constructional propositions.
* Programme: Show evidence of engagement with identified cultural, social and functional positions as they might inform speculative architectural propositions.
* Performance: Show abilities to advance conceptual thinking through engagement with environmental and contextual conditions that could bear upon the project, and to examine the way in which the architecture may affect those same conditions in return.
* Form and space: Demonstrate abilities to develop speculative three dimensional architectural form and space.
* Media: Display skill in the communication and development of design propositions through the considered use of architectural media.

**Specific Topic Outcomes**

* 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 specific

contexts

* Programme of Site and Building: engage with interrelationship between the immediate

site context, the self-selected building role and program, and the larger site/topographic.

Conversely engage with how the design of the immediate landscape context might be

influenced by the architectural program.

* Form and Space: engage with a critical analysis of the possible interrelationships

landform and architectural form, between the possible orientations, and between the

possible relationship, or not, of exterior architectural form and the interior volumes.

* 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, context of the project.

* 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.

* Media: Demonstrate how the way in which you present your work visually and aurally

engages the most effective means to communicate your main design

**6.0 COURSE STRUCTURE AND CONTENT**

**Pre studio meetings:**

Nov 3 - Introduction vertical studio and introduction year groups studio: tutors, topics,

schedules, and sites

Nov 9 - Introduction alpine architecture: premodern [ 30 mins ] and meet in year

groups studio for topic outline presentation and discussion and assignment of

research into alpine-related theory, history and precedents as well as

programs

Nov 16 - Introduction alpine architecture: modern [ 30 mins ] and then meet in groups

to pin-up and present/discuss your 6 theories / precedents

Nov 23 - Introduction alpine architecture: recent [ 30 mins ] and then meet in groups to

to pin-up and present/discuss your 3 theories / precedents and discuss

preparatory exercises, itinerary research, contribution to 017-AS guide

handout and expectations for a parti on 24 feb

Feb 23 - Theoretical, conceptual and precedent research of at least one selected

concept with parti and with 3 concept models for presentations

Mar 3 - Development Concept outline poster and working model presentation

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| **Week** | **Date** | **Topic** |  |
| Week 1 | 6.03.2017 | First project development |  |
| Week 2 | 13.03.2017 | Final draft first project design presentation and review |  |
| Week 3 | 20.03.2017 | Final poster and model sign-off for submission and departure for Innsbruck |  |
| Week 4 | 27.03.2017 | University of Innsbruck orientation, site visits and concept crit |  |
| Week 5 | 03.04.2017 | Western sector Alpine architecture study tour  Central sector Alpine architecture study tour |  |
| Week 6 | 10.04.2017 | Eastern sector Alpine architecture study tour |  |
|  |  | MID-SEMESTER BREAK |  |
| Week 7 | 17.04.2017 | Design development |  |
| Week 8 | 24.04.2017 | Design development |  |
| Week 9 | 01.05.2017 | Design development |  |
| Week 10 | 08.05.2017 | Design development |  |
| Week 11 | 15.05.2017 | Design completition |  |
| Week 12 | 22.05.2017 | Final Presentation |  |

**7.0 LEARNING RESOURCES**

**7.1 Required Reading**

None

**7.2 Recommended or Supplementary Reading**

[ IN ADDITION TO THE FOLLOWING ITEMS PLEASE SEE ESPECIALLY MONOGRAPHS ON

ARCHITECTS WITH ALPINE PROJECTS AND THEIR PRACTICE WEBSITES ]

Acocella, Alfonso w Eng transl. Alice Fisher and Patrick John Barr. Stone Architecture: ancient and

modern construction skills. Milano: Skira, 2006.

Albrecht, Robert. "Mountain Lodge Roof Design in the Arctic-Alpine Zone." Northern Engineer, Vol. 14,

No. 3: 11-13.

Alder, M. and Giovanoli, D. Soglio: Siedlungen und Bauten / Insediamenti e construzioni. Basel and New

York: Birkhäuser, 1997.

Allen, Stan and Marc McQuade eds. Landform Building: Architecture's New Terrain. Princeton, N.J.:

Lars Müller Publishers, 2011.

Anati, E. La préhistoire des Alpes. Les Camuniens, aux racines de la civilisation européenne. Milan,

Jaca Book, 1982.

Anati, E. L'art rupestre dans le monde. L'imaginaire de la préhistoire. Paris, Larousse-Bordas, 1997

anon. "Roughing it Back Towards Sanity." Life Magazine, Vol. 73, No. 17, (Oct. 27, 1972): 60-69

anon. "Schauss Architecture." Progressive Architecture, Vol. LXVIII, No. 7, (July 1967): 138-151.

anon. "Ski Resorts: Building Types Study 456." Architectural Record, Vol. 155, No. 1, (Jan. 1974): 141-

156

anon. "Two New French Towns by Marcel Breuer and Robert F. Gutie." Architectural Record, Vol. 146,

No. 2, (Aug. 1969): 101-109

Architecture in Austria: a Survey of the 20th Century [ contributors: Otto Kapfinger, Dietmar Steiner,

Adolph Stiller, Sasha Pirker, Jaime Salazar, Marion Kuzmany ]. Wien/Basel: Architektur Zentrum

Wien/Birkhäuser, 1999.

[ The ] Austrian Phenomenon [ Architektur Avantgarde Österreich 1956-1973 ]. Wien: Architektur

Zentrum Wien, 2009.

Blaser, Werner. Der Fels is mein Haus. [The Rock is My Home]. Zurich: WEMA, 1976.

Blaser, Werner. Holz Haus. [Wooden Houses]. Basel: Wepf and Co., 1980.

Bugge, Gunnar and Norberg-Schulz, Christian. Stav og Loft i Norge. Oslo: Bugge Kunst, Norske

Arkitekters Landsforbund, 1969.

Cereghini, Mario, trnsltn Lucia Krasnik. Building in the Mountains. Milano: Edizioni del Milione, 1957.

Dana, William Sumner Barton (1913), The Swiss Chalet Book; A Minute Analysis and Reproduction of

the Chalets of Switzerland, Obtained by a Special Visit to That Country, Its Architects, and Its

Chalet Homes. New York: W.T. Comstock, 1913. [also a Nabu Press reprint 2009] [ARCH LIB

Storage Historical Collection]

De Rossi, Antonio. Modern Alpine Architecture in Piedmont and Valle d’Aosta / Architettura alpina

moderna in Piemonte e Valle d’Aosta. Torino and New York: U. Allemandi, 2006.

Deering, Jr., Thomas P. Mountain Architecture: An Alternative Design Proposal for the Wy'East Day

Lodge, Mount Hood Oregon.

Douglas, William O. Of Men and Mountains. Seattle: Seattle Book Co. 1981.

Fingerle, Christoph Mayr, ed. Neues Bauen in den Alpen : Architekturpreis 2006 = Architettura

contemporanea alpina : premio d’architettura 2006 = New Alpine architecture : architecture prize

2006. Basel and Boston: Birkhäuser, 2008.

Frampton, Kenneth. A New Wave of Austrian Architecture. New York, N.Y. : Institute for Architecture

and Urban Studies, 1980.

Futagawa, Yukio. Arapusu no Mura To Machi. [Villages and Towns, 6: Alps]. Tokyo: A.D.A. Edita, 1973.

Futagawa, Yukio. Wooden Houses. New York: Harry N. Abrams, Inc., 1978.

Gilpin, William. Three Essays: On Picturesque Beauty, On Picturesque Travel; and on Sketching

Landscape: With a Poem on Landscape Painting, 3rd ed. London: T. Cadell and W. Davies,

Strand, 1808.

Hansen, Hans Jurgen. Holzbaukunst. Hamburg: Gerhard Stalling, 1969.

Harmon, Byron. Great Days in the Rockies: The Photographs of Byron Harmon. Toronto: Oxford

University Press, 1978.

Hartman, James. "Architectural Design in Heavy Snow Country. [unpublished University of Washington,

Masters of Architecture thesis, 1976]

Hauser, Sigrid essays ed.; Helene Binet photographer; Eng transltn: Kimi Lum and Catherine Schelbert].

Peter Zumthor Therme Vals. Zurich : Scheidegger & Spiess, 2007.

Hochstetter, Ferdinand von, Ferdinand v. Hochstetter’s gesammelte Reise-Berichte von der

Erdumsegelung der Fregatte "Novara," 1857-1859. Mit einer Einleitung und einem Schlusswort von

V.v. Haardt, einem Portrait Ferdinand v. Hochstetter’s in Heliogravure und einer Uebersichtskarte

der Reise-Route. Wien, E. Hölzel, 1885.

Hochstetter, Ferdinand von und Petermann, August Heinrich. Geologisch-topographischer Atlas von

Neu-Seeland. [S.l. : s.n. 1863?] [GEN LIB SPEC COLLTNS NZ Glass Case 559.5 H68g maps]

[England translation: Geological and Topographical Atlas of New Zealand: six maps of the

provinces of Auckland and Nelson. Auckland: T. Delattre, 1864. [GEN LIB SPEC COLLTNS NZ

Glass Case 559.5 H68U]

Hochstetter, Ferdinand von. Neu-Seeland. Stuttgart: Cotta, 1863. [GEN LIB SPEC COLLTNS NZ Glass

Case 919.5 H685] published in English as New Zealand: its physical geography, geology, and

natural history: with special reference to the results of government expeditions in the provinces of

Auckland and Nelson (1867).

Jacquet, Pierre. The Swiss Chalet. Zurich: Orell Fussli, 1963.

Johnston, Pamela. The Function of the Oblique: the architecture of Claude Parent and Paul Virilio 1963-

1969. London: Architectural Association AA Publications c1996.

Joye, Philippe. Neue Schweizer Chalets. Munchen: Georg D. W. Callwey, 1966.

Kaiser, Harvey H. "The Adirondack Rustic Style." Old House Journal, Vol. 11, No. 7, (Jan.-Feb. 1983): 1, 30-33.

The Great Camps of Adirondacks. Boston: David R. Godine, 1982.

Kalman, Howard. The Railway Hotels and the Development of the Chateau Style in Canada. Victoria

B.C.: Maltwood Museum, University of Victoria, 1969.

Keller, Ferdinand. The Lake Dwellings of Switzerland and other parts of Europe. London, Longmans,

Green, and Co., 1878.

Kennish, Katharine. The Mountain House. Midland, Mich.: Northwood Institute Press, 1981.

Kestle, Linda. Buildings and Building Design Practices in the High Altitude Alpine Regions of Tongariro

National Park. [unpublished University of Auckland MPhil Architecture thesis] 1995.

Kos, Wolfgang, ed. Alpenblick. Die zeitgenössische Kunst und das Alpine. [Exhbtn Cat / Ausst. Kat.

Kunsthalle Wien. Wien: Stroemfeld/Roter Stern, 1997.

Kundig, Thomas W. "Gesundes Dorfli im Girmspiel." Master's Thesis (Architecture). University of

Washington, 1981.

Ligniti, Emily. Massimo Scolari: The Representation of Architecture. Milano: Skira, 2012.

McHarg, Ian L. Design with Nature. Garden City, N.Y.: Doubleday and Co., 1969.

Menotti, Francesco ed. Living on the Lake in Prehistoric Europe: 150 years of Lake-Dwelling Research.

London and New York: Routledge, 2004.

Menotti, Francesco. The Missing Period: Middle Bronze Age Lake-Dwellings in the Alps. Oxford:

Archaeopress, 2001.

Mollino, Carlo, ser. ed. Sergio Polano. Carlo Mollino, 1905-1973. Milano : Electa, 1989.

Muir, Allan and Doris. Building the Chateau Montebello. Gardenvale, Quebec: Muir Publishing Co.,

1980.

Nickolson, Marjorie Hope. Mountain Gloom and Mountain Glory: The Development of the Aesthetics of

the Infinite. Ithaca, N.Y.: Cornell University Press, 1959.

Norberg-Schultz, Christian. Genius Loci: Towards a Phenomenology of Architecture. New York: Rizzoli,

1979.

Olmsted, Frederick Law Jr. "Yosemite Valley and the Mariposa Big Trees, A Preliminary Report, 1865."

Landscape Architecture, Vol. 43, No. 1, (1952): 12-15.

Parent, Claude. Vivre à l'oblique. Paris: L'Aventure Urbaine, 1970 also Paris: Jean-Michel Place, 2008

Pelkonen, Eeva-Liisa. Achtung Architektur!: image and phantasm in contemporary Austrian architecture

Cambridge, Mass: MIT Press,1996.

Rogatnick, Abraham. "Canadian Castles, Phenomenon of the Railroad Hotel." Architectural Review, Vol.

141, No. 843 (May 1967): 364-372.

Ruskin, John. Elements of Drawing. 1913. [GEN LIB 740 R95]

Ruskin, John edited by Edward Tyas Cook and Alexander Wedderburn, George Allen. The Works of

Ruskin. [Library Edition, 39 volumes, London, 1903-1912] 6:176-177. See also the digitally printed

facsimile reproduction The Complete Works of John Ruskin. Cambridge: Cambridge University

Press, 2009-2010. [39 vols] [FINE ARTS LIB Storage 759 R956wo]

Scolari, Massimo with Francesco Moschini. Massimo Scolari: Watercolors and Drawings 1965-1980.

London: Academy Editions, 1981.

Spier, Steven with Martin Tschanz and Christian Richters. Swiss Made: New Architecture from

Switzerland. London: Thames & Hudson, 2003.

Suzuki, Makoto and Futagawa, Yukio. Wooden Houses. New York: Abrams, 1979.

Svensson, Sigfrid. Hembygdens Arv. Stockholm: Nordisk Rotogravyr, 1929.

Taut, Bruno ed Matthias Schirren. Alpine Architektur: eine Utopie. München and New York: Prestel,

2004.

Thoreau, Henry David. Journals. Torrey and Allen, eds. 14 Vols (1906), Reprinted in 2 vols. New York:

Dover, 1962.

Thoreau, Henry David. Walking. The Harvard Classics, Essays English and American No. 28. New York:

P. F. Collier and Son, 1910: 407-438.

Vint, Thomas C. "Park Structures." Forms and Function of Twentieth-Century Architecture, Vol. 4, pp.

742-767. Edited by Talbot Hamlin. New York: Columbia University Press, 1952.

Weir, Jean Burwell. "Timberline Lodge: A WPA Experiment in Architecture and Crafts." Ph. D.

Dissertation (History of Art). University of Michigan, 1977.

Wright, Frank Lloyd. The Natural House. New York: Horizon Press, 1954.

Tuan, Yi-Fu. Topophilia: A Study of Environmental Perception, Attitudes and Values. Englewood Cliffs,

N.J.: Prentice-Hall Inc., 1974.

Varin, A. and E. L'Architecture Pittoresque en Suisse, ou choix de Constructions Rustiques,

half-title, 48 engraved plates, small folio, Paris, 1861.

Waechter-Böhm, Liesbeth, ed. with an essay by Otto Kapfinger. Austria West: Tirol, Vorarlberg: neue

Architektur = new architecture. Basel and Boston: Birkhäuser Verlag, 2003.

Zumthor, Peter. Thinking architecture. 3rd, expanded ed. Basel and New York: Birkhäuser, 2006.

Zumthor, Peter. Atmospheres: architectural environments, surrounding objects. Basel and New York:

Birkhäuser, 2006.

**7.3 Other Materials or Software**

**7.4** 017-AS Google Docs Folder

All program introduction and development pptxs and all academic meeting pptxs and all handouts

and other research docs are available on the 017-AS Google Docs Folder.

**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 arrangment 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 in order

to make significant process by the first and second project reviews iat the Univerdsity of

Innsbruck. The overseas component of 017-AS has specific participation conditions and

obligations which you will already have signed. In the course of 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.

**10.2 Assessment Criteria**

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

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

* Theory: Level of critical engagement with selected or prescribed areas of architectural theory and knowledge and the consideration of its bearing upon the design process.
* Architectonics: Ambition of the design project and the quality of design development through the creative engagement with material, structural and constructional issues.
* Programme: Quality of engagement with relevant cultural, social and functional issues to inform the pursuit of cutting edge architectural propositions.
* Performance: Extent of design development through the consideration of environmental and contextual conditions bearing upon the project.
* Form and Space: Quality of engagement with and development of speculative three dimensional architectural form and space.
* Media: Quality and clarity of presentation, the extent of design development facilitated by, and the consideration given to the architectural media utilised.
* 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**

21 March Check final draft iteration Developed Concept Crit A1 poster and 1:200 model

28 March Developed Concept Crit Innsbruck

28 April Mid-Semester Review Innsbruck

Mid May D5 Developed Design Cross-Crit Auckland with large group site model, final

siteplan, draft plans of all levels, 2 ea draft sections and elevations, draft

sectional project model

End May D5 Final Review siteplan, plans of all levels, 2 ea sections and elevations,

renders or equivalent indicating assemblage and materiality, site and

sectional project model

**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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