INTRODUCTION

Beginning in 2014, the Faculty and the Discipline of Architecture will be offering an exciting and unique suite of new research-based electives each semester and during certain intervals that interrogate architecture as a socio-political and representational tool for understanding the world. The electives will be available to junior, senior, and postgraduate students throughout the Faculty and University by permission.

The electives fit into a long ranging trajectory for the Faculty that positions architecture at the forefront of global debates concerning how the built environment engages with and responds to technologies of making, histories of seeing, and the crafting of intellectual histories.

Electives at all levels will respond to emerging practices in the field from a number of disciplines, perspectives, and chronologies based on the expertise of the individual staff members coordinating the units.

Architecture electives will be grouped into the following four broad themes:

Thinking
Writing
Representation
Making

An entering student has the option to follow one or more thematics over the course of their undergraduate and postgraduate curricula. For example, if you are interested in digital applications, it may be possible to join a theory seminar focused on histories of representation in Semester I and then complement this with a making unit that explores new techniques guided by robotics in Semester II. Alternatively, if you are primarily interested in pursuing the writing of architecture among histories and theories, you will have access to a collection of electives at all levels that encourage writing from a holistic point of view.

Within this new arrangement, it is hoped that all students will be able to tailor their own interests and pursuits in a far more engaged manner. While a number of current electives will remain available to all students, the new electives provide scope for pursuing specific topics and techniques that complement your ongoing work in other core and non-core units in the Faculty.

Intensives, including design-build opportunities, foreign travel and international curatorial roles, offered during interim periods will allow students to be challenged further afield in diverse locales and conditions.
THINKING

These electives explore the role of thinking about those processes specific to architecture and the built environment in a broad range of contexts including history/theory, urbanism and new conceptions for the making and display of architecture.

SEMESTER 1
The East Asian City: Past and Present Futures
ARCH9040
Undergraduate / Postgraduate
Dr. Peter Armstrong
This lecture-seminar, led by one of the foremost authorities on East Asian urbanism and architecture, offers students the opportunity to explore the complexities of the East Asian city including specific case studies in Korea, Japan and China, from an analytical and historical perspective. One outcome of this elective is to illustrate the global significance of building in and for the East Asian urban context over the next 25 years.

Architecture of Rome: Creation-Reception
BDES3030
Undergraduate / Postgraduate
Dr. Sean Anderson and Dr. Lesley Beaumont
From bath building to the Pantheon, from triumphal arch to Agia Sophia: the creativity, imagination and technical invention of Roman architects had an indelible influence on subsequent architectural construction and urbanism worldwide. In this unit you will learn about some of the most famous Roman monuments, and will come to understand their impact on later architecture. Taught jointly by an archaeologist and an architectural historian, this course interweaves the creation and reception of Roman buildings from antiquity to the present day.

SEMESTER 2
Site Specific Art / Expanded Architecture
AWSS2002 / DESA9009
Undergraduate / Postgraduate
Sarah Breen-Lovett
In this elective, students will explore expanded spatial practices from a curatorial perspective. These are practices, such as installation, moving image projection, and performance that underscore and intensify links to architecture. Throughout the semester students will develop a unique curatorial proposal for expanded spatial practices, as well as participate in the curatorial development and exhibition management of the Expanded Architecture exhibition.
Architecture can be understood as a combination of visual and spatial texts “written” by architects and historians alike. These electives focus on writing about and for architecture while crafting essential narratives that deepen one’s understanding of architecture from a critical perspective.
Drawing, modeling and visualization techniques have long been a dominant means for “seeing” architecture. These electives not only develop new tools and techniques for representing architecture but also allow for an understanding of those historical and theoretical models and their instantiation in various media.

**SEMESTER 1**

**The Architectural Image**

ARCH9039

Senior Undergraduate / Postgraduate

Dr. Simon Weir

The Architectural Image focusses on the “realistic image” as the principle means of contemporary architectural persuasion. Students will develop their knowledge of image perception, colour science and material effects, and apply this knowledge to the craftsmanship of large-scale hyper-realistic images of proposed buildings in complex real-world locations. In addition to representational techniques, students will develop a greater appreciation of building materials in their many inevitable states of decay, and reinforce the primacy of the human pedestrian viewpoint as the location of architectural aesthetic judgement. Upon completing this Unit of Study, students will have developed their capacity to produce realistic images of their building proposals, and as such will be of direct benefit to students in design studios and in their subsequent professional work.
Making

Like representation, architecture is essentially experienced through its making. These electives begin with the premise that making architecture is governed by a critical perspective and practice of those processes that reflect ongoing changes in technology, politics and society.

Semester 1
Architectural Detailing
ARCH9085
Senior Undergraduate / Postgraduate
Michael Muir and Dr. Francesco Fiorito

The process of detailing in the office and during construction is a fundamental part of architectural practice. Experience of the process can provide an invaluable learning experience for students of architecture. However, many students have no available path to builders or architects and access to operative building sites is generally limited by OH&S concerns. This studio-based elective will allow a small group of students access to current building projects to explore the role of the detail in design and building and in guiding not only a small component of a building’s construction but also its fundamental overall character.

The elective will link students to a particular architect, builder & domestic scaled project to study and document a series of details in the context of the whole building and provide access to the site under supervision to study construction methods and detailing in context.

Semester 2
Code to Production
ARCH9039
Postgraduate preferred / Senior Undergraduate by Application
Dr. Dagmar Reinhardt

Code to Production is an elective that explores the potential of an iterative design process from parametric variations; to analysis and simulation; to digital prototyping and manufacturing. The course has a two-fold agenda: to examine the performance of complex geometries available through sophisticated computational design processes, and to translate the optimised design by digital manufacturing into construction and prototype (CNC/robotic fabrication). Based upon the development of a series of controlled variations derived through parametric and scripting methods, the elective aims to further expand an understanding of structural and acoustic performance of these geometries.

It reviews an open system of design research in which design process, structural analysis and acoustic analysis are deployed to improve the acoustic and structural performance of complex spatial geometries, and derive detailed fabrication knowledge for architectural practice.

Structural Ornaments
ARCH9059
Postgraduate Only
Dr. Claudia Perren
To Be Determined
ART PROCESSES

The following unit descriptions and titles will be used to identify the current offering of Art Processes electives throughout 2014. From 2015 however, the units described below will become the core offerings in the Faculty and Discipline.

SEMESTER 1
Architectural Sketching and Drawing
AWSS1001
Various Staff
Most creative acts begin with picking up a pen or pencil and sketching on a piece of paper. Architectural Drawing and Sketching teaches drawing as an experimental tool that frees up the ability to dream, imagine and create. This elective will explore spatial dimensions, forms, shadows, perspective and line to develop student’s confidence with, and enjoyment of, drawing as a creative tool.

2D Processes
General Drawing AWSS2015
Screen printing on Paper AWSS 2026/DESA9012
Various Staff
2D Processes will explore how to create small print runs of handcrafted images through screen-printing, laser stencil prints and other print techniques. Students will learn how to transform their ideas into sets and multiples that can be used as posters, booklets, art works, or as printed elements within other creative projects.

3D Processes
Object Design AWSS2020/DESA9008
Sculpture AWSS2027/DESA9013
Site Specific Art AWSS2002/DESA9009
Cermamics AWSS2010/DESA9014
Various Staff

Still and Moving Images
Photography 1 AWSS 2023
Digital Video AWSS2013
Various Staff
Architecture has an intimate connection to film and photography. This elective will give students the opportunity to learn skills in connecting digital imagery – both still and moving – with the built environment. Students will create projected skins for buildings, learn how to capture and refine still images and develop a portfolio of their own creative work using Final Cut Pro, Photoshop and other digital image programs.

SEMESTER 2
2D Processes
General Drawing AWSS2015
Screen printing on Paper AWSS 2026/DESA9012

3D Processes
Object Design AWSS2020/DESA9008
Sculpture AWSS2027/DESA9013
Site Specific Art AWSS2002/DESA9009
Cermamics AWSS2010/DESA9014

Still and Moving Images
Photography 2 AWSS 2024/9011
Digital Video AWSS2013
Every academic year, during certain intervals, the Faculty and Discipline will offer design-based intensives in Australia and abroad allowing students significant hands-on experiences in diverse locations determined in part by the coordinators’ research interests.

**WINTER INTERVAL 2014**
**Curatorial Practice / Architecture and Art on Site and Non-Site in Berlin**
ARCH9087
Dr. Claudia Perren
The objective of this curatorial practice intensive is to investigate the relationship between architecture and art in institutional and non-institutional spaces. Students will examine selected art and architecture exhibitions to explore exhibition strategies, design principles, presentation/representation techniques and structural systems while simultaneously searching for alternative ways for engagement in art and architecture.

**Broken Hill**
ARCH9058
Professor Michael Tawa
Join colleagues from the School of Business to develop design briefs, business plans and architectural/urban/landscape propositions for the town of Broken Hill. Projects will respond to the real needs of a remote community that is in the process of reimagining its future and capitalising on its social, cultural, environmental and historical capital. The unit is taught in intensive mode. We spend a week researching the context and possible projects on campus, followed by a ten-day field trip during which the majority of coursework is completed and we present final projects to the Broken Hill City Council, both in the field and on return to Sydney.

**Santiago, Chile and Easter Island**
ARCH9086
Michael Muir and Various Staff
Postgraduate Preferred and Senior Undergraduate by Application
This design and build elective in bamboo construction is based in Indonesia as a joint initiative with Gajah Mada University in Jogjakarta. Working with a number of Indonesian architects and University of Sydney staff members students will initially take part in seminars and workshops in bamboo production and construction techniques followed by a design, model making and construction workshop with Effan Adhiwira, an Indonesian architect experienced in bamboo construction. The elective will be held in Bali and Jogjakarta and will include visits to a number of important architectural sites. Final costs and a proposed itinerary will be available late February.

Dr. Jennifer Ferng
Escuela de Diseño, Universidad Adolfo Ibañez, Santiago, Chile
Senior Undergraduates and Postgraduate
Working in conjunction with the School of Design at the Universidad Adolfo Ibañez in Santiago, Chile, the studio-based intensive will explore the technological and historical constructions that conceptually underpin a deeper understanding of the edges of a South American city, the Pacific Rim and landscape ecologies.
DESIGN INTENSIVES CONTINUED

SUMMER INTERVAL 2015
Sri Lanka [TBD]
Dr. Sean Anderson

A studio-based intensive that will allow students to work on-site at an ongoing building project as well as explore the histories of South Asian modernism. Students will visit significant historical and monumental sites including 20th century projects pioneered by the noted architects of the island including Geoffrey Bawa, Minette de Silva, Anjalendran and Channa Daswatte and their associates.
### SYDNEY COLLEGE OF THE ARTS ELECTIVES

In 2014, the following SCA electives will be available to both undergraduate and postgraduate students, at the Rozelle Campus.

<table>
<thead>
<tr>
<th>SEMESTER 1</th>
<th>SEMESTER 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAEL2041 The Art of Sound and Noise</td>
<td>CAEL2040 Drawing: The Medium of Translation</td>
</tr>
<tr>
<td>CAEL2042 Photography and the Darkroom</td>
<td>CAEL2043 Image/Object in photomedia</td>
</tr>
<tr>
<td>CAEL2039 Screen Arts: an Introduction</td>
<td>CAEL2044 Radical Rock Video</td>
</tr>
<tr>
<td>CAEL2039 Screen Arts: an Introduction</td>
<td>CAEL2045 Site Works: Sculptural interventions</td>
</tr>
<tr>
<td>CAEL2047 Animation</td>
<td>CAEL2046 Painting Music</td>
</tr>
<tr>
<td>CAEL2048 Investigating Clay</td>
<td>CAEL2039 Screen Arts: an Introduction</td>
</tr>
<tr>
<td>CAEL2049 Vessel as concept: Intro to hot glass</td>
<td>CAEL2049 Vessel as concept: Intro to hot glass</td>
</tr>
<tr>
<td>CAEL2050 Light and space: Introducing cast glass</td>
<td>CAEL2051 From Posters to Paste-ups</td>
</tr>
<tr>
<td>CAEL2053 Screen Printing: Introductory Workshop</td>
<td>CAEL2052 Introduction to Digital Publishing</td>
</tr>
<tr>
<td>CAEL2054 Silver-smithing: exoskeleton extension</td>
<td>CAEL2053 Screen Printing: Introductory Workshop</td>
</tr>
<tr>
<td></td>
<td>CAEL2055 Bodyworks: Jewellery as communication</td>
</tr>
</tbody>
</table>
POTENTIAL FUTURE ELECTIVE OFFERINGS [2015 AND BEYOND]

THINKING
Geopolitics and the Modern State
Symbolism of Sacred Architecture

WRITING
Architecture and Spatial Justice
Writing Architecture

REPRESENTATION
Architectural Drawing Otherwise
Architecture and Diagrams

MAKING
Robotic Fabrication
Geomimesis: Architecture and Lithology
Affirmative Architecture

DESIGN INTENSIVES
Urban Islands
Biome
The Temple Towns of South India
Morocco and the Maghreb
From Mass to Mosque: Italy and Turkey