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**nus architecture**  
**BA (ARCHITECTURE)**  
**COURSE INFORMATION**  
**FOR 2007/08 COHORT**

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## **4-Year B.A. (Architecture) (Hons.) Programme**

### **Career Opportunities and Professional Registration**

The B.A. (Arch) programme is the first degree in Architecture leading to the M.Arch professional degree. B.A. (Arch) graduates may join architectural firms or architectural departments of a government or statutory body. Opportunities in related fields include interior design, industrial design, industrialized building systems, graphic design, commercial art and architectural journalism. The B.A. (Arch) degree does not in itself qualify graduates for registration with the Board of Architects. B.A. (Arch) graduates may be considered for admission to the Master of Architecture programme or other academic graduate studies.

B.A. (Arch) graduates must proceed to the M.Arch programme in order to eventually register as an architect with the Board of Architects, Singapore. M.Arch graduates with a minimum of two years of practical experience in an architectural department of a government establishment, statutory board or architectural firm are eligible to sit for the Professional Practice Examination conducted by the Board of Architects, Singapore. Those who pass the examination are then eligible to apply for registration as architects.

The Bachelor of Arts (Architecture) is a 4-year direct honours programme leading to the following degree classifications: First Class Honours, Second Class Honours (Upper Division), Second Class Honours (Lower Division), Third Class and a Pass.

The B.A. (Arch) programme operates under the modular system which requires students to complete Essential Modules, General Education Modules (GEM), Singapore Study Modules (SS), Breadth (Elective outside student's Faculty) and Unrestricted Elective Modules (UE). The core subject is Design supported by a range of essential subjects to form the basic framework for a strong foundation programme in architectural studies under NUS policy. GEM, SS, Breadth and UEs widen the scope of intellectual pursuit. The course curriculum therefore comprises the University, School and Department Programme Requirements.

### **Chart 1: Curriculum Structure of 4-year B.A. (Architecture) Programme**

	<b>Modules</b>	<b>MCs</b>
	<b>UNIVERSITY REQUIREMENTS</b>	
	General Education Modules (GEM) comprising:	
	1 from Group A: Science & Technology	4
	1 from Group B: Humanities & Social Sciences - Which includes GEK1016 History and Theory of Modern Architecture	4

	Singapore Studies (SS)	4
	Breadth <sup>1</sup> (Elective modules outside SDE) -Which includes HR3003 (Management & Human Relations)	8
	<b>PROGRAMME REQUIREMENTS</b>	
	Essential modules taken within the Department	120
	Essential modules taken outside the Department	4
	<b>UNRESTRICTED ELECTIVES<sup>2</sup> (UE)</b> (within/outside SDE) - Which includes AR1221 (Ideas and Approaches in Design)	20
	<b>GRAND TOTAL</b>	<b>164 MCs</b>

<sup>1</sup>Breadths are modules which have to be read outside the faculty/ school.

<sup>2</sup> Unrestricted Electives are modules which the students can read within or outside their faculty/ school.

Additional breadths read over and above the University requirement would be converted to Unrestricted Electives.

See Concurrent B.A.(Arch.)/M.Arch. Programme

### **Architecture Concurrent Degree Programme**

#### **Streaming**

Under the Architecture Concurrent Degree Programme, students will indicate their choice of study towards the end of the 3<sup>rd</sup> year.

The following courses are offered and students are required to rank them according to their choice of study

- Architectural Design Track
- Design Technology and Sustainability Track
- Landscape Architecture Track
- Academic Track

The students will be streamed based on their preference and fulfilment of the admission requirements. Please see table 1

#### **Graduation Requirements for 4-year B.A. (Arch.) Programme**

Students have to take all essential modules offered in the semester to which they have progressed, provided they have passed the relevant prerequisites. In addition, they may take modules to satisfy University and other requirements.

#### Minimum Graduating criteria for

- BA (Arch): Min. Grade C for Design and CAP 2.0
- BA (Arch) Hons: Min. Grade C for Design and CAP 3.2

Students who exit the concurrent degree programme at B.A. (Arch.) Level 4 and consequently seek admission to M.Arch./M.LA would be required to fulfil a minimum CAP of 3.5 and other criteria governing admission as determined at the point of application

### Progression to M.Arch/M.LA under the Architecture Concurrent Degree Programme

The admission requirements for various tracks of the M.Arch and M.LA are summarized in Table 1.

Students would receive both B.A. (Arch.) Hons/ B.A. (Arch.) (depending on his/her CAP) and M.Arch/ M.LA degrees concurrently upon completing the Masters programme. The specialization of the course of study (if any) would be reflected in the transcript of the Masters programme.

A summary of the Architecture Concurrent Degree Programme is shown in Table 1 below

**Table 1**

Level 5 (Masters)	Master of Architecture			Master of Landscape Architecture	Master of Arts (Architecture) or Other NUS Graduate Courses
		with specialization in <b>Urban Design</b>	with specialization in <b>Design Technology &amp; Sustainability</b>		
<b>Admission Criteria to Level 5</b>	<ul style="list-style-type: none"> <li>Min C in AR4101 and AR4102</li> <li>Min CAP of 2.0</li> </ul>	<ul style="list-style-type: none"> <li>Min B+ average for AR4101 and AR4102</li> <li>Portfolio Review</li> <li>Min CAP of 2.0</li> </ul>	<ul style="list-style-type: none"> <li>Min B- average for AR4103 and AR4104</li> <li>Min CAP of 2.5.</li> </ul>	<ul style="list-style-type: none"> <li>Min B- average for LA4701 and LA4702</li> <li>Min CAP of 2.5.</li> </ul>	Subjected to admission criteria of Master of Arts(Architecture) or other NUS Graduate programmes
<b>Level 4 B.A (Arch)/ B.A (Arch) Hons</b>	Design Track		Design Technology & Sustainability Track	Specialization in Landscape Architecture	Specialization in Architectural Studies
<b>Special Terms 3 &amp; 4</b>				Bridging Course	
<b>Eligibility Criteria</b>	<ul style="list-style-type: none"> <li>Min B- average for AR3101 and AR3102</li> <li>Min B- for AR3102</li> <li>Creditable Pass in all modules</li> </ul>		<ul style="list-style-type: none"> <li>Min C grade for both AR3101 and AR3102</li> </ul>		
<b>Level 3</b>	Common program leading to RIBA Part 1				
<b>Level 2</b>					
<b>Level 1</b>					

## Listing Of Modules

The 4-year B.A. (Arch.) programme is structured as follows

**Chart 2a: B.A. (Arch.) Curriculum – Architectural Design Track**

← Common →							
Level 1		Level 2		Level 3		Level 4	
Sem 1	Sem 2	Sem 1	Sem 2	Sem 1	Sem 2	Sem 1	Sem 2
AR1101 Design 1 (8 MCs)	AR1102 Design 2 (8 MCs)	AR2101 Design 3 (8 MCs)	AR2102 Design 4 (12 MCs)	AR3101 Design 5 (8 MCs)	AR3102 Design 6 (12 MCs)	AR4101 Design 7 (8 MCs)	AR4102 Design 8 (8 MCs)
AR1121 Spatial-Visual Communicatn (4 MCs)		AR2221 H & T of SEA Arch. (4 MCs)	AR2223 Theory of UD & Planning (4 MCs)	AR3222 H & T of Western Arch. (4 MCs)		AR5011 Research Methodology (4 MCs)	
	AR1326 Arch. Constr I (4 MCs)		AR2326 Arch. Constr II (4 MCs)		AR3323 Arch. Constr III (4 MCs)		
PF2102 Structural Systems (4 MCs)	AR1721 Climatic Responsive Arch (4 MCs)	AR2723 Strategies for Sustainable Arch (4 MCs)	AR2724 Designing with Env'tal Systems (4 MCs)		AR3324 Architectural Structures (4 MCs)		
General Education Modules (GEM) – 8 MCs* Singapore Study Module (SS) – 4 MCs Breadth (Electives outside SDE) – 8 MCs** Unrestricted Electives (within/ outside SDE) (UE) – 20 MCs#							

\* GEK1016 History and Theory of Modern Architecture (Group B GEM) is a compulsory GEM to be read in Semester 1 of Year 1.

\*\* HR3003 Management & HR is a compulsory Breadth to be read in Semester 1 of Year 3

# AR1221 Ideas and Approaches in Design is a compulsory UE to be read in Semester 1 of Year 1

# Students who wish to proceed to the Master of Architecture course are required to take the following as Unrestricted Electives in Semester 1 of Year 4

- AR5321 Advanced Architectural Technology
- UD5221 Theory & Elements of Urban Design
- Another Unrestricted Elective As advised by the Department

**Students are not allowed to declare S/U option for GEK1016, HR3003 and modules indicated in #**

**Chart 2b: B.A. (Arch.) Curriculum – Design Technology and Sustainability Track**

Common							
Level 1		Level 2		Level 3		Level 4	
Sem 1	Sem 2	Sem 1	Sem 2	Sem 1	Sem 2	Sem 1	Sem 2
AR1101 Design 1 (8 MCs)	AR1102 Design 2 (8 MCs)	AR2101 Design 3 (8 MCs)	AR2102 Design 4 (12 MCs)	AR3101 Design 5 (8 MCs)	AR3102 Design 6 (12 MCs)	Students are required to read the following modules, completing one in each semester: a) AR4103 Architectural & Technology Design 1 (8 MCs) b) AR4104 Architectural & Technology Design 2 (8 MCs)	
AR1121 Spatial-Visual Communication (4 MCs)		AR2221 H & T of SEA Arch. (4 MCs)	AR2223 Theory of UD & Planning (4 MCs)	AR3222 H & T of Western Arch. (4 MCs)			
	AR1326 Arch. Constr I (4 MCs)		AR2326 Arch. Constr II (4 MCs)		AR3323 Arch. Constr III (4 MCs)	AR4322 Design Simulation and Analysis (4 credits)	
PF2102 Structural Systems (4 MCs)	AR1721 Climatic Responsive Architecture (4 MCs)	AR2723 Strategies for Sustainable Architecture (4 MCs)	AR2724 Designing with Envtal Systems (4 MCs)		AR3324 Architectural Structures (4 MCs)		
General Education Modules (GEM) – 8 MCs* Singapore Study Module (SS) – 4 MCs Breadth (Electives outside SDE) – 8 MCs** Unrestricted Electives (within/ outside SDE) (UE) – 20 MCs#							

\* GEK1016 History and Theory of Modern Architecture (Group B GEM) is a compulsory GEM to be read in Semester 1 of Year 1.

\*\* HR3003 Management & HR is a compulsory Breadth to be read in Semester 1 of Year 3

# AR1221 Ideas and Approaches in Design is a compulsory UE to be read in Semester 1 of Year 1

# Students who wish to proceed to the Master of Architecture are required to take the following as Unrestricted Electives in Year 4:

- AR5321 Advanced Architectural Technology (Semester 1)

- AR4323 Integrated Design & Sustainability (Semester 1)

- Another Unrestricted Elective as advised by the Department

**Students are not allowed to declare S/U option for GEK1016, HR3003 and modules indicated in #**

**Chart 2c: BA (Arch) Hons Curriculum – Landscape Architecture Specialization**

Common									
Level 1		Level 2		Level 3				Level 4	
Sem 1	Sem 2	Sem 1	Sem 2	Sem 1	Sem 2	Special Term 3	Special Term 4	Sem 1	Sem 2
AR1101 Design 1 (8 credits)	AR1102 Design 2 (8 credits)	AR2101 Design 3 (8 credits)	AR2102 Design 4 (12 credits)	AR3101 Design 5 (8 credits)	AR3102 Design 6 (12 credits)	LA3701 Intro to Landscape Design (4 credits)		LA4701 Landscape Design Studio 4a (8 credits)	LA4702 Landscape Design Studio 4b (8 credits)
AR1121 Spatial - Visual Communication (4 credits)		AR2221 H & T of SEA Arch (4 credits)	AR2223 Theory of UD & Planning (4 credits)	AR3222 H & T of Western Arch (4 credits)		LA3711 Sketchbook 1 (2 credits)	LA3712 Sketchbook 2 (2 credits)	LA4201 Theory of Modern Landscape Architecture (4 credits)	
	AR1326 Arch Constr I (4 credits)		AR2326 Arch Constr II (4 credits)		AR3323 Arch Constr III (4 credits)	LA3201 Intro to Hist of Landscape (4 credits)	LA3211 Tropical Plant Identification 1 (4 credits)	LA4301 Mat & Tech (4 credits)	LA4212 Tropical Plant Identification 2 (4 credits)
PF2102 Structural Systems (4 credits)	AR1721 Climate Responsive Arch (4 credits)	AR2723 Strategies for Sustainable Arch (4 credits)	AR2724 Designing with Environmental Systems (4 credits)		AR3324 Arch Structures (4 credits)		LA3301 Plant Sc & Hort (4 credits)		
General Education Modules (GEM) – 8 credits* Singapore Study Module (SS) – 4 credits Breadth (Electives outside Student's Faculty) – 8 credits** Unrestricted Electives (within/ outside Student's Faculty) (UE) – 20 credits#									

\* GEK1016 History and Theory of Modern Architecture (Group B GEM) is a compulsory GEM to be read in Semester 1 of Year 1.

\*\* HR3003 Management & HR is a compulsory Breadth to be read in Semester 1 of Year 3

# AR1221 Ideas and Approaches in Design is a compulsory UE to be read in Semester 1 of Year 1

# Students are required to take the following as compulsory Unrestricted Electives in 4<sup>th</sup> year:

- BL5102 Environmental Science (Semester 1)
- DE5107 Environmental Planning (Semester 2)
- LA4202 Planting Design (Semester 2)

**Students in Landscape Architectural Specialization will read a total of 192 modular credits. Modules taken in special terms 3 and 4 will be graded as CS (Completed Satisfactory) or CU (Completed Unsatisfactory). The grades will not be factored into CAP computation and do not count towards the 12 MCs limit for S/U modules**

**Students are not allowed to declare S/U option for GEK1016, HR3003 and modules indicated in #**

**Chart 2d: B.A. (Arch.) Curriculum – Architectural Studies Specialization**

Common							
Level 1		Level 2		Level 3		Level 4	
Sem 1	Sem 2	Sem 1	Sem 2	Sem 1	Sem 2	Sem 1	Sem 2
AR1101 Design 1 (8 MCs)	AR1102 Design 2 (8 MCs)	AR2101 Design 3 (8 MCs)	AR2102 Design 4 (12 MCs)	AR3101 Design 5 (8 MCs)	AR3102 Design 6 (12 MCs)	AR5312 Typo Morphology in Arch (4 credits)	AR4142 Research Report (8 credits)
AR1121 Spatial-Visual Communicatn (4 MCs)		AR2221 H & T of SEA Arch. (4 MCs)	AR2223 Theory of UD & Planning (4 MCs)	AR3222 H & T of Western Arch. (4 MCs)		AR4222 Asian Arch and Urban Hist (4 credits)	AR4223 Arch and Urban Heritage (4 credits)
	AR1326 Arch. Constr I (4 MCs)		AR2326 Arch. Constr II (4 MCs)		AR3323 Arch. Constr III (4 MCs)		
PF2102 Structural Systems (4 MCs)	AR1721 Climatic Responsive Arch (4 MCs)	AR2723 Strategies for Sustainable Arch (4 MCs)	AR2724 Designing with Env'tal Systems (4 MCs)		AR3324 Architectural Structures (4 MCs)		
General Education Modules (GEM) – 8 MCs* Singapore Study Module (SS) – 4 MCs Breadth (Electives outside SDE) – 8 MCs** Unrestricted Electives (within/ outside SDE) (UE) – 20 MCs#							

\* GEK1016 History and Theory of Modern Architecture (Group B GEM) is a compulsory GEM to be read in Semester 1 of Year 1.

\*\* HR3003 Management & HR is a compulsory Breadth to be read in Semester 1 of Year 3

# AR1221 Ideas and Approaches in Design is a compulsory UE to be read in Semester 1 of Year 1

# Students are required to take the following as Unrestricted Electives in Year 4

- AR5011 Research Methodology (Semester 1)

- Another 2 electives as advised by the Department

**Students are not allowed to declare S/U option for GEK1016, HR3003 and modules indicated in #**

#### **Student Workload**

Students are expected to read a minimum of 15 MCs during each semester. Students are not allowed to read more than 6 modules (including retakes but excluding English), whether essential, GEM, SS, Breadth or UE modules in each semester. Students who have not passed, or been exempted from the Qualifying English Test at the time of admission to the University must take an additional module, AR1000 English, by their third semester of study, i.e. level 2 Semester 1.

#### **Maximum Period of Candidature**

The maximum period of candidature is used as an indication of the ultimate period a student is allowed to spend at the University to fulfil the course requirements for the award of a degree. With effect from AY2007 intake, the maximum candidature for 4-year honours programmes will be 5 years. The period of approved leave of absence granted to a student is excluded from the maximum period of candidature.

### Teaching Approach

Design modules are taught through design studios. Critique sessions will form part of the studio procedure in teaching. Lecture modules include formal lectures, followed by seminars/tutorials. Field trips, site visits, measurement and study of buildings for research, investigation and documentation may be involved.

### Assessment and Examination

Assessment criteria will vary according to the modules offered. In the Department of Architecture, design modules are assessed by 100% "continuous assessment" (CA). The other essential modules may also be assessed by 100% CA or a combination of CA and Examination.

Students who fail an **essential** module will retake the module when it is next offered and must sit for the examination in that Semester. For the retake module students have to attend lectures and tutorials and complete assignments and examinations. A new CA grade has to be obtained.

Students who fail a **GEM/SS/Breadth/UE** module may either replace it with a new GEM/SS/Breadth/UE module or retake the failed module the following year. There is no limit to the number of times a student may retake the same GEM/SS/Breadth/UE module.

A student who has passed the examination of a module will not be permitted to retake the same module again for the purpose of improving his/her grade. This condition does not apply to the Design modules where the prerequisite for progression to the next level is a 'C' grade. Students who achieve a 'D' grade would be required to retake the Design module.

### Progression of Students

Min. MCs (in general) for promotion to the next level	ARK1 -> ARK2 [ $\geq 40$ MC] ARK2 -> ARK3 [ $\geq 80$ MC] ARK3 -> ARK4 [ $\geq 120$ MC]
Additional requirements	Must pass Design with a minimum C grade

### Degree/ Honours Classification

Successful candidates of the B.A. (Arch.) course are awarded the degree based on the following classification:

Class of Honours	CAP Cut-Off
First Class Honours	4.5 & above, plus at least an A- in Honours thesis/Final Year project
Second Class Honours (Upper Division)	4.00 – 4.49 inclusive
Second Class Honours (Lower Division)	3.50 – 3.99 inclusive

Third Class Honours	3.20 – 3.49 inclusive
Pass	2.00 – 3.19 inclusive

Students have to take all essential modules offered in the semester to which they have progressed, provided they have passed the relevant pre-requisites. In addition, they may take modules to satisfy University and other requirements.

**Modules Information**

Please refer to <http://www.nus.edu.sg/registrar/nusbuletin/modulesearch.html>