



Architecture AND THE Built Environment

ARCHITECTURE
CIVIL ENGINEERING WITH BUSINESS
FACILITIES MANAGEMENT
INTEGRATED EVENTS & PROJECT MANAGEMENT
LANDSCAPE ARCHITECTURE

With **SP**, it's So Possible

SINGAPORE
POLYTECHNIC **SP**



I CAN CREATE A *Sustainable* **FUTURE**

At the School of Architecture & the Built Environment (ABE), you can transform spaces. You learn to incorporate design with technology, allowing you to turn imaginative ideas into reality.

The creativity-driven and hands-on lessons in ABE allow you to build a strong foundation in transforming spaces, turning them into a sustainable environment. Be it buildings, structures, landscapes, hotels or events, you are able to enhance users' experience with creative solutions.

When you graduate, you will take on the world with your passion.
You can create the sustainable future you dream of.

WHY ABE?

ABE trains our students to be creative and competent in making Singapore a great city to live, work and play in.

Learning journeys in ABE also stretch beyond Singapore's shores through overseas study trips, internships, competitions and community service trips to inculcate our students with a global mindset.

So, are you ready to take on the challenge in transforming our living spaces into a great city to live, work and play in?



DIPLOMA IN Architecture

(DARCH – S66)

Are you passionate about architecture? Have you found yourself stopping to admire and guess how skyscrapers, museums and bungalows were designed? Do you have a dream of impacting the way people live, breathe and interact with the spaces they fill? If you do, then unlock your talents here at DARCH, Singapore's first (and only) full-fledged architecture diploma.

At DARCH, we believe that anyone and everyone can be trained in architecture. Anyone who enters the course will be equipped with essential skill sets to one day fully realise your ambition of contributing to the architectural and design industries. The unique pedagogy in place will aid in your holistic development into an adaptable, open-minded and motivated individual as well as a team player. From laying your design foundations in the first year, to strengthening your analytical and conceptual thought processes by the third year, DARCH is a design-cum-technical programme that adopts a unique project-based learning approach, to develop you into an investigative design innovator equipped with knowledge of the latest building technologies.

SCHOLARSHIPS AVAILABLE

- BCA-Industry Scholarship/Sponsorship
- Kumpulan Scholarship
- LOOK Architects Design Award
- School of Architecture & the Built Environment Scholarship
- URA Award



COURSE HIGHLIGHTS

- Hands-on design studio sessions that focus on critical and creative thinking
- Teaching through design projects, out-of-classroom site visits and sketching classes
- archiLAB, our student-centric agency, provides opportunities for you to participate in:
 - projects with real-life clients (which include MNCs and government agencies)
 - workshops with visiting professors from top architectural local and overseas universities
 - local and international competitions
- Overseas study trips
- Student exchange programmes (e.g. City University of Hong Kong and SUTD)

ENTRY REQUIREMENTS

2017 JAE ELR2B2: 13
Aggregate Type: ELR2B2-D

SUBJECT	GRADE
English Language	1 - 7
Mathematics (Elementary / Additional)	1 - 7
Any two other subjects	1 - 6

Note: To be eligible for admission, you must also have sat for one of the following subjects:

- Art / Art & Design • Biology • Biotechnology • Chemistry
- Computer Studies • Creative 3D Animation • Design Studies
- Design & Technology • Food & Nutrition
- Fundamentals of Electronics • Higher Art
- Media Studies (Chinese)/(English) • Physics
- Science (Chemistry, Biology)
- Science (Physics, Biology)
- Science (Physics, Chemistry)

Course MODULES

The Diploma in Architecture is a three-year full-time programme. Core modules are mainly year-long with 100% in-course assessment.

All full-time diploma students are required to take two compulsory Education and Career Guidance Modules in SP. Students will take SP101A: Education and Career Guidance 1 – Personal Development (15 hours) in their first year. In their second or third year, students will take SP201A: Education and Career Guidance 2 – Career Development (30 hours).

All students are required to take one compulsory Sports for Life (SFL) module for one semester in their first year in SP. In their second and third year, students may sign up for SFL module as an elective.

FIRST YEAR

- Architectural Design Studio I
- History & Theory of Architecture I
- Materials & Architectural Technology I
- Environmental Science I
- Architectural Visual Communication I
- Vertical Studio Elective I
- Communicating for Personal and Team Effectiveness
- Communicating for Project Effectiveness (Proposal)
- General Education 1
- General Education 2

SECOND YEAR

- Architectural Design Studio II
- History & Theory of Architecture II
- Materials & Architectural Technology II
- Environmental Science II
- Architectural Visual Communication II
- Vertical Studio Elective II
- Communicating for Professional Effectiveness
- Social Innovation Project
- General Education 3

THIRD YEAR

- Internship Programme
- Architectural Design Studio III
- History & Theory of Architecture III
- Materials & Architectural Technology III
- Environmental Science III
- Architectural Practice
- Vertical Studio Elective III

VERTICAL STUDIO ELECTIVES

- A 2-week workshop-based programme that is offered to all years



FURTHER STUDIES

Our students have received scholarships from organisations like Urban Redevelopment Authority and Far East Organization to study architecture at the National University of Singapore (NUS) and Singapore University of Technology and Design (SUTD). Our graduates have also continued their education at top universities around the world, including Royal Melbourne Institute of Technology (RMIT) University in Australia, Architecture Association (AA), The Bartlett (UCL) and Glasgow in UK, and Southern California Institute of Architecture (SCI-Arc) in the United States. The strength of your SP DARCH diploma will get you module exemptions and advanced standing in foreign universities.



The best thing about my course is the freedom to explore and learn from our mistakes. Through the course work, we can build on, correct and perfect our designs. I learnt a lot not only from my lecturers but also from my peers. We increasingly sought opinions, ideas and critiques from each other to build up our confidence in design and appreciate Architecture at a deeper and more meaningful level. The lecturers are experienced and dedicated in imparting the relevant skills to us. Their passion has influenced us to love what we study and do in this field.

Gan Chien Huey
DARCH Gold Medallist,
Class of 2015, who is now
pursuing her Masters in Architecture
at National University of Singapore



CAREER OPTIONS

You could:

- Be an **Architectural Assistant** to support in design, development, documentation and presentation; or
- Be an **Architectural Technologist** to assist in technical aspects supporting micro design and detailing; or
- Be an **Architectural Coordinator** on building sites; or
- **Specialise in niche architectural areas** such as BIM, computational parametric design, sustainability or graphic visualization, leading to opportunities to take up senior or director positions in design, technical or project management within architectural firms; or
- Branch into **architectural or the built environment related careers**, such as construction management, building materials/ finishes or architectural products specialists, and developing visualization or graphics skills for 3D animation and other creative services



DIPLOMA IN Civil Engineering With Business

(DCEB – S68)

The Diploma in Civil Engineering with Business (DCEB) is a broad-based and versatile course covering key areas such as structures, geotechnics, transportation, water technology and project management. Your training in civil engineering is within the context of a business environment since a successful technologist or engineer should also possess good business sense. Our graduates build the world, literally speaking. They support civil engineers in the analysis, design, construction, upgrading and maintenance of all forms of infrastructure for better quality of life and sustainable economy.



SCHOLARSHIPS AVAILABLE

- SP Engineering Scholarship
- School of Architecture & the Built Environment Scholarship
- Yongnam Bursary
- Singapore Structural Steel Society Scholarship
- BCA – Industry Scholarship / Sponsorship
- Yogarajah Scholarship and Bursary Fund
- Sarojini Devi Award
- LTA Engineering Award
- American Concrete Institute – Singapore Chapter Scholarship

COURSE HIGHLIGHTS

- Conceive-Design-Implement-Operate (CDIO) framework that prepares you to be life-ready, work-ready and world-ready
- Take part in competitions, seminars, overseas community service projects, study trips and humanitarian missions
- With both technical skills and strong business fundamentals, you will have a competitive edge

ENTRY REQUIREMENTS

2017 JAE ELR2B2: 19

Aggregate Type: ELR2B2-C

SUBJECT	GRADE
English Language	1 - 7
Mathematics (Elementary / Additional)	1 - 6
One of the following 3rd relevant subjects	1 - 6
<ul style="list-style-type: none"> • Biology • Biotechnology • Chemistry • Computer Studies • Design & Technology • Fundamentals of Electronics • Physics • Science (Chemistry, Biology) • Science (Physics, Biology) • Science (Physics, Chemistry) 	

Course MODULES

The Diploma in Civil Engineering with Business is a three year full-time programme.

There are three business-related modules that open the way for graduates to diversify into businesses in civil engineering and building.

All full-time diploma students are required to take two compulsory Education and Career Guidance Modules in SP. Students will take SP101A: Education and Career Guidance 1 – Personal Development (15 hours) in their first year. In their second or third year, students will take SP201A: Education and Career Guidance 2 – Career Development (30 hours).

All students are required to take one compulsory Sports for Life (SFL) module for one semester in their first year in SP. In their second and third year, students may sign up for SFL module as an elective.

FIRST YEAR

- Basic Mathematics
- CAD with Building Information Modelling (BIM)
- Communicating for Personal & Team Effectiveness
- Communicating for Project Effectiveness
- Economics
- Engineering Mathematics I
- Geomatics 1 & GIS
- Hydrology & Hydraulics
- Introduction to Civil Engineering & Building
- Structural Mechanics
- General Education 1
- General Education 2

SECOND YEAR

- Communicating for Professional Effectiveness
- Civil Engineering Construction & Measurement
- Engineering Mathematics II
- Geomatics 2 & GPS
- Geotechnical Engineering
- Reinforced Concrete Design & CAD
- Safety, Health & Environmental Management
- Structural Analysis
- Social Innovation Project
- Water Technology
- General Education 3

THIRD YEAR

- Accounts & Finance
- Final Year Project
- Civil Engineering Project Management
- Civil Engineering Technology
- Elective Module 1
- Elective Module 2
- Entrepreneurship
- Internship Programme
- Steel Design & CAD
- Structural BIM e-Submission
- Transportation Engineering

ELECTIVES

- Green Building Technology
- Solid Waste Management
- Precast & Pre-Stressed Concrete Technology
- ABC Waters Design
- Computer Programming with Applications in Civil Engineering
- Structural Inspection & Repair



CAREER OPTIONS

- Technical Executive
- Assistant Engineer
- Assistant Project Manager
- Site Supervisor
- BIM Specialist
- Building Construction Safety Supervisor
- Resident Technical Officer
- Marketing Sales Executive
- CAD Engineer

FURTHER STUDIES

With your SP diploma, you can gain direct entry into the second year of civil engineering degree courses at the Nanyang Technological University or National University of Singapore as well as a Civil Engineering degree at Singapore Institute of Technology (SIT). Or you can pursue a degree in Building & Project Management at the Singapore University of Social Sciences (SUSS) or a related degree in two years from Australian and British universities.



“

SP has a wonderful and established ABE teaching team. The lecturers are dedicated and keep us thinking about how civil engineering is being applied to a real-life design. My knowledge from civil engineering helped me in the construction of a wooden jetty in an Indonesian village and an in-situ courtyard for a primary school in rural Vietnam. The internship programme broadens our exposure in civil engineering and expands our knowledge beyond our syllabus.

”

Jonathan Peh Zhuang Sheng

DCEB Gold Medallist and Lee Kuan Yew Award winner, class of 2015, who plans to pursue an overseas degree under the prestigious Land Transport Authority's Local/Overseas Undergraduate Scholarship

DIPLOMA IN Facilities Management

(DFM – S95)

If your passion is in managing multi-million dollar properties and people, this is the course for you!

Facilities Management is a rapidly growing profession encompassing multiple disciplines that integrate people, place, process and technology to ensure the efficient and effective use of facilities for its intended purpose.

The demand for facilities management services has grown exponentially, with the growing demand for building and infrastructure development and increased emphasis for cost-efficient and greener buildings.

This course prepares you for an exciting facilities management career with property developers and owners, service providers, government agencies and statutory boards.

Besides the diploma, you will also be awarded with three additional certificates upon graduation:

- Fire Safety Manager
- bizSAFE Level 2 (Risk Management)
- Supervise Construction Work for WSH



SCHOLARSHIPS AVAILABLE

- BCA-Industry Scholarship / Sponsorship
- School of Architecture & the Built Environment Scholarship
- SP Scholarship

COURSE HIGHLIGHTS

Authentic learning through:

- Out-of-classroom projects and site visits
- 22-week Enhanced Internship Programme with reputable organisations
- Industry-linked projects
- Study trips

ENTRY REQUIREMENTS

2017 JAE ELR2B2: 13
Aggregate Type: ELR2B2-C

SUBJECT	GRADE
English Language	1 - 7
Mathematics (Elementary / Additional)	1 - 6
One of the following 3rd relevant subjects	1 - 6
<ul style="list-style-type: none"> • Art / Art & Design* • Biology • Biotechnology • Chemistry • Computer Studies • Design & Technology • Design Studies* • Fundamentals of Electronics • Higher Art* • Physics • Science (Chemistry, Biology) • Science (Physics, Biology) • Science (Physics, Chemistry) 	

***To be eligible for admission, you must also have sat for one of the following subjects:**

- Biology
- Biotechnology
- Chemistry
- Computer Studies
- Creative 3D Animation
- Design & Technology
- Food & Nutrition
- Fundamentals of Electronics
- Physics
- Science (Chemistry, Biology)
- Science (Physics, Biology)
- Science (Physics, Chemistry)



Course MODULES

The Diploma in Facilities Management is a three year full-time programme.

All full-time diploma students are required to take two compulsory Education and Career Guidance Modules in SP. Students will take SP101A: Education and Career Guidance 1 – Personal Development (15 hours) in their first year. In their second or third year, students will take SP201A: Education and Career Guidance 2 – Career Development (30 hours).

All students are required to take one compulsory Sports for Life (SFL) module for one semester in their first year in SP. In their second and third year, students may sign up for SFL module as an elective.



FIRST YEAR

- Building Services 1
- Economics
- Event & Venue Management
- Facilities Services Management 1
- Introduction to Facilities Management
- IT & Data Analysis for Business
- Law
- Leisure Amenities Management
- Principles of Management
- Structure & Fabric
- General Education 1
- General Education 2
- Communicating for Personal & Team Effectiveness

SECOND YEAR

- Accounts & Finance
- Building Defects Diagnosis & Rectification
- Building Services 2
- Customer Relationship Management
- Environmental Management & Sustainability
- Facilities Management & Communications
- Facilities Services Management 2
- Fire Safety Management
- IT For FM
- Marketing & Public Relations
- Town Council & Strata Management
- General Education 3
- Social Innovation Project
- Communicating for Project (Report) Effectiveness

THIRD YEAR

- Cross Cultural Studies for Business
- Final Semester Integrated Project
- Maintenance of Building Services
- Procurement & Project Management
- Refurbishment & Asset Enhancement Initiatives
- Safety, Health & Security
- Internship Programme
- Communicating for Professional Effectiveness



“

My course has equipped me with industry relevant skills and I was able to apply them during my 22-week internship with CapitaLand Limited. My role as an intern has taught me how to solve problems and mitigate difficult situations. I also liked how I have gained soft skills such as managing customers and developing empathy.

”

Chong Sui Jeen

DHLFM (now known as DFM) Gold Medallist, Class of 2017, who is now pursuing Bachelor of Science (Project and Facilities Management) at NUS.

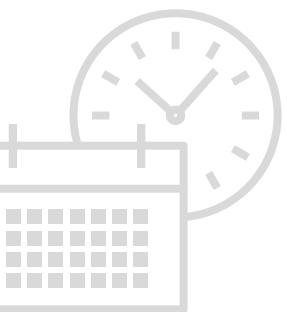


CAREER OPTIONS

- Property Executive
- Facilities Executive
- Managing Agent
- Building Executive
- Project Coordinator
- Contracts/Procurement Executive
- Operations Executive
- Strata Executive
- Customer Service Executive
- Safety & Security Officer
- Fire Safety Manager

FURTHER STUDIES

You can gain entry to a relevant degree course from local and overseas universities. The strength of your SP DFM diploma will get you generous advanced standing from reputable foreign universities and module exemptions from local universities.



DIPLOMA IN Integrated Events & Project Management

(DEPM – S50)



It's never a dull day in the life of an event or project manager. The Diploma in Integrated Events & Project Management (DEPM) course trains you to be a professional in the rapidly growing events industry which grossed more than \$3 billion in revenue in recent years. You are given authentic experiences through opportunities to conceptualise, plan and execute live events with our various industry partners.



SCHOLARSHIPS AVAILABLE

- BCA-Industry Scholarship / Sponsorship
- School of Architecture & the Built Environment Scholarship
- SP Scholarship

COURSE HIGHLIGHTS

Authentic learning through planning and managing:

- School events
- Industry-linked projects such as National Achievers Congress, Anti-Drug Abuse Campaign, Halloween @ Toa Payoh Central Community Club and Olympic Day Celebrations.
- 22-week Enhanced Internship Programme with overseas exposure opportunities
- Site visits and overseas trips

ENTRY REQUIREMENTS

2017 JAE ELR2B2: 14
Aggregate Type: ELR2B2-C

SUBJECT	GRADE
English Language	1 - 7
Mathematics (Elementary / Additional)	1 - 6
One of the following 3rd relevant subjects	1 - 6
• Art/ Art & Design* • Biology	
• Biotechnology • Chemistry • Physics	
• Science (Chemistry/Biology)	
• Science (Physics/Biology)	
• Science (Physics/Chemistry)	
• Computer Studies • Design & Technology	
Design Studies* • Fundamentals of Electronics • Higher Art*	

*To be eligible for admission, you must also have sat for one of the following subjects:

- Biology • Biotechnology • Chemistry • Computer Studies
- Creative 3D Animation • Design & Technology • Food & Nutrition
- Fundamentals of Electronics • Physics
- Science (Chemistry, Biology) • Science (Physics, Biology)
- Science (Physics, Chemistry)

Course MODULES

The Diploma in Integrated Events & Project Management is a three year full-time programme.

All full-time diploma students are required to take two compulsory Education and Career Guidance Modules in SP. Students will take SP101A: Education and Career Guidance 1 – Personal Development (15 hours) in their first year. In their second or third year, students will take SP201A: Education and Career Guidance 2 – Career Development (30 hours).

All students are required to take one compulsory Sports for Life (SFL) module for one semester in their first year in SP. In their second and third year, students may sign up for SFL module as an elective.

FIRST YEAR

- Audio Visual Systems
- Design, Drawings & CADD
- Economics
- Event Creation & Market Research
- Event Materials & Decoration
- Event Experience
- Food & Beverages
- IT Applications for Events I
- Law I
- Principles of Management
- Principles of Marketing
- General Education 1
- General Education 2
- Communicating for Personal and Team Effectiveness

SECOND YEAR

- Accounts & Finance
- Environmental Safety & Health
- Event Facilities Construction
- Integrated Project (Year Long)
- IT Applications for Events II
- Law II
- Logistics & Site Operations
- MICE Management
- Project Management
- Public Relations
- Social Innovation Project
- General Education 3
- Communicating for Project Effectiveness (Report)

THIRD YEAR

- Cross Cultural Studies
- Event Budgeting & Control
- Event Tourism & Leisure
- Entrepreneurship
- Venue & Facilities Management
- Resource Procurement & Negotiation
- Internship Programme
- Communicating for Professional Effectiveness

“

Studying in the Integrated Events and Project Management course in SP allowed me to gain much exposure, experience, and self-realization of my potential to plan, organize and create events as small as the Alumni Homecoming to as big as the Singapore Polytechnic Open House which garnered over 31,000 visitors. Opportunities such as competing in Taiwan for the MICE Destination Marketing Contest in 2016 and being involved in numerous events allowed me to experience first-hand what goes into creating events and allowed me to meet and network with amazing people and partners.

I truly believe that through my journey in SP, I have become well equipped with knowledge and both soft and technical skills to continue my next step in both university studies and the workplace.

”

Muhammad Alfiz Bin Kambali

*DEPM Gold Medallist and
Tay Eng Soon Gold Medallist,
Class of 2017.*



CAREER OPTIONS

- Event Manager / Executive
- Operations / Project Manager / Executive
- Client Experience Manager / Executive
- Event Marketing & Sales Manager / Executive
- Conference Manager / Executive
- Exhibition Manager / Executive
- Sponsorship Sales Manager / Executive

FURTHER STUDIES

You can gain entry to a relevant degree course in local and overseas universities. Among others, we have graduates pursuing degrees in Events & Facilities Management, Hospitality Business (Events), Business, Economics, and Project & Facilities Management. The strength of your SP DEPM diploma will get you module exemptions and advanced standing in established foreign universities.

DIPLOMA IN Landscape Architecture

(DLA – S94)

Landscape architects design and enhance our environment and surrounding spaces with fresh perspectives. It's a design discipline that is concerned with the quality of our surrounding environment and spaces.

The Diploma in Landscape Architecture (DLA) course prepares you to become a landscape designer who will be able to assist in transforming our world into a conducive, interactive, educational and experiential place. It involves the study of existing social, ecological, and geological conditions and processes in the environment, and the responses needed to achieve the desired landscape (indoor/ outdoor) space design.

SCHOLARSHIPS AVAILABLE

- Singapore Garden Society Scholarship / Sponsorship
- BCA-Industry Scholarship / Sponsorship
- School of Architecture & the Built Environment Scholarship



COURSE HIGHLIGHTS

- Dynamic, project-based learning that develops investigative, analytical and open-minded thinking skills for application to landscape design
- Personalised consultations with tutors in design studios
- Three-month structured/enhanced internship programme with private companies and key players like National Parks Board
- Collaborative learning approach which allows you to learn about other disciplines such as water technology and architecture
- Exploring the use of Plant Palette as materials for Spatial Design Proposal
- Simulation of Real Landscape Firm Operation/Processes – Client > Research > Design Proposal > Presentation > Documentation
- Case studies & site visits as part of outdoor activities

ENTRY REQUIREMENTS

2017 JAE ELR2B2: 18
Aggregate Type: ELR2B2-D

SUBJECT	GRADE
English Language	1 - 7
Mathematics (Elementary / Additional)	1 - 7
Any two other subjects	1 - 6

To be eligible for admission, you must also have sat for one of the following subjects:

- Art / Art & Design • Biology • Biotechnology • Chemistry
- Computer Studies • Creative 3D Animation
- Design & Technology • Design Studies
- Food & Nutrition • Fundamentals of Electronics
- Higher Art • Media Studies (Chinese) / (English) • Physics
- Science (Chemistry, Biology)
- Science (Physics, Biology)
- Science (Physics, Chemistry)



Course MODULES

The Diploma in Landscape Architecture is a three year full-time programme.

Core modules are mainly year-long with 100% in-course assessment.

All full-time diploma students are required to take two compulsory Education and Career Guidance Modules in SP. Students will take SP101A: Education and Career Guidance 1 – Personal Development (15 hours) in their first year. In their second or third year, students will take SP201A: Education and Career Guidance 2 – Career Development (30 hours).

All students are required to take one compulsory Sports for Life (SFL) module for one semester in their first year in SP. In their second and third year, students may sign up for SFL module as an elective.

FIRST YEAR

- Communicating for Personal and Team Effectiveness
- Communicating for Project Effectiveness (Proposal)
- Environmental Systems & Processes
- History & Theory of Landscape Design I
- Landscape Design Studio I
- Plants & Landscape Technology
- General Education 1
- General Education 2

SECOND YEAR

- Computer-Aided Design & Presentation
- Communicating for Professional Effectiveness
- History & Theory of Landscape Design II
- Landscape Design Studio II
- Plants & Sky-rise Technology
- Project Management in Landscape Architecture I
- Social Innovation Project
- General Education 3

THIRD YEAR

- Internship Programme
- Landscape Design Studio III
- Plants & Site Planning
- Urban Environment & Society
- Project Management in Landscape Architecture II
- Elective I
- Elective II

OPTION FOR ELECTIVES

- Advanced Digital Presentation
- Architecture Appreciation
- Detailing for Sustainable Design in Architecture & Landscape



CAREER OPTIONS

- Landscape Architect Assistant
- Landscape Designer
- Landscape Contractor
- Parks & Recreation Officer
- Town Council Estate Officer
- Landscape Product Specialist

FURTHER STUDIES

You can gain direct entry into first or second year of landscape or architectural degree courses at local and overseas universities.

“

The Diploma in Landscape Architecture's unique personalised consultations with tutors in design studios has always been an intriguing approach to learning for me. DLA has transformed me to be competent in not just the design and theory but in the management, practice and technicality of landscape architecture. The DLA programme emphasises on the integrated design approach to landscape architecture with a good balance between horticulture and ecological awareness. Now, I will be heading straight to the industry to further explore the world of landscape before pursuing a landscape architecture degree in Australia.

”

Indra Faridzuan Bin Runzi

*DLA Gold Medallist and
Tan Kay Yong Gold Medal winner,
Class of 2014, who plans to pursue an
overseas degree after national service*





Singapore Polytechnic
500 Dover Road Singapore 139651

For more information regarding entry requirements and course information, please contact:

School of Architecture & the Built Environment

Tel: (65) 6775 1133

Fax: (65) 6775 1973

Email: contactus@sp.edu.sg

Website: www.sp.edu.sg/abe

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