SPACES+U

- S66  Architecture
- S68  Civil Engineering with Business
- S52  Environmental Management and Water Technology
- S95  Hotel and Leisure Facilities Management
- S50  Integrated Events and Project Management
- S94  Landscape Architecture

WITH SP, IT’S SO POSSIBLE
Our hands-on diploma courses incorporate design, technology and media, hence allowing you to propel imaginative ideas into reality. The lectures and tutorials are conducted with great flexibility and freedom. The curriculum is explorative, unconventional and creativity-driven, allowing you to acquire a strong foundation in the professional practices of the built environment. Your experiential learning is conducted in excellent laboratory facilities and design studios.

The School of Architecture and the Built Environment is the most established school in Singapore dedicated to the training of professionals in the built environment. We are the only school that offers a comprehensive range of built environment programmes, from architecture to events management.
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 and community trips to Italy, Japan, Taiwan and other countries in South-east Asia to inculcate our students with a global mindset.

So, are you ready to transform your living space and turn it into a sustainable environment?
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 becoming an architect. 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.

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 becoming an architect. 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.

DARCH. Creativity starts here.
SCHOLARSHIPS AVAILABLE

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

ENTRY REQUIREMENTS

Aggregate Type: ELR2B2-D

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To be eligible for admission, you must also have sat for one of the following subjects:
- Art / Art & Design
- Biology
- Chemistry
- Computer Studies
- Creative 3D Animation
- Design & Technology
- Food & Nutrition
- Fundamentals of Electronics
- Higher Art
- Media Studies (Chinese) / (English)
- Physics
- Science (Chemistry, Biology)
- Science (Physics, Biology)
- Science (Physics, Chemistry)

COURSE HIGHLIGHTS

- Hands-on design studio sessions that teach critical and creative thinking
- Teaching through design projects, out-of-classroom site visits and sketching classes
- archiLAB, our new 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 immersion programmes, study trips (Italy, India, Indonesia)
- Student exchange programmes (e.g. University of Hong Kong and SUTD)
The Diploma in Architecture is a three-year full-time programme.

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

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<th>COURSE MODULES</th>
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<tr>
<td><strong>FIRST YEAR</strong></td>
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<tr>
<td>• Architectural Design Studio I</td>
</tr>
<tr>
<td>• Computer-Aided Design &amp; Presentation</td>
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<tr>
<td>• Communicating for Personal and Team Effectiveness</td>
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<td>• Communicating for Project (Proposal) Effectiveness</td>
</tr>
<tr>
<td>• Environmental Science I</td>
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<tr>
<td>• History &amp; Theory of Architecture I</td>
</tr>
<tr>
<td>• Materials &amp; Architectural Technology I</td>
</tr>
<tr>
<td>• General Education 1</td>
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<tr>
<td>• General Education 2</td>
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</table>

| **SECOND YEAR** |
| • Architectural Design Studio II |
| • Architectural Practice |
| • Communicating for Professional Effectiveness |
| • Environmental Science II |
| • History & Theory of Architecture II |
| • Materials & Architectural Technology II |
| • Social Innovation Project |
| • General Education 3 |

| **THIRD YEAR** |
| • Architectural Design Studio III |
| • Environmental Science III |
| • Elective I |
| • Elective II |
| • Internship Programme (12 weeks) |
| • Materials & Architectural Technology III |

**Electives**

• Active, Beautiful, Clean Water Design
• Advanced Digital Presentation
• Detailing for Sustainable Design in Architecture & Landscape
Why not get a degree? Our students receive scholarships from organisations like Urban Redevelopment Authority and Far East Organisation 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.

Part of building a strong foundation is broadening one’s knowledge and understanding people, life, and self through experiencing different environments and interacting with people. This was achieved through integrated programmes like industrial training programmes, field trips and numerous design competitions. The course definitely equipped me well with the latest design tools and software, allowing me to explore different means to express design ideas effectively.

Quak Chun Ming, Class of 2010

“...”
A successful technologist or engineer should also possess good business sense. The Diploma in Civil Engineering with Business (DCEB) is a broad-based course that covers a wide field of study, providing you with training in civil engineering within the context of a business environment.
COURSE HIGHLIGHTS

- Conceive-Design-Implement-Operate (CDIO) framework that prepares you to be work-ready, life-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

**Aggregate Type: ELR2B2-C**

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<tr>
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SCHOLARSHIPS AVAILABLE

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

<table>
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<tr>
<th>COURSE MODULES</th>
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<tbody>
<tr>
<td><strong>FIRST YEAR</strong></td>
</tr>
<tr>
<td>Basic Mathematics</td>
</tr>
<tr>
<td>CAD with Building Information Modelling (BIM)</td>
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<tr>
<td>Communicating for Personal &amp; Team Effectiveness</td>
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</table>

Elective 3.2
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. Or you can pursue a degree in Construction Management at SIM or a related degree in two years from Australian and British universities.

“SP provides a platform for individuals to explore and discover their own interests. The course has not only offered me an excellent learning environment, but also equipped me with a variety of hands-on skills. Furthermore, the lecturers and lab technicians are both friendly and approachable. With the learning experience gained at SP, graduates can easily adapt to a new working environment. There is no doubt that the course has given me a solid engineering foundation that further prepared me in pursuing my engineering dream at the Massachusetts Institute of Technology.”

Cheong Mun Ngah, Class of 2008, who recently graduated with a Bachelor in Civil Engineering degree from the Massachusetts Institute of Technology

FURTHER STUDIES

• Assistant Project Manager
• Assistant Structural Designer/ Draughtsperson
• Construction Supervisor
• Sub-Contractor Supervisor
• Building Construction Safety Supervisor
• Resident Technical Officer
• Marketing Sales Executive
To prepare our graduates to meet the challenges of the world today, the Diploma in Environmental Management and Water Technology (DEWT) offers a multi-disciplinary programme with possibilities of overseas exposures from around Asia.

Being a basic commodity, coupled with increasing urbanisation, there is now a growing global demand for water solutions. With the aim of becoming a global Hydro Hub, Singapore’s water industry is set to grow even further.
COURSE HIGHLIGHTS

✔ Well-rooted programme: strong fundamental knowledge achieved through a key project that cuts across all 3 years
✔ Living Lab: study of urban and natural environments within and beyond SP
✔ Comprehensive curriculum: opportunity to acquire local and global experiences and apply the knowledge gained

SCHOLARSHIPS AVAILABLE

• ACI Scholarship
• PUB Sponsorship
• BCA-Industry Scholarship / Sponsorship
• School of Architecture & the Built Environment Scholarship

ENTRY REQUIREMENTS

Aggregate Type: ELR2B2-C

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</table>
The Diploma in Environmental Management & Water Technology is a three-year full-time programme.

## COURSE MODULES

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>SECOND YEAR</th>
<th>THIRD YEAR</th>
<th>ELECTIVE</th>
</tr>
</thead>
</table>
| • Air Pollution Control  
• Analytical and Physical Chemistry  
• Basic Mathematics  
• Basic Structures  
• Communicating for Personal and Team Effectiveness | • Communicating for Project Effectiveness (Report)  
• Electrical Technology  
• Energy and the Environment  
• Engineering Mathematics 1 | • ABC Waters Design  
• Communicating for Professional Effectiveness  
• Computer Programming with Applications in Environmental Engineering  
• Elective | • Entrepreneurship  
• Green Building Technology  
• Higher Mathematics |
| • Hydrology & Hydraulics  
• Introduction to Environmental Engineering with CAD  
• General Education 1  
• General Education 2 | | | |
| • Industrial Noise and Vibration Control  
• Soil Science  
• Solid & Hazardous Waste Management  
• Water Reclamation Technology | • Water Supply  
• Workplace Safety, Health & Environment  
• Social Innovation Project  
• General Education 3 | | |
You not only have opportunities to gain direct entry to the second year of environmental or civil engineering courses at National University of Singapore or Nanyang Technological University, but also receive scholarships from these universities, as well as the Ministry of the Environment and Water Resources (MEWR) Singapore. Alternatively, you can pursue a related degree from universities in Australia, Canada and the UK.

"The DEWT course is not just about attending lectures and completing tutorials day after day. It’s filled with site visits and overseas study trips that provided me with a better understanding and an appreciation for what I’m learning. There were many opportunities available for me to excel beyond my academics. One such example is the Overseas Service Learning Project in Indonesia, where I was able to put what I learned into practice. I represented Singapore with this project in an international social entrepreneurship competition in Berlin."

Lim Renhui, Class of 2010, and PUB sponsorship awardee

**CAREER OPTIONS**

- Assistant Environmental Engineer
- Assistant Environmental Manager
- Environment Technologist
- Assistant Environmental, Health & Safety (EHS) Manager
- Water and Wastewater Treatment Specialist
- Environmental Sustainable Design (ESD) Executive
- Marketing & Sales Executive

**FURTHER STUDIES**

You not only have opportunities to gain direct entry to the second year of environmental or civil engineering courses at National University of Singapore or Nanyang Technological University, but also receive scholarships from these universities, as well as the Ministry of the Environment and Water Resources (MEWR) Singapore. Alternatively, you can pursue a related degree from universities in Australia, Canada and the UK.
The Diploma in Hotel & Leisure Facilities Management (DHLFM) course is the first of its kind that offers a unique blend of both the soft skills of hotel management and the technical skills of facilities management of hotels, resorts, commercial buildings, hospitals and other properties.

Whether your passion is in working with people in the exciting and fast expanding hotel industry or in managing multi-million dollar property investments, there’s something in this course for you! Here, you are taught to create memorable experiences, to enhance lifestyles and become a global leader with sharp skills relevant for the demands of the job. Besides the diploma, you will also be awarded the Fire Safety Manager Certificate.
COURSE HIGHLIGHTS

☑ Authentic learning in hotels and mega events like the Formula 1 Singapore Grand Prix where you learn operations and management skills
☑ Semester-long internship programmes with reputable organisations. Overseas Internship to Dubai and Internship on board Star Cruises.
☑ Teaching through out-of-classroom projects and site visits
☑ Overseas trips to broaden your horizon (Recent trips included Switzerland, Dubai and Star Cruises)

SCHOLARSHIPS AVAILABLE

- BCA-Industry Scholarship / Sponsorship
- Marina Bay Sands Scholarship
- Savills CKH Scholarship
- School of Architecture & the Built Environment Scholarship
- Wan Fook Kong Scholarship

ENTRY REQUIREMENTS

Aggregate Type: ELR2B2-C

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- Art / Art & Design*
- Biology
- Chemistry
- Design & Technology
- Higher Art*
- Physics
- Science (Chemistry, Biology)
- Science (Physics, Biology)
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Note:
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- Biology
- Chemistry
- Computer Studies
- Creative 3D Animation
- Design & Technology
- Food & Nutrition
- Fundamentals of Electronics
- Physics
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# COURSE MODULES

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

## FIRST YEAR
- Economics
- Food & Beverage Operations
- Front Office Management
- IT Applications
- Introduction to Hotel & Leisure Facilities Management

## SECOND YEAR
- Event & Venue Management
- Communicating for Project (Report) Effectiveness
- Customer Relationship Management
- Accounts & Finance
- Environmental Management & Sustainability

## THIRD YEAR
- Hotel Operations & Management
- Maintenance of Building Services
- Safety, Health & Security
- Integrated Project
- Communicating for Professional Effectiveness
- Internship Programme

## Electives
(Students opt for one of the elective modules from each of the contrasting areas of focus):
- Cross Cultural Studies
- Travel & Leisure Management
- Property Management
- Building & Refurbishment

## Course Modules

<table>
<thead>
<tr>
<th>Course</th>
<th>Module</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Economics, Food &amp; Beverage Operations, Front Office Management, IT Applications, Introduction to Hotel &amp; Leisure Facilities Management</td>
</tr>
<tr>
<td></td>
<td>Predicting Demand and Utilisation, Intangible Assets Management, Career Development, Internship Programme</td>
</tr>
<tr>
<td></td>
<td>Options Management System, Customer Relationship Management Tools, Effective Communication, Professional Effectiveness</td>
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<tr>
<td></td>
<td>IT Applications, Strategic Management, Business Environment, Leadership &amp; Management</td>
</tr>
</tbody>
</table>

## Additional Modules
- Communicating for Personal and Team Effectiveness
- General Education 1
- General Education 2
- Fire Safety Management
- Principles of Marketing & Public Relations
- Rooms Division Operations & Management
- IT For Hotel & Leisure Facilities Management
- Property & Facilities Maintenance Management
- Building Services II
- Building Maintenance Technology
- Social Innovation Project
- General Education 3
You can gain direct access into related degree courses in local or overseas universities. You will be given generous advanced standing by universities in Australia, Switzerland and United Kingdom.

FURTHER STUDIES

The friends I’ve made and the knowledge I’ve gained of the hotel industry has been an eye-opener. Having travelled a lot last year for competitions, I now see a different and more complex side to how a hotel operates and I am eagerly looking forward to experiencing a different path that has been opened up to me, apart from my sport.

Audrey Yong Pei Lin, 2nd year student, recipient of the Singapore Olympic Foundation - Peter Lim Scholarship

CAREER OPTIONS

• Hotel Facilities Manager
• Front Office Manager
• Rooms Division Manager
• Conference Sales Executive
• Catering Sales Manager
• Operations & Logistics Manager
• Property Facilities Manager
• Contracts Manager
• Property Executive
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 birth, plan and execute live events with our various industry partners.
COURSE HIGHLIGHTS

☑ Authentic, experiential learning through planning and managing:
  - school events
  - industry-linked projects such as Sentosa 4D AdventureLand Halloween event, *SCAPE Countdown party and Changi Airport Max Parade
☑ A 22-week internship programme with overseas exposure opportunities
☑ Site visit and overseas trips

SCHOLARSHIPS AVAILABLE

- Sentosa 4D AdventureLand Scholarship
- eThree5 Scholarship
- *SCAPE Scholarship
- BCA-Industry Scholarship / Sponsorship
- School of Architecture & the Built Environment Scholarship

ENTRY REQUIREMENTS

Aggregate Type: ELR2B2-C

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- Computer Studies
- Creative 3D Animation
- Design & Technology
- Food & Nutrition
- Fundamentals of Electronics
- Physics
- Science (Chemistry, Biology)
- Science (Physics, Biology)
- Science (Physics, Chemistry)
The Diploma in Integrated Events & Project Management is a three-year full-time programme.

**COURSE MODULES**

**FIRST YEAR**
- Audio Visual Systems
- Design, Drawings & CADD
- Economics
- Event Creation & Market Research
- Event Materials & Decoration

**SECOND YEAR**
- Accounts & Finance
- Environmental Safety & Health
- Event Facilities Construction
- Integrated Project (Year Long)
- IT Applications for Events II

**THIRD YEAR**
- Communicating for Professional Effectiveness
- Cross Cultural Studies
- Event Budgeting & Control

**FIRST YEAR**
- Event Experience
- Food & Beverages
- IT Applications for Events I
- Law I
- Principles of Management

**SECOND YEAR**
- Law II
- Logistics & Site Operations
- MICE Management
- Project Management
- Public Relations

**THIRD YEAR**
- Event Tourism & Leisure
- Entrepreneurship
- Venue & Facilities Management

**FIRST YEAR**
- Principles of Marketing
- General Education 1
- General Education 2
- Communicating for Personal and Team Effectiveness

**SECOND YEAR**
- Social Innovation Project
- General Education 3
- Communicating for Project (Report) Effectiveness

**THIRD YEAR**
- Resource Procurement & Negotiation
- Internship Programme
You can gain entry to a relevant degree course in local and overseas universities. Among others, we have graduates pursuing degrees in Business, Economics, Psychology and Linguistics. The strength of your SP DEPM diploma will get you module exemptions and advanced standing in established foreign universities.

I have not regretted coming into the DEPM course as it had given me such great exposure to the events industry as well as personal development as a Singapore Polytechnic student.

Besides developing me well in studies, I was given a holistic education through active participation in many local and overseas programmes such as the Singapore Compact Young Corporate Social Responsibility Leaders Competition; Youth Creativity, Innovation and Sustainable Leadership programme at Stanford University in California and an overseas community service trip to Shanxi Province.

Through my 22-week internship, I had the opportunity to plan and execute events for high profile clients such as Gatsby, H&M, Citibank, Nike and many more. The real-life experiences and on-the-job learning had shaped me into a more mature individual.

Last but not least, thank you to all lecturers in DEPM for their kind guidance, with special mention to Ms Sally Ng, Ms Rajesree and Mr Benji Tan. And thank you, Singapore Polytechnic!

Walter Tan, Class of 2013, winner of Lee Kuan Yew Award, Singapore Tourism Board Gold Medal, Shell Companies in Singapore Prize, Banyan Tree Global Foundation Prize, Division Communications Prize, OCBC Prize and Sentosa 4D Magix Prize

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
Landscape architects design and enhance our environment and surrounding spaces with fresh and new perspectives. It’s a design discipline that is concerned with the quality of our surroundings. The Diploma in Landscape Architecture (DLA) course trains 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.
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 internship programme with private companies and key players like the National Parks Board
- Collaborative learning approach which allows you to learn about other disciplines such as water technology and architecture.

SCHOLARSHIPS AVAILABLE

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

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- Higher Art
- Media Studies (Chinese) / (English)
- Physics
- Science (Chemistry, Biology)
- Science (Physics, Biology)
- Science (Physics, Chemistry)

Aggregate Type: ELR2B2-D
The Diploma in Landscape Architecture is a three-year full-time programme. Core modules are mainly year-long with 100% in-course assessment.

<table>
<thead>
<tr>
<th>COURSE MODULES</th>
<th>FIRST YEAR</th>
<th>SECOND YEAR</th>
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<tbody>
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<td></td>
<td>Communicating for Personal and Team Effectiveness</td>
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<td>Communicating for Project (Proposal) Effectiveness</td>
<td>Communicating for Professional Effectiveness</td>
<td>Landscape Design Studio III</td>
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<tr>
<td></td>
<td>Environmental Systems &amp; Processes</td>
<td>History &amp; Theory of Landscape Design II</td>
<td>Plants &amp; Site Planning</td>
</tr>
<tr>
<td></td>
<td>History &amp; Theory of Landscape Design I</td>
<td>Landscape Design Studio II</td>
<td>Urban Environment &amp; Society</td>
</tr>
<tr>
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<td>History &amp; Theory of Landscape Design I</td>
<td>Plants &amp; Sky-rise Technology</td>
<td>Project Management in Landscape Architecture II</td>
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<td>Landscape Design Studio I</td>
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<td>Elective I</td>
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<td>Plants &amp; Landscape Technology</td>
<td>Social Innovation Project</td>
<td>Elective II</td>
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<td>General Education 1</td>
<td>General Education 3</td>
<td>Active, Beautiful, Clean Waters Design Guidelines</td>
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<td>General Education 2</td>
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<td>Advanced Digital Presentation</td>
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Option for Electives

- Active, Beautiful, Clean Waters Design Guidelines
- Advanced Digital Presentation
- 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

“

I dreaded my first few weeks of work because of the differences in environment between school life and the real world - CAD, deadlines (overtime), meetings, and all - but now I can confidently say that the training given by SP has prepared me for this challenging and rewarding career. I get to design million-dollar projects, and be responsible for the redevelopment of hectares of land in overseas projects.

Tuson Chong Fatt Kwang

FURTHER STUDIES

You can gain direct entry into the first or second year of architectural or landscape degree courses at local and overseas universities.
For more information regarding entry requirements and course information, please contact:

School of Architecture & the Built Environment
Tel: (65) 6772 1322 / 6772 1112
Fax: (65) 6775 1973
Email: abe@sp.edu.sg
Website: www.sp.edu.sg/schools/abe

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The Polytechnic reserves the right to alter the information in this publication. Information is correct as at 1 January 2014.