

‘A’ Level Subject Requirements by Faculty for University Admission in 2011

NTU Courses

S/No	Course	Career Opportunities	Pre-requisite under the new ‘A’ level curriculum	Selection Test/ Interview
NANYANG BUSINESS SCHOOL				
BUSINESS AND ACCOUNTANCY				
1.	Accountancy	<ul style="list-style-type: none"> • Chartered certified accountant • Chartered accountant • Chartered public finance accountant • Tax officer/Tax Auditor • Accounts assistant 	Pass in H1 Mathematics or Pass in ‘O’ level Additional Mathematics	On a selective basis
2.	Business	<ul style="list-style-type: none"> • Banker • Financial/business consultant • Marketing managers • Risk/ Investment analyst • Sales executives • Entrepreneur 	Pass in H1 Mathematics or Pass in ‘O’ level Additional Mathematics	On a selective basis

S/No	Course	Career Opportunities	Pre-requisite under the new 'A' level curriculum	Selection Test/ Interview
COLLEGE OF ARTS, HUMANITIES & SOCIAL SCIENCES				
ART, DESIGN AND MEDIA				
3.	Art, Design and Media	<p><u>Animation</u> Animator, Director, Production, Motion Graphics Artist,</p> <p><u>Digital Cinema</u> TV & Video Production, Video Editor, Videographer, Film Director,</p> <p><u>Emotive Robotics</u> Engineer, Technology Researchers, Concept Designer, Installation Technician, Stage Technician</p> <p><u>Interactive and Game Design</u> Texture Artist, Lighting &</p>	<p>Candidates are required to submit 3 items:</p> <p>(i) A portfolio or demo reel of personal artwork, including projects developed in secondary education. The portfolio should demonstrate general artistic proficiency plus ability in the desired area of BFA expertise (i.e. animation, photography, design, etc).</p> <p>(ii) A short written composition in English of no more than 400 words explaining why you are uniquely qualified to enter a specific BFA program.</p>	Yes. Faculty Test

		<p>Technical Director, Character Animator, Game- level Designer</p> <p><u>Interactive Installation and Special Design</u> Designer, Advanced Researcher in Technology</p> <p><u>Interdisciplinary Art, Design and Media</u> Concept Artist, Futurist, Media Producer, Executive</p> <p><u>Object and Product Design</u> Furniture Designer, Advanced Researcher in Product Design</p> <p><u>Photography and Sequential Art</u> Photographer, Producer and Director of Media Products</p> <p><u>Visual Communication</u> Director, Designer, New Product Development manager</p>	<p>(iii) A 3-minute movie with a personal explanation/performance demonstrating why you should be admitted into the BFA. The movie format should be a region-free DVD, or a QuickTime or MediaPlayer file on a CD-ROM, movies longer than 3 min. will not be reviewed.</p> <p>In addition, O level or equivalent pass in Mathematics.</p>	
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S/No	Course	Career Opportunities	Pre-requisite under the new 'A' level curriculum	Selection Test/ Interview
COLLEGE OF ARTS, HUMANITIES & SOCIAL SCIENCES				
COMMUNICATION STUDIES				
4.	Communication Studies	<ul style="list-style-type: none"> ▪ News reporters ▪ News analysts ▪ Columnists ▪ Photojournalists ▪ Sub-editors ▪ Desktop publishers ▪ Media planners ▪ Graphic artist ▪ Producers ▪ Campaign directors 	Good pass in General Paper (Or KI), at least B4 in order to be considered	Short listed candidates have to undergo a written test and a short interview.

S/No	Course	Career Opportunities	Pre-requisite under the new 'A' level curriculum	Selection Test/ Interview
COLLEGE OF ARTS, HUMANITIES & SOCIAL SCIENCES				
HUMANITIES				
5.	Chinese	<ul style="list-style-type: none"> ▪ Teachers ▪ Researchers ▪ Academicians ▪ Journalists ▪ Public Relations Officers ▪ Administrative Officers ▪ Executive Officers ▪ Managers ▪ Tourism ▪ Arts and Cultural Activities 	H2 level pass or good 'O' level in Chinese or Higher Chinese	On a selective basis.
6.	English Literature		Good pass in General Paper or KI or H2 Level English Literature.	
7.	Sociology		A good pass in General Paper, at least B4 and above (Or KI)	
8.	Economics		<ul style="list-style-type: none"> • Biometrist • Economist • Financial risk analyst • Industry economist • Statistician 	

S/No	Course	Career Opportunities	Pre-requisite under the new 'A' level curriculum	Selection Test/ Interview
COLLEGE OF ARTS, HUMANITIES & SOCIAL SCIENCES				
HUMANITIES				
9.	Linguistics & Multilingual Studies	<ul style="list-style-type: none"> ▪ Teachers ▪ Researchers ▪ Academicians ▪ Journalists ▪ Public Relations Officers 	Good pass in General Paper or Knowledge & Inquiry or English Literature or Geography or History or H2 level Chinese/Malay/Tamil Language & Literature	On a selective basis. Shortlisted candidates will be required to sit for a selection test or interview.
10.	Psychology	<ul style="list-style-type: none"> ▪ Administrative Officers ▪ Executive Officers ▪ Managers ▪ Tourism ▪ Arts and Cultural Activities 	Pass in H1 Mathematics or Pass in 'O' level Additional Mathematics	

S/No	Course	Career Opportunities	Pre-requisite under the new 'A' level curriculum	Selection Test/ Interview
NATIONAL INSTITUTE OF EDUCATION				
11.	Arts (Education)*	<ul style="list-style-type: none"> ▪ Teachers ▪ Teaching Assistant ▪ Education specialists ▪ Learning mentor ▪ Adult education lecturer ▪ Higher/further education lecturer 	2 'A' /H2 Level passes and 2 'AO'/H1 Level passes (including General Paper or KI) and where applicable, 5 'O' Level passes including English and Mathematics Pass in Mathematics at either 'O' level or at least at H1 level in the 'A' level examinations	Yes
12.	Science (Education)*			
COLLEGE OF SPORTS SCIENCE				
13.	Sports Science & Management#	<ul style="list-style-type: none"> ▪ Sports Coach ▪ Sports Development Officer ▪ Personal Trainer ▪ Outdoor Pursuit Manager ▪ Higher Education officer ▪ Physical Education Teacher 	H1 level pass in Mathematics or 'O' level or equivalent pass in Additional Mathematics	On a selective basis

Programmes leading to Bachelor of Science degree.

S/No	Course	Career Opportunities	Pre-requisite under the new 'A' level curriculum	Selection Test/ Interview
COLLEGE OF SCIENCE				
14.	Biological Sciences	<ul style="list-style-type: none"> • Researchers and entrepreneurs in manufacturing and management sectors of the life sciences industry 	H2 level pass in Mathematics and Physics or Chemistry or Biology	On a selective basis
15.	Chemistry & Biological Chemistry	<ul style="list-style-type: none"> ▪ Researchers and entrepreneurs in manufacturing and management sectors of the life sciences industry ▪ Teachers ▪ Chemists 	Pass in H2 Chemistry and H2 Mathematics or H2 Physics	
16.	Mathematical Sciences	<ul style="list-style-type: none"> ▪ Entrepreneurs ▪ Biometrist ▪ Economist ▪ Financial risk analyst ▪ Industry economist ▪ Statistician 	Pass in H2 Mathematics	
17.	Mathematics and Economics (Combined Degree)			
18.	Physics & Applied Physics	<ul style="list-style-type: none"> ▪ Teachers ▪ Researchers ▪ Engineers 	Pass in H2 Physics and H2 Mathematics	
19.	Physics with Mathematical Sciences Major			

S/No	Course	Career Opportunities	Pre-requisite under the new 'A' level curriculum	Selection Test/ Interview
COLLEGE OF ENGINEERING				
20.	Materials Engineering	<ul style="list-style-type: none"> ▪ Specialist in right materials for specific application ▪ Researcher in use of materials 	H2 level pass in Mathematics and Physics or Physical Science or Chemistry or Biology and a pass in Physics at O Level or equivalent	
21.	Maritime Studies #	<ul style="list-style-type: none"> ▪ Technicians ▪ Engineers ▪ Surveyors ▪ Safety Officers 	H1 level pass in Mathematics or 'O' level or equivalent pass in Additional Mathematics and 'O' level or H1 level pass in a Science subject	
22.	Maritime Studies with Business Major #			
23.	Aerospace Engineering	<ul style="list-style-type: none"> ▪ Aerospace Design Engineer ▪ Aircraft Structures Engineer ▪ Aerospace Quality Engineer ▪ Defence Scientists ▪ Flight Engineer ▪ Joining RSAF 	H2 level pass in Mathematics and Physics or Physical Science or Chemistry or Biology and a pass in Physics at O Level or equivalent	
24.	Bioengineering	<p>Engineer in areas of</p> <ul style="list-style-type: none"> ▪ Biomedical/Life Sciences ▪ Biotechnology ▪ Biomedical devices Hospitals and Medical Centres 	H2 level pass in Mathematics and Physics or Physical Science or Chemistry or Biology and a pass in Physics at O Level or equivalent	

S/No	Course	Career Opportunities	Pre-requisite under the new 'A' level curriculum	Selection Test/ Interview
25.	Chemical & Biomolecular Engineering	<ul style="list-style-type: none"> ▪ Bio-Pharmaceuticals ▪ Food/Flavours/Fragrances ▪ Nanotechnology ▪ Petrochemicals ▪ Specialty Chemicals 	H2 level pass in Mathematics and Chemistry and a pass in Physics at O Level or equivalent	
26.	Civil Engineering	<ul style="list-style-type: none"> ▪ Structural and design engineers for residential, commercial and industrial buildings, roads, power plants ▪ Transportation engineers ▪ Construction project managers ▪ Geotechnical engineers 	H2 level pass in Mathematics and Physics or Physical Science or Chemistry or Biology and a pass in Physics at O Level or equivalent	
27.	Computer Engineering	<p>Engineer in</p> <ul style="list-style-type: none"> ▪ electronic & microprocessor systems design ▪ Digital signal processing ▪ New media ▪ Multi-media design and development of edutainment ▪ Robotic control ▪ Smart consumer electronics ▪ Hardware & software design 	H2 level pass in Mathematics and Physics or Physical Science or Chemistry or Biology and a pass in Physics at O Level or equivalent	

+ 'O' level pass in Physics is only applicable to applicants who have not read H2 level Physics.

S/No	Course	Career Opportunities	Pre-requisite under the new 'A' level curriculum	Selection Test/ Interview
28.	Computer Science	<ul style="list-style-type: none"> ▪ Software Development ▪ Systems Engineering ▪ R & D Engineers ▪ IT Specialists ▪ Technoprenuer 	H2 level pass in Mathematics and Physics or Physical Science or Chemistry or Biology and a pass in Physics at O Level or equivalent	
29.	Electrical & Electronic Engineering	<ul style="list-style-type: none"> ▪ Engineers in semi-conductor technology, integrated circuits & systems, power generation & distribution ▪ Technical support consultants 		
30.	Engineering	Various technical and non-technical positions in wide and varied industries		
31.	Environmental Engineering	<ul style="list-style-type: none"> ▪ Desalination ▪ Environmental Technologies Development ▪ Membrane Technologies ▪ Wastewater Reclamation and Reuse 	H2 level pass in Mathematics and Physics or Physical Science or Chemistry or Biology And a pass in Physics at 'O' Level or equivalent ⁺	

+ 'O' level pass in Physics is only applicable to applicants who have not read H2 level Physics.

S/No	Course	Career Opportunities	Pre-requisite under the new 'A' level curriculum	Selection Test/ Interview
32.	Information Engineering & Media	<ul style="list-style-type: none"> ▪ Digital Media Design & Production ▪ Gaming, Animation & Interactive Entertainment ▪ Hardware Design & Manufacturing ▪ Hardware / Software System Integration 	H2 level pass in Mathematics and Physics or Chemistry or Biology or Computing and 'O' level or equivalent pass in Physics+	
33.	Mechanical Engineering	<ul style="list-style-type: none"> ▪ Defence ▪ Logistics ▪ Manufacturing ▪ Marine & Offshore Engineering ▪ Aeronautical 		

+ 'O' level pass in Physics is only applicable to applicants who have not read H2 level Physics.

S/No	Course	Career Opportunities	Pre-requisite under the new 'A' level curriculum	Selection Test/ Interview
DOUBLE DEGREE PROGRAMMES				
34.	Accountancy and Business	<ul style="list-style-type: none"> ▪ As per specialization 	H1 level pass in Mathematics or 'O' level or equivalent pass in Additional Mathematics	On a selective basis
35.	Biomedical Sciences & Traditional Chinese Medicine	<ul style="list-style-type: none"> ▪ Researchers and entrepreneurs in manufacturing and management sectors of the life sciences industry ▪ Teachers ▪ Chemists 	H2 level pass in Mathematics and Physics or Chemistry or Biology and O Level pass in Chinese	On a selective basis
36.	Business & Computing	<ul style="list-style-type: none"> ▪ Software Development ▪ Systems Engineering ▪ R & D Engineers ▪ IT Specialists ▪ Technopreneur ▪ Banker ▪ Financial/business consultant ▪ Marketing managers ▪ Risk/ Investment analyst ▪ Sales executives ▪ Entrepreneur 	H2 level pass in Mathematics and Physics or Physical Science or Chemistry or Biology And a pass in Physics at 'O' Level or equivalent [†]	

37.	Business & Computer Engineering	As per specialization.	H2 level pass in Mathematics and Physics or Physical Science or Chemistry or Biology And a pass in Physics at 'O' Level or equivalent ⁺	
38.	Engineering [^] & Economics [^] in a specific field of Engineering	As per Engineering specialization.		
39.	Chemical & Biomolecular Engineering and Economics (Double Degree)	<ul style="list-style-type: none"> ▪ Entrepreneur and inclusive of the above. 	H2 level pass in Mathematics and Physics or Physical Science or Chemistry or Biology And a pass in Physics at 'O' Level or equivalent ⁺	
40.	Materials Engineering and Economics (Double Degree)	<ul style="list-style-type: none"> ▪ Specialist in right materials for specific application ▪ Researcher in use of materials ▪ Entrepreneur 	H2 level pass in Mathematics and Physics or Chemistry or Biology and 'O' level or equivalent pass in Physics ⁺	

+ 'O' level pass in Physics is only applicable to applicants who have not read H2 level Physics.

S/No	Course	Career Opportunities	Pre-requisite under the new 'A' level curriculum	Selection Test/ Interview
INTEGRATED PROGRAMMES				
41.	BEng/MS, Computer Science	As per specialization.	H2 level pass in Mathematics and Physics or Chemistry or Biology or Computing and 'O' level or equivalent pass in Physics+	
42.	BEng [Computer Engineering] & MS [Computer Science]	As per specialization.		
43.	BEng[EEE] & MS[ECE]	As per specialization.		

+ 'O' level pass in Physics is only applicable to applicants who have not read H2 level Physics.

**'A' Level Subject Requirements by Faculty for
University Admission in 2011
NUS Courses**

S/No	Course	Career Opportunities	Pre-requisite under the new 'A' level curriculum	Selection Test/ Interview
SCHOOL OF DESIGN AND ENVIRONMENT				
1.	Architecture	<ul style="list-style-type: none"> ▪ Interior Designers ▪ Industrial Designers ▪ Graphic Designers ▪ Journalists specialising in architectural activities 	H1 pass in Chemistry or Mathematics or Physics; OR pass in 'O' level Additional Mathematics.	Yes
2.	Industrial Design	<ul style="list-style-type: none"> ▪ Industrial technical position ▪ Manufacturing manager ▪ Manager of corporate real estate and facility planning ▪ Project engineer ▪ Quality systems specialist 	H1 pass in Chemistry or Mathematics or Physics; OR pass in 'O' level Additional Mathematics	Yes
3.	Project & Facilities Management	<ul style="list-style-type: none"> ▪ Project managers ▪ Facilities managers ▪ Quantity surveyors 	H1 pass in Chemistry or Mathematics or Physics.	No
4.	Real Estate	<ul style="list-style-type: none"> ▪ Real Estate Specialists ▪ Property Valuers 	H1 pass in Chemistry or Mathematics or Physics.	No

S/No	Course	Career Opportunities	Pre-requisite under the new 'A' level curriculum	Selection Test/ Interview
FACULTY OF ARTS AND SOCIAL SCIENCES				
5.	Arts & Social Sciences	<ul style="list-style-type: none"> • Teachers ▪ Researchers ▪ Academicians ▪ Journalists ▪ Public Relations Officers ▪ Administrative Officers ▪ Executive Officers ▪ Managers ▪ Tourism ▪ Arts and Cultural Activities 	<p>Please refer to www.fas.nus.edu.sg for respective subjects.</p> <p>* The Faculty of Arts and Social Sciences and Faculty of Science offer many subjects which may require further subject prerequisites. Please refer to their respective website at http://www.fas.nus.edu.sg for more information.</p>	Yes
FACULTY OF ENGINEERING				
6.	Bioengineering#	<p>Engineer in areas of</p> <ul style="list-style-type: none"> ▪ Biomedical/Life Sciences ▪ Biotechnology ▪ Biomedical devices ▪ Hospitals and Medical Centres 	H2 pass in Mathematics and either Physics or Chemistry. Candidates who do not have a H2 pass in Biology will have to read the Biology Bridging Module (LSM1301) in the 1st year. Those without a H2 pass in Chemistry will have to read the Chemistry Bridging Module (CM1417) in the 1st year.	No
7.	Chemical Engineering#	<ul style="list-style-type: none"> ▪ Chemical Engineers ▪ Chemical Engineering Consultants ▪ Marketing Managers ▪ Researchers 	H2 pass in Mathematics, Chemistry and Physics.	No

8.	Civil Engineering#	<ul style="list-style-type: none"> ▪ Structural and design engineers for residential, commercial and industrial buildings, roads, power plants ▪ Transportation engineers ▪ Construction project managers ▪ Geotechnical engineers 	H2 pass in Mathematics and either Physics or Chemistry.	No
9.	Computer Engineering# (Jointly Conducted by Faculty of Engineering & School of Computing)	<p>Engineer in</p> <ul style="list-style-type: none"> ▪ electronic & microprocessor systems design ▪ Digital signal processing ▪ New media ▪ Multi-media design and development of edutainment ▪ Robotic control ▪ Smart consumer electronics ▪ Hardware & software design 	H2 pass in Mathematics and either Physics or Chemistry.	No
10.	Electrical Engineering#	<ul style="list-style-type: none"> ▪ Engineers in semi-conductor technology, integrated circuits & systems, power generation & distribution ▪ Sales and Technical support consultants 	H2 pass in Mathematics and either Physics or Chemistry.	No
11.	Common Engineering#	<ul style="list-style-type: none"> ▪ Various technical and non-technical positions in wide and varied industries 	H2 pass in Mathematics and either Physics or Chemistry.	No
12.	Engineering Science	<ul style="list-style-type: none"> ▪ Various technical and non-technical positions in wide and varied industries 	H2 pass in Mathematics and H2 Physics.	No

S/No	Course	Career Opportunities	Pre-requisite under the new 'A' level curriculum	Selection Test/ Interview
13.	Environmental Engineering#	<ul style="list-style-type: none"> ▪ Consultants on air and water pollution ▪ Industrial safety and health officers ▪ Environment management Officers 	H2 pass in Mathematics, Chemistry and Physics.	No
14.	Industrial & Systems Engineering#	<ul style="list-style-type: none"> ▪ Industrial system engineer ▪ Manufacturing manager ▪ Manager of corporate real estate and facility planning ▪ Project engineer ▪ Quality systems specialist 	H2 pass in Mathematics and either Physics or Chemistry.	No
15.	Materials Science and Engineering#	<ul style="list-style-type: none"> ▪ Specialist in materials for specific application ▪ Research in the use of materials 	H2 pass in Mathematics and either Physics or Chemistry.	No
16.	Mechanical Engineering#	<ul style="list-style-type: none"> ▪ Product design ▪ Engineer in the interdisciplinary fields 	H2 pass in Mathematics and either Physics or Chemistry.	No

Students without H1 or H2 Physics need to have an 'O' Level pass in Physics or its equivalent and they are required to take specified Physics bridging modules offered by the Faculty of Science.

S/No	Course	Career Opportunities	Pre-requisite under the new 'A' level curriculum	Selection Test/ Interview
MUSIC				
17.	Music	<ul style="list-style-type: none"> ▪ Musician ▪ Music Teacher ▪ Music Therapist ▪ Art Administrator ▪ Community Art Worker ▪ Sound Technician/ Broadcasting/ ▪ Film/video 	<p>Application for the Music course has to be filed directly to the Conservatory. Please refer to http://music.nus.edu.sg for more information.</p>	Yes

S/No	Course	Career Opportunities	Pre-requisite under the new 'A' level curriculum	Selection Test/ Interview
NUS BUSINESS SCHOOL				
18.	Business Administration	<ul style="list-style-type: none"> ▪ Banker ▪ Financial/ business consultant ▪ Marketing managers ▪ Risk/ Investment analyst ▪ Sales executives ▪ Entrepreneur 	H1 pass in Mathematics or pass in 'O' Level Additional Mathematics.	No
19.	Business Administration with Accountancy	<ul style="list-style-type: none"> ▪ Finance Executives ▪ Chartered certified accountant ▪ Chartered accountant ▪ Chartered public finance accountant ▪ Tax officer/Tax Auditor ▪ Accounts assistant 	H1 pass in Mathematics or pass in 'O' Level Additional Mathematics.	No
SCHOOL OF COMPUTING				
20.	Computing (Computer Science courses)	<ul style="list-style-type: none"> ▪ Programmer analyst ▪ Systems analyst ▪ Systems programmer ▪ End-user support analyst 	H2 pass in Computing or Mathematics or Physics; <u>OR</u> a good pass in H1 Mathematics.	No

S/No	Course	Career Opportunities	Pre-requisite under the new 'A' level curriculum	Selection Test/ Interview
21.	Computing (Information Systems Courses)	<ul style="list-style-type: none"> ▪ Programmer analyst ▪ Systems analyst ▪ Systems programmer ▪ End-user support analyst 	H2 pass in Computing; <u>OR</u> a good pass in H1 Mathematics.	No
FACULTY OF LAW				
22.	Law	<ul style="list-style-type: none"> ▪ Legal executive ▪ Advocate and Barrister's clerk ▪ Licensed conveyancer ▪ Advocate, Barrister and Solicitor 	At least B grade in H1 General Paper (GP); or a good pass in H2 Knowledge & Inquiry (KI); or SAT I Verbal / Critical Reading score of 700 accompanied by a minimum E grade for GP/KI.	Yes
FACULTY OF MEDICINE				
23.	Medicine	<ul style="list-style-type: none"> ▪ Medical Practitioners ▪ Surgical Specialists ▪ Medical Specialists ▪ Forensic scientist ▪ Toxicologist 	H2 pass in Chemistry and either Biology or Physics.	Yes
24.	Nursing	<ul style="list-style-type: none"> ▪ Nursing practitioners 	Pass in any two of the following H2 subjects: Biology, Chemistry, Computing, Physics and Mathematics.	Yes

S/No	Course	Career Opportunities	Pre-requisite under the new 'A' level curriculum	Selection Test/ Interview
FACULTY OF DENTISTRY				
25.	Dentistry	<ul style="list-style-type: none"> ▪ Dental officers in government services ▪ Academicians ▪ Researchers ▪ Dental surgeons in private practice 	H2 pass in Chemistry and either Biology or Physics.	Short listed candidates are required to take a manual dexterity test and to attend an interview.
FACULTY OF SCIENCE				
26.	Pharmacy	<ul style="list-style-type: none"> ▪ Pharmacists ▪ Medical Specialists ▪ Toxicologist 	H2 passes in Biology and Chemistry	No
27.	Science	<ul style="list-style-type: none"> ▪ Managers – in manufacturing, technical and quality control operations ▪ Public analyst ▪ Toxicologist ▪ Research scientist ▪ Technologist ▪ Chemist 	Pass in any two of the following H2 subjects: Biology, Chemistry, Computing, Physics and Mathematics. * The Faculty of Arts and Social Sciences and Faculty of Science offer many subjects which may require further subject prerequisites. Please refer to their respective website at http://www.science.nus.edu.sg for more information.	No

S/No	Course	Career Opportunities	Pre-requisite under the new 'A' level curriculum	Selection Test/ Interview
DOUBLE DEGREE PROGRAMMES				
28.	Business Administration & Communications and New Media	<ul style="list-style-type: none"> ▪ Information manager ▪ Business communicator ▪ Marketing managers ▪ Business Editor 	Minimum prevailing admission criteria of both courses. ¹	No
29.	Business Administration (Accountancy) & Communications and New Media	<ul style="list-style-type: none"> ▪ Information manager ▪ Business communicator ▪ Advertising accountant executive ▪ Agency Accountant director 		No
30.	Business Administration & Computing (Computer Science Courses)	<ul style="list-style-type: none"> ▪ IT Director ▪ IT Manager ▪ Analyst Programmer 	H2 pass in Computing, Mathematics or Physics; <u>OR</u> a good pass in H1 Mathematics. ²	No
31.	Business Administration & Computing (Information Systems)	<ul style="list-style-type: none"> ▪ Programmer analyst ▪ Systems analyst ▪ Systems programmer ▪ End-user support analyst 	H2 pass in Computing; <u>OR</u> a good pass in H1 Mathematics. ²	No

S/No	Course	Career Opportunities	Pre-requisite under the new 'A' level curriculum	Selection Test/ Interview
DOUBLE DEGREE PROGRAMMES				
32.	Business Administration (Accountancy) & Computing (Computer Science Courses)	As per specialization.	H2 pass in Computing, Mathematics or Physics; <u>OR</u> a good pass in H1 Mathematics. ²	No
33.	Business Administration (Accountancy) & Computing (Information Systems Courses)	As per specialization.	H2 pass in Computing; <u>OR</u> a good pass in H1 Mathematics. ²	No
34.	Business Administration & Law	<ul style="list-style-type: none"> ▪ Legal executive ▪ Advocate and Barrister's clerk ▪ Licensed conveyance ▪ Advocate, Barrister and Solicitor ▪ Legal Counsel ▪ Compliance manager ▪ Compliance specialist ▪ Paralegal ▪ Regulatory Affairs Analyst ▪ Marketing Managers ▪ Accountant 	H1 pass in Mathematics OR pass in 'O' Level Additional Mathematics, AND at least B grade in H1 General Paper (GP); or a good pass in H2 Knowledge & Inquiry (KI); or SAT I Critical Reading score of 700 accompanied by a minimum E grade for GP/KI.	Yes
35.	Business Administration (Accountancy) & Law			

S/No	Course	Career Opportunities	Pre-requisite under the new 'A' level curriculum	Selection Test/ Interview
DOUBLE DEGREE PROGRAMMES				
36.	Business Administration & Master of Public Policy	<ul style="list-style-type: none"> ▪ Executives ▪ Administrative Officers ▪ Managers ▪ Sales Executives 	H1 pass in Mathematics or pass in 'O' Level Additional Mathematics.	Yes
37.	Business Administration (Accountancy) & Master of Public Policy	<ul style="list-style-type: none"> ▪ Personnel Managers ▪ Marketing Managers ▪ Accountant ▪ Policy planners 		Yes
38.	Business Administration & Master of Science (Management)	<ul style="list-style-type: none"> ▪ Business consultant ▪ Marketing managers ▪ Risk/ Investment analyst ▪ Sales executives ▪ Entrepreneur 		Yes
39.	Business Administration (Accountancy) & Master of Science (Management)	<ul style="list-style-type: none"> ▪ Finance Executives ▪ Chartered certified accountant ▪ Chartered accountant ▪ Chartered public finance accountant ▪ Tax officer/Tax Auditor ▪ Accounts assistant 		Yes

S/No	Course	Career Opportunities	Pre-requisite under the new 'A' level curriculum	Selection Test/ Interview
DOUBLE DEGREE PROGRAMMES				
40.	Computing Communications and Media & Master of Entertainment Technology (Carnegie Mellon University)	<ul style="list-style-type: none"> ▪ Multimedia designer ▪ IT director ▪ Programmer 	H2 pass in Computing, Mathematics or Physics; OR a good pass in H1 Mathematics. ³	Yes
41.	Computing (Computational Biology) & Scientiae Magister in Computer Science-Computational Biology track (Brown University)	<ul style="list-style-type: none"> ▪ R&D specialists ▪ Technical support specialists ▪ Systems software specialists in the pharmaceutical, biomedical or biotechnology and IT industries. 	H2 pass in Computing, Mathematics or Physics; OR a good pass in H1 Mathematics. ⁴	Yes
42.	Computing (Information Systems Courses) and Master of Philosophy in Management (Cambridge University)	<ul style="list-style-type: none"> ▪ Programmer analyst ▪ Systems analyst ▪ Systems programmer ▪ End-user support analyst 	H2 pass in Computing; OR a good pass in H1 Mathematics. ⁵	Yes

43.	Computing (Information Systems Courses) and Master of Science (Management) (NUS)	<ul style="list-style-type: none"> ▪ Programmer analyst ▪ Systems analyst ▪ Systems programmer ▪ End-user support analyst 	H2 pass in Computing; OR a good pass in H1 Mathematics. ⁵	Yes
44.	Economics & Business Administration	<ul style="list-style-type: none"> ▪ Banker ▪ Financial/ business consultant ▪ Marketing managers ▪ Risk/ Investment analyst ▪ Sales executives ▪ Entrepreneur 	Minimum prevailing admission criteria of both courses. ⁷	No
45.	Economics & Business Administration (Accountancy)	<ul style="list-style-type: none"> ▪ Finance Executives ▪ Chartered certified accountant ▪ Chartered accountant ▪ Chartered public finance accountant ▪ Tax officer/Tax Auditor ▪ Accounts assistant 	Minimum prevailing admission criteria of both courses. ⁷	No
46.	Economics & Law	<ul style="list-style-type: none"> ▪ Legal executive ▪ Advocate and Barrister's clerk ▪ Licensed conveyance ▪ Advocate, Barrister and Solicitor ▪ Legal Counsel ▪ Compliance specialist ▪ Paralegal ▪ Regulatory Affairs Analyst 	H1 pass in Mathematics OR pass in 'O' Level Additional Mathematics, AND at least B grade in H1 General Paper (GP); or a good pass in H2 Knowledge & Inquiry (KI); or SAT I Critical Reading score of 700 accompanied by a minimum E grade for GP/KI.	Yes

S/No	Course	Career Opportunities	Pre-requisite under the new 'A' level curriculum	Selection Test/ Interview
DOUBLE DEGREE PROGRAMMES				
47.	Engineering & Business Administration	<ul style="list-style-type: none"> ▪ Various technical and non-technical positions in wide and varied industries ▪ Sales Managers ▪ Marketing Managers ▪ Customer service engineer ▪ Technical sales engineer 	Minimum prevailing admission criteria of both courses. ⁷	No
48.	Engineering & Business Administration (Accountancy)			No
49.	Engineering & Economics			<ul style="list-style-type: none"> ▪ Various technical and non-technical positions in wide and varied industries ▪ Investment analyst ▪ Executives
50.	Law & Life Sciences	<ul style="list-style-type: none"> ▪ Research and Development ▪ Life-Sciences related industries ▪ Biomedical, biopharmaceutical and healthcare related industries. 	At least B grade in H1 General Paper (GP); or a good pass in H2 Knowledge & Inquiry (KI); or SAT Critical Reading score of 700 accompanied by a minimum E grade for GP/KI AND H2 pass in Biology, Chemistry and either Mathematics or Physics.	Yes

S/No	Course	Career Opportunities	Pre-requisite under the new 'A' level curriculum	Selection Test/ Interview
DOUBLE DEGREE PROGRAMMES				
51.	Law & Master of Public Policy	<ul style="list-style-type: none"> ▪ Legal Officers ▪ Advocates and Solicitors ▪ Paralegal ▪ Policy makers 	At least B grade in H1 General Paper (GP); or a good pass in H2 Knowledge & Inquiry (KI); or SAT Critical Reading score of 700 accompanied by a minimum E grade for GP/KI.	Yes
52.	Mathematics/ Applied Mathematics & Computer Science	Operations management, financial analysis, risk management, information processing, IT, administration, education and research	An A grade in H2 Mathematics AND a good grade in H2 Computing or Physics or Chemistry or Biology.	No

1 Minimum admission criteria for Business Administration or Business Administration (Accountancy) is H1 pass in Mathematics or pass in 'O' Level Additional Mathematics.

As the Faculty of Arts and Social Sciences offer many subjects which may require further subject prerequisites, please refer to their respective website at <http://www.fas.nus.edu.sg> for more information.

2 Please refer to http://www.comp.nus.edu.sg/undergraduates/dd_computing_business.html for more information.

3 Please refer to http://www.comp.nus.edu.sg/undergraduates/cdp_carnegie.html for more information.

4 Please refer to http://www.comp.nus.edu.sg/undergraduates/cdp_brown.html for more information.

5 Please refer to http://www.comp.nus.edu.sg/undergraduates/cdp_cambridge.html for more information.

6 Please refer to http://www.comp.nus.edu.sg/undergraduates/cdp_bcomp_msc.html for more information.

7 Minimum admission criteria for Chemical Engineering and Environmental Engineering courses is H2 pass in Mathematics, Chemistry and Physics. Students without H1 or H2 Physics need to have an 'O' Level pass in Physics or its equivalent and would be required to take Physics bridging modules. Engineering Double Degree Programmes are open to all Engineering courses except for Engineering Science. As for the other Engineering courses, students without H1 or H2 Physics need to have an 'O' Level pass in Physics or its equivalent and would be required to take Physics bridging modules.

‘A’ Level Subject Requirements by Faculty for University Admission in 2011

SMU Courses

S/No	Course	Career Opportunities	Pre-requisite under the new ‘A’ level curriculum	Selection Test/ Interview
SCHOOL OF ACCOUNTANCY				
1.	Bachelor of Accountancy	<ul style="list-style-type: none"> ▪ Chartered certified accountant ▪ Chartered accountant ▪ Chartered public finance accountant ▪ Tax officer/Tax Auditor ▪ Accounts assistant 	<ul style="list-style-type: none"> ▪ Good passes in at least three H2 subjects, one H1 subject and Project Work ▪ A good pass in General Paper (GP) or Knowledge & Inquiry (KI) ▪ A good pass in Mathematics at H1 level or equivalent. ▪ A minimum of "S" grade in Mother Tongue Language.¹ ▪ SAT I: Reasoning Test² is optional (but an added advantage for those with strong scores; guideline for strong SAT I scores: > 1300 for old SAT format and > 1900 for new SAT format) 	Interview and essay writing (for shortlisted candidates)

S/No	Course	Career Opportunities	Pre-requisite under the new 'A' level curriculum	Selection Test/ Interview
LEE KONG CHIAN SCHOOL OF BUSINESS				
2.	Bachelor of Business Management	<ul style="list-style-type: none"> ▪ Entrepreneurs ▪ Corporate Executives ▪ Senior Administrators in the public and private sectors ▪ Banker ▪ Financial/ business consultant ▪ Marketing managers ▪ Risk/ Investment analyst ▪ Sales executive 	<ul style="list-style-type: none"> ▪ Good passes in at least three H2 subjects, one H1 subject and Project Work ▪ A good pass in General Paper (GP) or Knowledge & Inquiry (KI) ▪ A good pass in Mathematics at H1 level or equivalent. ▪ A minimum of "S" grade in Mother Tongue Language.¹ ▪ SAT I: Reasoning Test² is optional (but an added advantage for those with strong scores; guideline for strong SAT I scores: > 1300 for old SAT format and > 1900 for new SAT format) 	Interview and essay writing (for shortlisted candidates)

¹ Successful applicants who have not met the Mother Tongue requirement can still be admitted on a Conditional Offer but must satisfy the requirement before graduating from SMU.

² A score of 1900 or more will be minimally sufficient for applicants to make a competitive application. Please note that meeting the SAT guideline does not guarantee admission as admission to SMU is competitive and selective. The more competitive schools in SMU will usually require SAT scores of well above 1900. SMU will consider SAT scores for tests up to and including the May SAT. Scores from June SAT will not be considered.

S/No	Course	Career Opportunities	Pre-requisite under the new 'A' level curriculum	Selection Test/ Interview
SCHOOL OF ECONOMICS & SOCIAL SCIENCES				
3.	Bachelor of Science (Economics)	<ul style="list-style-type: none"> ▪ Entrepreneurs ▪ Business Analysts ▪ Consultants ▪ Policy Analysts ▪ Economist ▪ Financial risk analyst 	<ul style="list-style-type: none"> ▪ Good passes in at least three H2 subjects, one H1 subject and Project Work ▪ A good pass in General Paper (GP) or Knowledge & Inquiry (KI) ▪ A good pass in Mathematics at H1 level or equivalent. ▪ A minimum of "S" grade in Mother Tongue Language.¹ ▪ SAT I: Reasoning Test² is optional (but an added advantage for those with strong scores; guideline for strong SAT I scores: > 1300 for old SAT format and > 1900 for new SAT format) 	Interview and essay writing (for shortlisted candidates)
4.	Bachelor of Social Science	<ul style="list-style-type: none"> ▪ Teachers ▪ Researchers ▪ Academicians ▪ Journalists ▪ Public Relations Officers ▪ Administrative Officers ▪ Executive Officers ▪ Managers ▪ Tourism ▪ Arts and Cultural Activities 		

S/No	Course	Career Opportunities	Pre-requisite under the new 'A' level curriculum	Selection Test/ Interview
SCHOOL OF INFORMATION SYSTEMS				
5.	Bachelor of Science (Information Systems Management)	<ul style="list-style-type: none"> ▪ New Business Process Entrepreneurs ▪ Business Analysts ▪ Managers and Planners for new products and services ▪ Consultants ▪ Business System Architects ▪ Chief Information Officers and Chief Technology officers ▪ Knowledge Asset Managers ▪ Policy Analysts 	<ul style="list-style-type: none"> ▪ Good passes in at least three H2 subjects, one H1 subject and Project Work ▪ A good pass in General Paper (GP) or Knowledge & Inquiry (KI) ▪ A good pass in Mathematics at H1 level or equivalent. ▪ A minimum of "S" grade in Mother Tongue Language.¹ ▪ SAT I: Reasoning Test² is optional (but an added advantage for those with strong scores; guideline for strong SAT I scores: > 1300 for old SAT format and > 1900 for new SAT format) 	Interview and essay writing (for shortlisted candidates)

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S/No	Course	Career Opportunities	Pre-requisite under the new 'A' level curriculum	Selection Test/ Interview
SCHOOL OF LAW				
6.	Bachelor of Laws	<ul style="list-style-type: none"> ▪ Legal executive ▪ Paralegal Officers ▪ Advocate and Barrister's clerk ▪ Licensed conveyancer ▪ Advocates, barrister and solicitors 	<ul style="list-style-type: none"> ▪ Good passes in at least three H2 subjects, one H1 subject and Project Work ▪ A good pass in General Paper (GP) or Knowledge & Inquiry (KI). Law applicants must have a B grade and above for GP/KI. ▪ A good pass in Mathematics at H1 level or equivalent (not essential for Law applicants).. ▪ A minimum of "S" grade in Mother Tongue Language.¹ ▪ SAT I: Reasoning Test² is optional (but an added advantage for those with strong scores; guideline for strong SAT I scores: > 1300 for old SAT format and > 1900 for new SAT format) 	Interview and essay writing (for shortlisted candidates)

¹ Successful applicants who have not met the Mother Tongue requirement can still be admitted on a Conditional Offer but must satisfy the requirement before graduating from SMU.

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