

ENTRY REQUIREMENTS OF COURSES TO NANYANG POLYTECHNIC

SECTION

4b



To be eligible for consideration for admission to the various courses in Nanyang Polytechnic, applicants must obtain 26 points or better for the net ELR2B2 aggregate score (i.e. English Language, 2 relevant subjects and best 2 other subjects, including CCA Bonus Points) and meet the minimum entry requirements as shown in the table of courses in this section. CCA cannot be used to meet the minimum entry requirements.

The 2009 JAE COP (Cut-Off Points) as shown in this section, i.e. the net ELR2B2 aggregate score of the lowest ranked students who were admitted to these courses through the 2009 Joint Admissions Exercise (JAE), are meant as a reference for applicants applying to these courses and **do not** constitute the admission scores for subsequent admission exercises.

Courses	Course Code	Course Group	2009 JAE COP	Minimum Entry Requirements
BUSINESS MANAGEMENT				
Accountancy & Finance	C98	B	13	<p style="text-align: center;"><u>Subject Grade</u></p> <p>a) English Language 1-6 b) Mathematics (Elementary/ Additional) 1-6 c) Any three other subjects 1-6</p> <p>Note: <i>To be eligible for selection, you must also have sat for at least one of the following subjects:</i></p> <ul style="list-style-type: none"> • Art / Art & Design • Business Studies • Combined Humanities • Commerce • Commercial Studies • Economics • Geography • Higher Art • Higher Music • History • Introduction to Enterprise Development • Literature in English/Chinese/Malay/Tamil • Music • Principles of Accounts
Banking & Financial Services	C96	B	14	
Business Management Specialisations: <ul style="list-style-type: none"> • Human Resource Management • Retail Management • Supply Chain Management • Customer Relationship Management 	C94	B	16	
Fund Management & Administration	C56	B	16	
Marketing	C99	B	16	
Sport & Wellness Management	C81	B	16	
Hospitality & Tourism Management Specialisations: <ul style="list-style-type: none"> • Resort Management • Hotel Management 	C67	B	14	

Courses	Course Code	Course Group	2009 JAE COP	Minimum Entry Requirements
Media Studies & Management	C93	B	14	<p style="text-align: center;"><u>Subject</u> <u>Grade</u></p> <p>a) English Language 1-3 b) Mathematics (Elementary/ Additional) 1-6 c) Any three other subjects 1-6</p> <p>Note: <i>To be eligible for selection, you must also have sat for at least one of the following subjects:</i></p> <ul style="list-style-type: none"> • Art / Art & Design • Business Studies • Combined Humanities • Commerce • Commercial Studies • Economics • Geography • Higher Art • Higher Music • History • Introduction to Enterprise Development • Literature in English/Chinese/Malay/Tamil • Music • Principles of Accounts
CHEMICAL & LIFE SCIENCES				
Biologics & Process Technology	C49	C	17	<p style="text-align: center;"><u>Subject</u> <u>Grade</u></p> <p>a) English Language 1-7 b) Mathematics (Elementary/ Additional) 1-6 c) Any one of the following subjects: 1-6</p> <ul style="list-style-type: none"> • Biology • Chemistry • Combined Science • Design & Technology • Engineering Science • Fundamentals of Electronics • Physical Science • Physics • Science (Physics, Biology) • Science (Chemistry, Biology) • Science (Physics, Chemistry)
Chemical & Green Technology	C55	C	17	<p>Specialisations:</p> <ul style="list-style-type: none"> • Biopharmaceutical Technology • Process Technology
Chemical & Pharmaceutical Technology	C73	C	18	<p>Specialisations:</p> <ul style="list-style-type: none"> • Environment & Water Technology • Clean Energy Technology • Petrochemical Technology
Chemical & Pharmaceutical Technology	C73	C	18	<p>Specialisations:</p> <ul style="list-style-type: none"> • Petrochemical Technology • Pharmaceutical Technology

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Food Science & Nutrition	C69	C	17	<table border="0"> <thead> <tr> <th></th> <th><u>Subject</u></th> <th><u>Grade</u></th> </tr> </thead> <tbody> <tr> <td>a)</td> <td>English Language</td> <td>1-7</td> </tr> <tr> <td>b)</td> <td>Mathematics (Elementary/ Additional)</td> <td>1-6</td> </tr> <tr> <td>c)</td> <td>Any one of the following subjects:</td> <td>1-6</td> </tr> <tr> <td></td> <td>• Biology</td> <td></td> </tr> <tr> <td></td> <td>• Chemistry</td> <td></td> </tr> <tr> <td></td> <td>• Combined Science</td> <td></td> </tr> <tr> <td></td> <td>• Creative 3D Animation</td> <td></td> </tr> <tr> <td></td> <td>• Engineering Science</td> <td></td> </tr> <tr> <td></td> <td>• Food & Nutrition</td> <td></td> </tr> <tr> <td></td> <td>• Fundamentals of Electronics</td> <td></td> </tr> <tr> <td></td> <td>• General Science</td> <td></td> </tr> <tr> <td></td> <td>• Physical Science</td> <td></td> </tr> <tr> <td></td> <td>• Physics</td> <td></td> </tr> <tr> <td></td> <td>• Science (Physics, Biology)</td> <td></td> </tr> <tr> <td></td> <td>• Science (Chemistry, Biology)</td> <td></td> </tr> <tr> <td></td> <td>• Science (Physics, Chemistry)</td> <td></td> </tr> </tbody> </table>		<u>Subject</u>	<u>Grade</u>	a)	English Language	1-7	b)	Mathematics (Elementary/ Additional)	1-6	c)	Any one of the following subjects:	1-6		• Biology			• Chemistry			• Combined Science			• Creative 3D Animation			• Engineering Science			• Food & Nutrition			• Fundamentals of Electronics			• General Science			• Physical Science			• Physics			• Science (Physics, Biology)			• Science (Chemistry, Biology)			• Science (Physics, Chemistry)	
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Molecular Biotechnology Specialisations: <ul style="list-style-type: none"> • Biomedical Sciences • Bio-Pharmaceuticals • Research & Development (Microbiology & Immunology / Molecular Biology & Forensic) 	C74	C	15																																																				
Pharmaceutical Sciences Specialisations: <ul style="list-style-type: none"> • Pharmaceutical Practice • Clinical Trials 	C65	C	14																																																				
ENGINEERING																																																							
Aeronautical & Aerospace Technology ⑤	C51	C	15	<table border="0"> <thead> <tr> <th></th> <th><u>Subject</u></th> <th><u>Grade</u></th> </tr> </thead> <tbody> <tr> <td>a)</td> <td>English Language</td> <td>1-7</td> </tr> <tr> <td>b)</td> <td>Mathematics (Elementary/ Additional)</td> <td>1-6</td> </tr> <tr> <td>c)</td> <td>Any one of the following subjects:</td> <td>1-6</td> </tr> <tr> <td></td> <td>• Biology</td> <td></td> </tr> <tr> <td></td> <td>• Chemistry</td> <td></td> </tr> <tr> <td></td> <td>• Combined Science</td> <td></td> </tr> <tr> <td></td> <td>• Computer Studies</td> <td></td> </tr> <tr> <td></td> <td>• Design & Technology</td> <td></td> </tr> <tr> <td></td> <td>• Engineering Science</td> <td></td> </tr> <tr> <td></td> <td>• Fundamentals of Electronics</td> <td></td> </tr> <tr> <td></td> <td>• Physical Science</td> <td></td> </tr> <tr> <td></td> <td>• Physics</td> <td></td> </tr> <tr> <td></td> <td>• Science (Physics, Biology)</td> <td></td> </tr> <tr> <td></td> <td>• Science (Chemistry, Biology)</td> <td></td> </tr> <tr> <td></td> <td>• Science (Physics, Chemistry)</td> <td></td> </tr> </tbody> </table>		<u>Subject</u>	<u>Grade</u>	a)	English Language	1-7	b)	Mathematics (Elementary/ Additional)	1-6	c)	Any one of the following subjects:	1-6		• Biology			• Chemistry			• Combined Science			• Computer Studies			• Design & Technology			• Engineering Science			• Fundamentals of Electronics			• Physical Science			• Physics			• Science (Physics, Biology)			• Science (Chemistry, Biology)			• Science (Physics, Chemistry)				
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Aerospace Systems & Management ⑤	C52	C	14																																																				
Biomedical Engineering Specialisations: <ul style="list-style-type: none"> • Biomedical Device Design • Biomedical Processes & Quality System 	C71	C	19																																																				
Digital & Precision Engineering	C62	C	22																																																				
Specialisations: <ul style="list-style-type: none"> • Mould & Tool Design Analysis • Precision Tool & Component Manufacturing 																																																							
Electrical Engineering ① (New course in JAE)	C48	C	-																																																				

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Electronics, Computer & Communications Engineering ① Specialisations: <ul style="list-style-type: none"> Automation Design Embedded Systems Design Aerospace Electronics Wafer Fabrication Technology Wireless Communications Telematics System 	C89	C	26	<table border="0"> <thead> <tr> <th></th> <th><u>Subject</u></th> <th><u>Grade</u></th> </tr> </thead> <tbody> <tr> <td>a)</td> <td>English Language</td> <td>1-7</td> </tr> <tr> <td>b)</td> <td>Mathematics (Elementary/ Additional)</td> <td>1-6</td> </tr> <tr> <td>c)</td> <td>Any one of the following subjects:</td> <td>1-6</td> </tr> <tr> <td></td> <td> <ul style="list-style-type: none"> Biology Chemistry Combined Science Computer Studies Design & Technology Engineering Science Fundamentals of Electronics Physical Science Physics Science (Physics, Biology) Science (Chemistry, Biology) Science (Physics, Chemistry) </td> <td></td> </tr> </tbody> </table>		<u>Subject</u>	<u>Grade</u>	a)	English Language	1-7	b)	Mathematics (Elementary/ Additional)	1-6	c)	Any one of the following subjects:	1-6		<ul style="list-style-type: none"> Biology Chemistry Combined Science Computer Studies Design & Technology Engineering Science Fundamentals of Electronics Physical Science Physics Science (Physics, Biology) Science (Chemistry, Biology) Science (Physics, Chemistry) 	
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Manufacturing Engineering Specialisations: <ul style="list-style-type: none"> Aerospace Manufacturing Automation Systems Design Manufacturing Software Product Engineering 	C88	C	26																
Mechatronics Engineering ① Specialisations: <ul style="list-style-type: none"> Automation & System Integration Biomedical Engineering Wafer Fabrication Technology 	C87	C	26																
Multimedia & Infocomm Technology Specialisations: <ul style="list-style-type: none"> Infocomm Solutions Communications and Networking Interactive Media IT Service Management 	C75	C	24																
Nanotechnology & Materials Science Specialisations: <ul style="list-style-type: none"> Advanced Electronic Materials & Semiconductor Technology Functional & Structured Materials 	C50	C	18																
Telematics & Media Technology ① Specialisations: <ul style="list-style-type: none"> System Design Product Design 	C53	C	24																

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HEALTH SCIENCES																																				
Dental Hygiene & Therapy ②③	C72	C	14	<table border="0"> <thead> <tr> <th style="text-align: left;"><u>Subject</u></th> <th style="text-align: left;"><u>Grade</u></th> </tr> </thead> <tbody> <tr> <td>a) English Language</td> <td>1-7</td> </tr> <tr> <td>b) Mathematics (Elementary/ Additional)</td> <td>1-6</td> </tr> <tr> <td>c) Any one of the following subjects:</td> <td>1-6</td> </tr> <tr> <td> • Biology</td> <td></td> </tr> <tr> <td> • Chemistry</td> <td></td> </tr> <tr> <td> • Combined Science</td> <td></td> </tr> <tr> <td> • Engineering Science</td> <td></td> </tr> <tr> <td> • Food & Nutrition</td> <td></td> </tr> <tr> <td> • General Science</td> <td></td> </tr> <tr> <td> • Human & Social Biology</td> <td></td> </tr> <tr> <td> • Physical Science</td> <td></td> </tr> <tr> <td> • Physics</td> <td></td> </tr> <tr> <td> • Science (Physics, Biology)</td> <td></td> </tr> <tr> <td> • Science (Chemistry, Biology)</td> <td></td> </tr> <tr> <td> • Science (Physics, Chemistry)</td> <td></td> </tr> </tbody> </table>	<u>Subject</u>	<u>Grade</u>	a) English Language	1-7	b) Mathematics (Elementary/ Additional)	1-6	c) Any one of the following subjects:	1-6	• Biology		• Chemistry		• Combined Science		• Engineering Science		• Food & Nutrition		• General Science		• Human & Social Biology		• Physical Science		• Physics		• Science (Physics, Biology)		• Science (Chemistry, Biology)		• Science (Physics, Chemistry)	
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Nursing ②	C97*	C	28																																	
HUMANITIES																																				
Social Sciences (Social Work) (New course in JAE)	C47	B	-	<table border="0"> <thead> <tr> <th style="text-align: left;"><u>Subject</u></th> <th style="text-align: left;"><u>Grade</u></th> </tr> </thead> <tbody> <tr> <td>a) English Language</td> <td>1-6</td> </tr> <tr> <td>b) Mathematics (Elementary/ Additional)</td> <td>1-6</td> </tr> <tr> <td>c) Any three other subjects</td> <td>1-6</td> </tr> </tbody> </table> <p>Note: To be eligible for selection, you must also have sat for at least one of the following subjects:</p> <ul style="list-style-type: none"> • Art / Art & Design • Business Studies • Combined Humanities • Commerce • Commercial Studies • Economics • Geography • Higher Art • Higher Music • History • Introduction to Enterprise Development • Literature in English/Chinese/Malay/Tamil • Music • Principles of Accounts 	<u>Subject</u>	<u>Grade</u>	a) English Language	1-6	b) Mathematics (Elementary/ Additional)	1-6	c) Any three other subjects	1-6																								
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* Applicants require net ELR2B2-C aggregate score of 28 points or better to be eligible for C97.

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INFORMATION TECHNOLOGY												
Business Enterprise IT Specialisations: • Enterprise Process & Applications • Enterprise Database & Management	C68	C	18	<table border="0"> <thead> <tr> <th style="text-align: left;"><u>Subject</u></th> <th style="text-align: left;"><u>Grade</u></th> </tr> </thead> <tbody> <tr> <td>a) English Language</td> <td>1-7</td> </tr> <tr> <td>b) Mathematics (Elementary/ Additional)</td> <td>1-6</td> </tr> <tr> <td>c) Any two other subjects</td> <td>1-6</td> </tr> </tbody> </table> <p>Note: <i>To be eligible for selection, you must also have sat for at least one of the following subjects:</i></p> <ul style="list-style-type: none"> • Additional Combined Science • Additional Science • Biology • Chemistry • Combined Science • Computer Studies • Creative 3D Animation • Design & Technology • Engineering Science • Food & Nutrition • Fundamentals of Electronics • General Science • Human & Social Biology • Integrated Science • Physics • Physical Science • Science (Chemistry, Biology) • Science (Physics, Biology) • Science (Physics, Chemistry) • Science (Physics, Chemistry, Biology) 	<u>Subject</u>	<u>Grade</u>	a) English Language	1-7	b) Mathematics (Elementary/ Additional)	1-6	c) Any two other subjects	1-6
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Business Informatics Specialisations: • Business • Information Technology	C78	C	17									
Digital Entertainment Technology (Games) Specialisations: • Games Programming • Console Programming	C70	C	21									
Digital Visual Effects Specialisations: • Visual effects for games and real time application • Visual effects for animation and visualization	C57	C	20									
Engineering Informatics Specialisations: • Engineering Software Development • Network & IT Services • Integrated Logistics	C80	C	23									
Financial Informatics Specialisations: • Banking & Financial Services • Banking & Financial Applications	C58	C	17									
Information Security Specialisations: • InfoSecurity Technology • InfoSecurity Management	C54	C	19									
Information Technology Specialisations: • Digital Entertainment • Information Security • Internet & Mobile Computing • IT in Finance & Investment • IT in Life Sciences	C85	C	21									

Courses	Course Code	Course Group	2009 JAE COP	Minimum Entry Requirements												
MEDIA & DESIGN																
Digital Media Design (Animation) ④ Specialisations: • 2D and 3D Animation • Character Animation • Concept Art	C61	D	19	<table border="0"> <thead> <tr> <th></th> <th><u>Subject</u></th> <th><u>Grade</u></th> </tr> </thead> <tbody> <tr> <td>a)</td> <td>English Language</td> <td>1-7</td> </tr> <tr> <td>b)</td> <td>Mathematics (Elementary/ Additional)</td> <td>1-6</td> </tr> <tr> <td>c)</td> <td>Any three other subjects</td> <td>1-6</td> </tr> </tbody> </table> <p>Note: <i>To be eligible for selection, you must also have sat for at least one of the following subjects:</i></p> <ul style="list-style-type: none"> • Additional Combined Science • Additional Science • Art / Art & Design • Biology • Chemistry • Combined Science • Computer Studies • Creative 3D Animation • Design & Technology • Engineering Science • Food & Nutrition • Fundamentals of Electronics • General Science • Higher Art • Human & Social Biology • Integrated Science • Physics • Physical Science • Science (Chemistry, Biology) • Science (Physics, Biology) • Science (Physics, Chemistry) • Science (Physics, Chemistry, Biology) 		<u>Subject</u>	<u>Grade</u>	a)	English Language	1-7	b)	Mathematics (Elementary/ Additional)	1-6	c)	Any three other subjects	1-6
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Digital Media Design (Games) ④ Specialisations: • Games Art & Design	C60	D	21													
Digital Media Design (Interaction Design) ④ Specialisation: • Interaction Design for Media & Web	C59	D	21													
Motion Graphics & Broadcast Design ④ Specialisation: • Motion Design for Advertising, Film & Edutainment	C66	D	18													
Industrial Design ④	C83	D	21													
Space & Interior Design ④	C64	D	18	<table border="0"> <thead> <tr> <th></th> <th><u>Subject</u></th> <th><u>Grade</u></th> </tr> </thead> <tbody> <tr> <td>a)</td> <td>English Language</td> <td>1-7</td> </tr> <tr> <td>b)</td> <td>Mathematics (Elementary/ Additional)</td> <td>1-7</td> </tr> <tr> <td>c)</td> <td>Any three other subjects</td> <td>1-6</td> </tr> </tbody> </table> <p>Note: <i>To be eligible for selection, you must also have sat for at least one of the following subjects:</i></p> <ul style="list-style-type: none"> • Additional Combined Science • Additional Science • Art / Art & Design • Biology • Chemistry • Combined Science • Computer Studies • Creative 3D Animation • Design & Technology • Engineering Science • Food & Nutrition • Fundamentals of Electronics • General Science • Higher Art • Human & Social Biology • Integrated Science • Physics • Physical Science • Science (Chemistry, Biology) • Science (Physics, Biology) • Science (Physics, Chemistry) • Science (Physics, Chemistry, Biology) 		<u>Subject</u>	<u>Grade</u>	a)	English Language	1-7	b)	Mathematics (Elementary/ Additional)	1-7	c)	Any three other subjects	1-6
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Visual Communication ④	C63	D	16													

Note: (Nanyang Polytechnic)

The Polytechnic Course Groups are abbreviated as follows:

B: Business-Related Courses

C: Science & Technology Courses

D: Design Courses

- ① Applicants applying for these courses must ensure that they do not suffer from colour appreciation deficiency.
- ② Due to the special requirements of the healthcare professions, all applicants have to pass a medical examination and be free from physical handicap to ensure suitability.

Whilst not comprehensive, the following conditions will lead to non-acceptance into the course:

HBsAg positive/ Hepatitis B Carrier

Legal blindness

Active tuberculosis

Profound deafness

Psychiatric condition

Uncontrolled asthma

Uncontrolled epilepsy

Uncontrolled diabetes

Uncontrolled hypertension

Acquired immune deficiency syndrome (AIDS)

Mobility restricted (hindering performance)

Physical dependence upon mobility equipment

- ③ Candidates will be required to take a manual dexterity test by the relevant Selection Committee to determine their suitability for admission to the course.
- ④ Applicants with severe colour appreciation deficiency may encounter difficulties in some modules with high reliance on colour usage. Such candidates may be required to attend an interview to determine their suitability for admission to the course.
- ⑤ Applicants applying these courses must ensure that they do not suffer from either colour appreciation deficiency or hearing deficiency.

JOINT POLYTECHNIC SPECIAL ADMISSIONS EXERCISE (JPSAE)

The JPSAE is conducted at the same time as the JAE. Applicants who have special talents and/or demonstrate a strong passion/aptitude for the course, and wish to be considered based on criteria beyond academic results, are encouraged to also submit their applications through the JPSAE. Short-listed applicants under the JPSAE may be invited for an interview or test.

For more information on JPSAE, applicants may logon to www.polytechnic.edu.sg.