

# ENTRY REQUIREMENTS OF COURSES TO NGEE ANN POLYTECHNIC

SECTION

4C



**NGEE ANN**  
POLYTECHNIC

To be eligible for consideration for admission to the various courses in Ngee Ann 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																																																
<b>BUILT ENVIRONMENT</b>																																																				
Leisure & Business Facilities Management ② ④ ⑤	N40	C	15	<table border="0"> <thead> <tr> <th></th> <th>Subject</th> <th>Grade</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 &amp; 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 (Chemistry, Biology)</td> <td></td> </tr> <tr> <td></td> <td>• Science (Physics, Biology)</td> <td></td> </tr> <tr> <td></td> <td>• Science (Physics, Chemistry)</td> <td></td> </tr> </tbody> </table>		Subject	Grade	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 (Chemistry, Biology)			• Science (Physics, Biology)			• Science (Physics, Chemistry)	
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Real Estate Business	N48	C	18																																																	
Sustainable Urban Design & Engineering (New Course in JAE)	N89	C	-																																																	

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<b>BUSINESS</b>												
Accountancy	N51	B	11	<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><b>Note:</b> 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"> <li>• Art / Art &amp; Design</li> <li>• Business Studies</li> <li>• Combined Humanities</li> <li>• Commerce/Commercial Studies</li> <li>• Economics</li> <li>• Geography</li> <li>• Higher Art</li> <li>• Higher Music</li> <li>• History</li> <li>• Introduction to Enterprise Development</li> <li>• Literature in English/Chinese/Malay/Tamil</li> <li>• Music</li> <li>• Principles of Accounts</li> </ul>	<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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Arts Business Management (New Course in JAE)	N91	B	-									
Banking & Financial Services	N53	B	10									
Business & Social Enterprise	N79	B	13									
Business Studies <b>Options:</b> <ul style="list-style-type: none"> <li>• Entrepreneurship</li> <li>• Human Resource Management</li> <li>• International Business</li> <li>• Marketing</li> <li>• Marketing Communication</li> <li>• Psychology</li> <li>• Service Management</li> </ul>	N45	B	12									
International Business	N85	B	9									
International Supply Chain Management	N80	B	15									
Logistics Management	N58	B	16									
Tourism & Resort Management	N72	B	10									
<b>CHEMICAL &amp; LIFE SCIENCES</b>												
Biomedical Science / Biomedical Laboratory Technology ①	N59	C	9	<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> </tbody> </table> <ul style="list-style-type: none"> <li>• Biology</li> <li>• Chemistry</li> <li>• Combined Science</li> <li>• Engineering Science</li> <li>• Fundamentals of Electronics</li> <li>• Physical Science</li> <li>• Physics</li> <li>• Science (Chemistry, Biology)</li> <li>• Science (Physics, Biology)</li> <li>• Science (Physics, Chemistry)</li> </ul>	<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
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Molecular Biotechnology <b>Options:</b> <ul style="list-style-type: none"> <li>• Biopharmaceutical</li> <li>• Entrepreneurship</li> <li>• Forensic Medicine</li> </ul>	N49	C	12									
Pharmacy Science	N73	C	11									
Veterinary Bioscience (New Course in JAE)	N90	C	-									

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Chemical & Biomolecular Engineering  <b>Option:</b> Pharma & Biopharmaceutical	N56	C	14	<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"> <li>• Biology</li> <li>• Chemistry</li> <li>• Combined Science</li> <li>• Computer Studies</li> <li>• Design &amp; Technology</li> <li>• Engineering Science</li> <li>• Fundamentals of Electronics</li> <li>• Physical Science</li> <li>• Physics</li> <li>• Science (Chemistry, Biology)</li> <li>• Science (Physics, Biology)</li> <li>• Science (Physics, Chemistry)</li> </ul> </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"> <li>• Biology</li> <li>• Chemistry</li> <li>• Combined Science</li> <li>• Computer Studies</li> <li>• Design &amp; Technology</li> <li>• Engineering Science</li> <li>• Fundamentals of Electronics</li> <li>• Physical Science</li> <li>• Physics</li> <li>• Science (Chemistry, Biology)</li> <li>• Science (Physics, Biology)</li> <li>• Science (Physics, Chemistry)</li> </ul>	
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Horticulture & Landscape Management	N57	C	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 one of the following subjects:</td> <td>1-6</td> </tr> <tr> <td></td> <td> <ul style="list-style-type: none"> <li>• Biology</li> <li>• Chemistry</li> <li>• Combined Science</li> <li>• Design &amp; Technology</li> <li>• Engineering Science</li> <li>• Fundamentals of Electronics</li> <li>• Physical Science</li> <li>• Physics</li> <li>• Science (Chemistry, Biology)</li> <li>• Science (Physics, Biology)</li> <li>• Science (Physics, Chemistry)</li> </ul> </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"> <li>• Biology</li> <li>• Chemistry</li> <li>• Combined Science</li> <li>• Design &amp; Technology</li> <li>• Engineering Science</li> <li>• Fundamentals of Electronics</li> <li>• Physical Science</li> <li>• Physics</li> <li>• Science (Chemistry, Biology)</li> <li>• Science (Physics, Biology)</li> <li>• Science (Physics, Chemistry)</li> </ul>	
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Aerospace Electronics ② ③ ⑤  <b>Option:</b> Minor in Business Management	N75	C	14	<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"> <li>• Biology</li> <li>• Chemistry</li> <li>• Combined Science</li> <li>• Computer Studies</li> <li>• Design &amp; Technology</li> <li>• Engineering Science</li> <li>• Fundamentals of Electronics</li> <li>• Physical Science</li> <li>• Physics</li> <li>• Science (Chemistry, Biology)</li> <li>• Science (Physics, Biology)</li> <li>• Science (Physics, Chemistry)</li> </ul> </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"> <li>• Biology</li> <li>• Chemistry</li> <li>• Combined Science</li> <li>• Computer Studies</li> <li>• Design &amp; Technology</li> <li>• Engineering Science</li> <li>• Fundamentals of Electronics</li> <li>• Physical Science</li> <li>• Physics</li> <li>• Science (Chemistry, Biology)</li> <li>• Science (Physics, Biology)</li> <li>• Science (Physics, Chemistry)</li> </ul>	
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Aerospace Technology ② ③ ⑤  <b>Option:</b> Minor in Business Management	N65	C	12																
Audio-visual Technology ② ④ ⑤  <b>Option:</b> Minor in Business Management	N76	C	15																
Biomedical Engineering ② ④  <b>Option:</b> Minor in Business Management	N60	C	17																
Clean Energy Management ② ④	N84	C	16																

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Electrical Engineering ② ④ <b>Options:</b> <ul style="list-style-type: none"> <li>• Minor in Business Management</li> <li>• Electronics</li> <li>• Engineering Management</li> <li>• Power Engineering</li> <li>• Solar Technology</li> </ul>	N43	C	24	<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>• Computer Studies</td> <td></td> </tr> <tr> <td>• Design &amp; Technology</td> <td></td> </tr> <tr> <td>• Engineering Science</td> <td></td> </tr> <tr> <td>• Fundamentals of Electronics</td> <td></td> </tr> <tr> <td>• Physical Science</td> <td></td> </tr> <tr> <td>• Physics</td> <td></td> </tr> <tr> <td>• Science (Chemistry, Biology)</td> <td></td> </tr> <tr> <td>• Science (Physics, 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		• Computer Studies		• Design & Technology		• Engineering Science		• Fundamentals of Electronics		• Physical Science		• Physics		• Science (Chemistry, Biology)		• Science (Physics, Biology)		• Science (Physics, Chemistry)	
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Electronic & Computer Engineering ② ④ <b>Options:</b> <ul style="list-style-type: none"> <li>• Minor in Business Management</li> <li>• Aerospace Electronics</li> <li>• Computer and Communication Systems</li> <li>• Microelectronics</li> </ul>	N44	C	23																																	
Engineering with Business Management Programme ② ④ ⑥	N71	C	20																																	
Environmental & Water Technology ② ④ ⑤	N74	C	15																																	
Mechanical Engineering ② ⑤ <b>Options:</b> <ul style="list-style-type: none"> <li>• Minor in Business Management</li> <li>• 6-month Internship Programme</li> <li>• Automotive Technology &amp; Motorsport</li> <li>• Biomedical Applications</li> <li>• Design Innovation</li> <li>• Environment &amp; Energy Systems</li> <li>• Precision Engineering</li> </ul>	N41	C	23																																	
Mechatronic Engineering ② ④ ⑤ <b>Options:</b> <ul style="list-style-type: none"> <li>• Minor in Business Management</li> <li>• 6-month Internship Programme</li> <li>• Aerospace Applications</li> <li>• Automation &amp; Robotics</li> <li>• Micro Electromechanical Systems</li> </ul>	N50	C	23																																	

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Marine & Offshore Technology ② ⑤  <b>Options:</b> • Minor in Business Management • Design • Oil & Gas	N42	C	17	<table> <thead> <tr> <th></th> <th>Subject</th> <th>Grade</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 &amp; 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 (Chemistry, Biology)</td> <td></td> </tr> <tr> <td></td> <td>• Science (Physics, Biology)</td> <td></td> </tr> <tr> <td></td> <td>• Science (Physics, Chemistry)</td> <td></td> </tr> </tbody> </table>		Subject	Grade	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 (Chemistry, Biology)			• Science (Physics, Biology)			• Science (Physics, Chemistry)	
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<b>HEALTH SCIENCES</b>																																																				
Health Sciences (Nursing) ⑦	N69*	C	28	<table> <thead> <tr> <th></th> <th>Subject</th> <th>Grade</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>• Food &amp; Nutrition</td> <td></td> </tr> <tr> <td></td> <td>• General Science</td> <td></td> </tr> <tr> <td></td> <td>• Human &amp; Social Biology</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 (Chemistry, Biology)</td> <td></td> </tr> <tr> <td></td> <td>• Science (Physics, Biology)</td> <td></td> </tr> <tr> <td></td> <td>• Science (Physics, Chemistry)</td> <td></td> </tr> </tbody> </table>		Subject	Grade	a)	English Language	1-7	b)	Mathematics (Elementary/Additional)	1-6	c)	Any one of the following subjects:	1-6		• Biology			• Chemistry			• Combined Science			• Food & Nutrition			• General Science			• Human & Social Biology			• Physical Science			• Physics			• Science (Chemistry, Biology)			• Science (Physics, Biology)			• Science (Physics, Chemistry)				
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Optometry ②	N83	C	13	<table> <thead> <tr> <th></th> <th>Subject</th> <th>Grade</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>• Engineering 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 (Chemistry, Biology)</td> <td></td> </tr> <tr> <td></td> <td>• Science (Physics, Biology)</td> <td></td> </tr> <tr> <td></td> <td>• Science (Physics, Chemistry)</td> <td></td> </tr> </tbody> </table>		Subject	Grade	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			• Physical Science			• Physics			• Science (Chemistry, Biology)			• Science (Physics, Biology)			• Science (Physics, Chemistry)										
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\* Applicants require net ELR2B2-C aggregate score of 28 points or better to be eligible for N69.

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<b>HUMANITIES</b>																			
Psychology & Community Services ⑩	N77	B	10	<table border="0"> <thead> <tr> <th></th> <th style="text-align: center;"><u>Subject</u></th> <th style="text-align: center;"><u>Grade</u></th> </tr> </thead> <tbody> <tr> <td>a)</td> <td>English Language</td> <td>1-6</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><b>Note:</b> 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"> <li>• Art / Art &amp; Design</li> <li>• Business Studies</li> <li>• Combined Humanities</li> <li>• Commerce/Commercial Studies</li> <li>• Economics</li> <li>• Geography</li> <li>• Higher Art</li> <li>• Higher Music</li> <li>• History</li> <li>• Introduction to Enterprise Development</li> <li>• Literature in English/Chinese/Malay/Tamil</li> <li>• Music</li> <li>• Principles of Accounts</li> </ul>		<u>Subject</u>	<u>Grade</u>	a)	English Language	1-6	b)	Mathematics (Elementary/Additional)	1-7	c)	Any three other subjects	1-6			
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Chinese Media & Communication	N88	B	13	<table border="0"> <thead> <tr> <th></th> <th style="text-align: center;"><u>Subject</u></th> <th style="text-align: center;"><u>Grade</u></th> </tr> </thead> <tbody> <tr> <td>a)</td> <td>English Language</td> <td>1-6</td> </tr> <tr> <td>b)</td> <td>Mathematics (Elementary/Additional)</td> <td>1-7</td> </tr> <tr> <td>c)</td> <td>Higher Chinese <u>or</u> Chinese</td> <td>1-4 1-3</td> </tr> <tr> <td>d)</td> <td>Any two other subjects</td> <td>1-6</td> </tr> </tbody> </table> <p><b>Note:</b> 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"> <li>• Art / Art &amp; Design</li> <li>• Business Studies</li> <li>• Combined Humanities</li> <li>• Commerce/Commercial Studies</li> <li>• Economics</li> <li>• Geography</li> <li>• Higher Art</li> <li>• Higher Music</li> <li>• History</li> <li>• Introduction to Enterprise Development</li> <li>• Literature in English/Chinese/Malay/Tamil</li> <li>• Music</li> <li>• Principles of Accounts</li> </ul>		<u>Subject</u>	<u>Grade</u>	a)	English Language	1-6	b)	Mathematics (Elementary/Additional)	1-7	c)	Higher Chinese <u>or</u> Chinese	1-4 1-3	d)	Any two other subjects	1-6
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Courses	Course Code	Course Group	2009 JAE COP	Minimum Entry Requirements															
Chinese Studies ⑪	N70	B	11	<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>1-6</td> </tr> <tr> <td>b)</td> <td>Mathematics (Elementary/Additional)</td> <td>1-7</td> </tr> <tr> <td>c)</td> <td>Higher Chinese <b>or</b> Chinese</td> <td>1-4 1-2</td> </tr> <tr> <td>d)</td> <td>Any two other subjects</td> <td>1-6</td> </tr> </tbody> </table> <p><b>Note:</b> 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"> <li>• Art / Art &amp; Design</li> <li>• Business Studies</li> <li>• Combined Humanities</li> <li>• Commerce/Commercial Studies</li> <li>• Economics</li> <li>• Geography</li> <li>• Higher Art</li> <li>• Higher Music</li> <li>• History</li> <li>• Introduction to Enterprise Development</li> <li>• Literature in English/Chinese/Malay/Tamil</li> <li>• Music</li> <li>• Principles of Accounts</li> </ul>		<u>Subject</u>	<u>Grade</u>	a)	English Language	1-6	b)	Mathematics (Elementary/Additional)	1-7	c)	Higher Chinese <b>or</b> Chinese	1-4 1-2	d)	Any two other subjects	1-6
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Child Psychology & Early Education ⑧ ⑨	N86	B	13	<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>1-4</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><b>Note:</b> 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"> <li>• Art / Art &amp; Design</li> <li>• Business Studies</li> <li>• Combined Humanities</li> <li>• Commerce/Commercial Studies</li> <li>• Economics</li> <li>• Geography</li> <li>• Higher Art</li> <li>• Higher Music</li> <li>• History</li> <li>• Introduction to Enterprise Development</li> <li>• Literature in English/Chinese/Malay/Tamil</li> <li>• Music</li> <li>• Principles of Accounts</li> </ul>		<u>Subject</u>	<u>Grade</u>	a)	English Language	1-4	b)	Mathematics (Elementary/Additional)	1-6	c)	Any three other subjects	1-6			
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Early Childhood Education ⑦ ⑨	N66	B	15	<ul style="list-style-type: none"> <li>• Literature in English/Chinese/Malay/Tamil</li> <li>• Music</li> <li>• Principles of Accounts</li> </ul>															

Courses	Course Code	Course Group	2009 JAE COP	Minimum Entry Requirements								
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Business Information Technology	N61	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>1-6</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><b>Note:</b> 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"> <li>• Additional Combined Science</li> <li>• Additional Science</li> <li>• Biology</li> <li>• Chemistry</li> <li>• Combined Science</li> <li>• Computer Studies</li> <li>• Creative 3D Animation</li> <li>• Design &amp; Technology</li> <li>• Engineering Science</li> <li>• Food &amp; Nutrition</li> <li>• Fundamentals of Electronics</li> <li>• General Science</li> <li>• Human &amp; Social Biology</li> <li>• Integrated Science</li> <li>• Physical Science</li> <li>• Physics</li> <li>• Science (Chemistry, Biology)</li> <li>• Science (Physics, Biology)</li> <li>• Science (Physics, Chemistry)</li> <li>• Science (Physics, Chemistry, Biology)</li> </ul>	<u>Subject</u>	<u>Grade</u>	a) English Language	1-6	b) Mathematics (Elementary/Additional)	1-6	c) Any two other subjects	1-6
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Financial Informatics ②	N81	C	15	<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><b>Note:</b> 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"> <li>• Additional Combined Science</li> <li>• Additional Science</li> <li>• Biology</li> <li>• Chemistry</li> <li>• Combined Science</li> <li>• Computer Studies</li> <li>• Creative 3D Animation</li> <li>• Design &amp; Technology</li> <li>• Engineering Science</li> <li>• Food &amp; Nutrition</li> <li>• Fundamentals of Electronics</li> <li>• General Science</li> <li>• Human &amp; Social Biology</li> <li>• Integrated Science</li> <li>• Physical Science</li> <li>• Physics</li> <li>• Science (Chemistry, Biology)</li> <li>• Science (Physics, Biology)</li> <li>• Science (Physics, Chemistry)</li> <li>• Science (Physics, Chemistry, Biology)</li> </ul>	<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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Information Technology ② <b>Options:</b> • Business Management • Infocomm Sales & Marketing • Mobile Business Application • Solutions Architect	N54	C	17	<ul style="list-style-type: none"> <li>• Biology</li> <li>• Chemistry</li> <li>• Combined Science</li> <li>• Computer Studies</li> <li>• Creative 3D Animation</li> <li>• Design &amp; Technology</li> <li>• Engineering Science</li> <li>• Food &amp; Nutrition</li> <li>• Fundamentals of Electronics</li> <li>• General Science</li> <li>• Human &amp; Social Biology</li> <li>• Integrated Science</li> <li>• Physical Science</li> <li>• Physics</li> <li>• Science (Chemistry, Biology)</li> <li>• Science (Physics, Biology)</li> <li>• Science (Physics, Chemistry)</li> <li>• Science (Physics, Chemistry, Biology)</li> </ul>								
Multimedia & Animation ② ④ ⑤	N55	C	16	<ul style="list-style-type: none"> <li>• Human &amp; Social Biology</li> <li>• Integrated Science</li> <li>• Physical Science</li> <li>• Physics</li> <li>• Science (Chemistry, Biology)</li> <li>• Science (Physics, Biology)</li> <li>• Science (Physics, Chemistry)</li> <li>• Science (Physics, Chemistry, Biology)</li> </ul>								

Courses	Course Code	Course Group	2009 JAE COP	Minimum Entry Requirements																																																
Network Systems & Security ② ③ ⑫	N64	C	18	<table border="0"> <thead> <tr> <th></th> <th>Subject</th> <th>Grade</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 &amp; 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 (Chemistry, Biology)</td> <td></td> </tr> <tr> <td></td> <td>• Science (Physics, Biology)</td> <td></td> </tr> <tr> <td></td> <td>• Science (Physics, Chemistry)</td> <td></td> </tr> </tbody> </table>		Subject	Grade	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 (Chemistry, Biology)			• Science (Physics, Biology)			• Science (Physics, Chemistry)	
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Mass Communication ⑬	N67	B	10	<ul style="list-style-type: none"> <li>• History</li> <li>• Introduction to Enterprise Development</li> <li>• Literature in English/Chinese/Malay/Tamil</li> <li>• Music</li> <li>• Principles of Accounts</li> </ul>																																																

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Film, Sound & Video ② ③ ⑤ ⑭	N82	D	11	<ul style="list-style-type: none"> <li>• Additional Combined Science</li> <li>• Additional Science</li> <li>• Art / Art &amp; Design</li> <li>• Biology</li> <li>• Chemistry</li> <li>• Combined Science</li> <li>• Computer Studies</li> <li>• Creative 3D Animation</li> <li>• Design &amp; Technology</li> <li>• Engineering Science</li> <li>• Food &amp; Nutrition</li> <li>• Fundamentals of Electronics</li> <li>• General Science</li> <li>• Higher Art</li> <li>• Human &amp; Social Biology</li> <li>• Integrated Science</li> <li>• Physical Science</li> <li>• Physics</li> <li>• Science (Chemistry, Biology)</li> <li>• Science (Physics, Biology)</li> <li>• Science (Physics, Chemistry)</li> <li>• Science (Physics, Chemistry, Biology)</li> </ul>												
Product Design & Innovation ②	N68	D	18	<table border="0"> <thead> <tr> <th></th> <th style="text-align: center;"><u>Subject</u></th> <th style="text-align: center;"><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><b>Note:</b> 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"> <li>• Additional Combined Science</li> <li>• Additional Science</li> <li>• Art / Art &amp; Design</li> <li>• Biology</li> <li>• Chemistry</li> <li>• Combined Science</li> <li>• Computer Studies</li> <li>• Creative 3D Animation</li> <li>• Design &amp; Technology</li> <li>• Engineering Science</li> <li>• Food &amp; Nutrition</li> <li>• Fundamentals of Electronics</li> <li>• General Science</li> <li>• Higher Art</li> <li>• Human &amp; Social Biology</li> <li>• Integrated Science</li> <li>• Physical Science</li> <li>• Physics</li> <li>• Science (Chemistry, Biology)</li> <li>• Science (Physics, Biology)</li> <li>• Science (Physics, Chemistry)</li> <li>• Science (Physics, Chemistry, Biology)</li> </ul>		<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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**Note: (Ngee Ann Polytechnic)**

The Polytechnic Course Groups are abbreviated as follows:

B : Business-Related Courses            C : Science & Technology Courses            D : Design Courses

- ① The first year of Biomedical Science and Biomedical Laboratory Technology is common to all students. Students interested in the Diploma in Biomedical Laboratory Technology must not suffer from colour appreciation deficiency. At the end of the first year, they will attend an interview to be conducted by the Department of Laboratory Medicine, National University Hospital. Students not selected for the Diploma in Biomedical Laboratory Technology course will remain in the Biomedical Science course.
- ② Applicants with severe vision deficiency should not apply for these courses.
- ③ Applicants with colour appreciation deficiency are not eligible to apply for **N64 (Diploma in Network Systems & Security)**, **N65 (Diploma in Aerospace Technology)**, **N75 (Diploma in Aerospace Electronics)** and **N82 (Diploma in Film, Sound & Video)**.
- ④ Applicants with colour appreciation deficiency may apply for and be admitted into these courses if they pass an in-house test.
- ⑤ Applicants with hearing deficiency should not apply for these courses.
- ⑥ Students applying for **N71 (Engineering with Business Management Programme)** will spend the first semester doing the common modules as the four major engineering courses (i.e. Electronic & Computer Engineering, Electrical Engineering, Mechanical Engineering and Mechatronic Engineering). They will have one whole semester to discover their interest and affirm their decision. At the end of the first semester, they can apply to join one of the following nine engineering diploma courses with a minor in business management – Aerospace Electronics, Aerospace Technology, Audio-visual Technology, Biomedical Engineering, Electrical Engineering, Electronic & Computer Engineering, Marine & Offshore Technology, Mechanical Engineering or Mechatronic Engineering.
- ⑦ Applicants for **N66 (Diploma in Early Childhood Education)** and **N69 [Diploma in Health Sciences (Nursing)]** have to pass a medical examination and be free from physical handicap.

Whilst not comprehensive, the following medical conditions may lead to non-acceptance into the Early Childhood Education and Health Sciences (Nursing) courses:

Active tuberculosis	Uncontrolled epilepsy	Psychiatric condition
HBsAg positive / Hepatitis B Carrier	Uncontrolled asthma	Acquired immune deficiency syndrome (AIDS)
Legal Blindness	Uncontrolled hypertension	Mobility restricted
Uncontrolled diabetes	Profound deafness	Physical dependence upon mobility equipment

- ⑧ Applicants for **N86 (Diploma in Child Psychology & Early Education)** have to pass a medical examination.

Whilst not comprehensive, the following medical conditions may lead to non-acceptance into the Child Psychology & Early Education course:

Active tuberculosis	Uncontrolled epilepsy	Psychiatric condition
HBsAg positive / Hepatitis B Carrier	Uncontrolled asthma	Acquired immune deficiency syndrome (AIDS)
Legal Blindness	Uncontrolled hypertension	
Uncontrolled diabetes	Profound deafness	

- ⑨ **N66 (Diploma in Early Childhood Education)** and **N86 (Diploma in Child Psychology & Early Education)**

As stipulated by the Pre-school Qualifications Accreditation Committee (PQAC), with effect from January 2009, all new childcare and kindergarten teachers must have at least 5 GCE 'O' level passes, including a minimum grade of B4 in English as a First Language (EL1) or a minimum band score of 6.5 in the International English Language Testing System (IELTS – General Training), and a Diploma in Early Childhood Care and Education - Teaching. Therefore, to be readily employed upon graduation, all applicants should have a minimum grade of B4 in EL1.

Interested applicants with a minimum of 5 GCE 'O' level passes, including a minimum grade of B4 in EL1 but a D7 in Mathematics may apply for the course directly to Ngee Ann Polytechnic through the Direct Admissions Exercise (DAE) @ [www.np.edu.sg/aa/dae.html](http://www.np.edu.sg/aa/dae.html)

- ⑩ Applicants for **N77 (Diploma in Psychology & Community Services)** are required to undergo a medical examination to facilitate placement for community projects and attachments. Psychiatric conditions may lead to non-acceptance into the course.
- ⑪ **N70 (Diploma in Chinese Studies)**  
 Applicants who are keen on a teaching career with the Ministry of Education (MOE) are encouraged to apply under a separate exercise administered by MOE. Applicants should apply directly to MOE at the MOE teach website @ [www.moe.gov.sg/careers/teach/applying/form](http://www.moe.gov.sg/careers/teach/applying/form) Short-listed candidates will be invited for an interview to determine their eligibility for MOE teaching bursaries. Selected candidates for the teaching bursaries must pass a medical examination.
- ⑫ Applicants for **N64 (Diploma in Network Systems & Security)** who have successfully completed the Cisco Certified Network Associate (CCNA) course at the local secondary schools will be granted exemptions for relevant modules if they pass a practical test on a module that is equivalent to their highest completed CCNA module.

### **JOINT POLYTECHNIC SPECIAL ADMISSIONS EXERCISE (JPSAE)**

Current GCE 'O' level holders who possess exceptional talent in areas such as leadership, community service, entrepreneurship, sports and the arts or demonstrate a strong passion or aptitude through work attachments, sustained involvement in projects and outstanding performance in competitions, may be considered for discretionary admission under the JPSAE based on criteria beyond academic results. Application is via the joint polytechnic online portal @ [www.polytechnic.edu.sg/jpsae](http://www.polytechnic.edu.sg/jpsae) Short-listed candidates under the JPSAE will be invited for an interview.

The JPSAE is conducted at the same time as the JAE. All NP courses are open to JPSAE applicants. These include the following two courses with course-specific requirements:

- ⑬ **N67 (Diploma in Mass Communication)**  
 Besides the JAE, application for admission to the Mass Communication (MCM) course is also conducted through the Joint Polytechnic Special Admissions Exercise (JPSAE) for candidates with 2009 GCE 'O' level results. Those with 'O' level results of previous years or qualifications other than GCE 'O' levels should apply directly to Ngee Ann Polytechnic through the Direct Admissions Exercise (DAE) for Mass Communication. Applicants with strong writing, creative thinking and interpersonal skills are encouraged to apply. Applicants who do not meet the English requirement under the JAE but have attained a minimum grade of B4 in English are eligible to apply under the JPSAE / DAE. Short-listed candidates under the JPSAE / DAE will be invited for an interview.

JPSAE applicants for Mass Communication (MCM) should apply via the joint polytechnic online portal @ [www.polytechnic.edu.sg/jpsae](http://www.polytechnic.edu.sg/jpsae) during the JAE period. DAE applicants for MCM may apply online @ [www.np.edu.sg/admissions/apply/Pages/dae.aspx#dae\\_fsm](http://www.np.edu.sg/admissions/apply/Pages/dae.aspx#dae_fsm)

- ⑭ **N82 (Diploma in Film, Sound & Video)**  
 Besides the JAE, application for admission to the Film, Sound & Video (FSV) course is also conducted through the Joint Polytechnic Special Admissions Exercise (JPSAE) for candidates with 2009 GCE 'O' level results. Those with 'O' level results of previous years or qualifications other than GCE 'O' levels should apply directly to Ngee Ann Polytechnic through the Direct Admissions Exercise (DAE) for Film, Sound & Video. Applicants with strong creative abilities and a desire to express themselves through the visual media are encouraged to apply. Short-listed candidates under the JPSAE / DAE will be invited for an interview.

JPSAE applicants for Film, Sound & Video (FSV) should apply via the joint polytechnic online portal @ [www.polytechnic.edu.sg/jpsae](http://www.polytechnic.edu.sg/jpsae) during the JAE period. DAE applicants for FSV may apply online @ [www.np.edu.sg/admissions/apply/Pages/dae.aspx#dae\\_fsm](http://www.np.edu.sg/admissions/apply/Pages/dae.aspx#dae_fsm)