

**TAFE Directors Australia and AVETRA  
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**Title: University to TAFE – Recognising Higher Education  
on the Lifelong Learning Pathway**

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# **Title: University to TAFE – Recognising Higher Education on the Lifelong Learning Pathway**

## **Summary of Findings:**

The workforce of the Hunter Region has below state and national average levels of post school qualification. (Source: Hunter Valley Research Foundation). The Hunter Institute and University of Newcastle are working together, through the TAFE University Pathways Coordination Committee, to encourage local students and graduates to consider furthering their education at the two institutions. The development of credit transfer arrangements for graduates of both institutions is seen as one positive step in encouraging the acquisition of vocational or higher education qualifications within the region.

From 1996 to the present, the two institutions have worked together to develop credit transfer arrangements for students moving from TAFE to the University.

This new research investigates the level of enrolment by University of Newcastle graduates in Hunter Institute - TAFE NSW courses. The research analysed data, collected from enrolment forms by the TAFE NSW Statistics Unit, to identify the number of University of Newcastle graduates enrolling in courses at the Hunter Institute - TAFE NSW.

The findings showed that 3 in every 100 students at the Hunter Institute are university graduates, from Australia or overseas, and that 1 in every 100 students at the Hunter Institute is a graduate of the University of Newcastle. (Appendix 2)

The findings indicate that there is strong support for the Hunter Institute courses by graduates of the local university. The overall level of graduate enrolment, however, is below the state average of 6% of enrolments in TAFE courses being university graduates from Australia or overseas. (Appendix 1)

## **Research Outcomes: Improvements in Planning and Processes**

### **1. The Creation of Standard Exemption Arrangements for University of Newcastle Students in TAFE NSW Courses.**

The particular support for Hunter Institute courses by University of Newcastle graduates prompted the Committee to evaluate the provision of advanced standing arrangements for University students into TAFE NSW courses. This would smooth the pathway for the movement of these students to TAFE and consolidate the already strong educational relationship between the two organisations.

Prior to this research, the consideration of possible advanced standing arrangements had been undertaken on a retrospective basis, identifying the instances where advanced standing had been granted to individual students based on subjects completed at the University. In many cases, the advanced standing applied only to one student. The awarding of advanced standing solely on the basis university study was often complicated by the student in question also having undertaken complementary work experience, or a combination of courses contributing to possible advanced standing. This made the task of developing a data base of advanced standing arrangements difficult.

The research's identification of the extent and range of University of Newcastle graduate enrolment, and the assumption that at least as many students who had commenced studies, but not completed a full degree, were also enrolling in Hunter Institute courses, gave renewed vigour to the identification of advanced standing arrangements.

A new strategy was developed for creating advanced standing arrangements. Sixty first year courses offered within degree programs at the University of Newcastle were identified by the University. All these courses have high annual enrolments. Curriculum information about the courses was extracted from course outlines and sent the Recognition Coordinator of Hunter

Institute, for distribution to Program Managers within TAFE NSW Divisions for their consideration.

The Program Managers, where possible, mapped the University courses to the TAFE NSW modules, and, where possible, developed credit arrangements known in TAFE NSW as Standard Exemptions. These Standard Exemption arrangements were recorded on the TAFE NSW Course Information System, making them accessible on TAFE NSW staff computer systems throughout the state, and are identified in all curriculum documentation. This work will continue into the future as new courses and modules are developed.

Thus, students from the University of Newcastle now gain credit for their studies when they enrol in TAFE NSW courses containing the relevant modules. The state-wide application of these exemptions means that the credit is available not only within the Hunter Institute, but throughout the state. This is a desirable outcome given the present day mobility of students, and the preponderance of students from other regions who are residential students at the University of Newcastle.

The findings of the research also suggest that it may be possible to encourage more university graduates from other universities to enrol in Hunter Institute TAFE courses, to a level at least as high as that for other regions of Australia. This may contribute to the future prosperity of the region, by bringing more graduates of higher education to the region and thus contributing to the local workforce.

## **2. The Creation of the Hunter Institute Recognition Website**

The Hunter Institute has developed a comprehensive Recognition website as part of its internet site, and so will publicise these arrangements more extensively than other Institutes. As new Standard Exemption arrangements are progressively determined and recorded, they will be added to TAFE NSW documentation and the website. The website will be available to the public in Semester 1, 2004.

### **Conclusion:**

It is hoped that these strategies will increase the attractiveness of Hunter Institute as a destination for enrolment of graduates and students with incomplete university studies in TAFE courses, and help to raise the educational profile of the region by retaining graduates who might otherwise choose to further their vocational education elsewhere. The advanced standing granted to University of Newcastle students is also an appropriate gesture to acknowledge the significance to both institutions of the relationship that exists between them, and the sense of regional responsibility common to both.

**University to TAFE –  
Recognising Higher Education on the Lifelong Learning Pathway**

**Report to TAFE – University Pathways Coordination Committee**

Subtitle: The Creation of Pre-Arranged Recognition of Prior Learning  
(Standard Exemptions) for Students of the University of Newcastle

**Background:** This research project was developed out of the work of the *TAFE –University Pathways Consultative Committee*, formed between the Hunter Institute of TAFE NSW, and the University of Newcastle. The Committee, originally known as the *TAFE – University Articulation Committee*, was formed in 1996 and has worked since then to develop credit transfer arrangements for students completing courses at TAFE NSW and wishing to gain credit for their studies at the University of Newcastle. By 2003, credit arrangements into 61 of the 72 Bachelor Degree programs at the University have been developed. These arrangements are recorded on the University's website at [www.newcastle.edu.au/study/credit](http://www.newcastle.edu.au/study/credit).

As Recognition Coordinator for the Hunter Institute, I was aware in 1995 of Barry Golding's research indicating substantial university to TAFE movement of students. Barry Golding was invited to present a paper to the Committee in May 1998. In 1998 the Committee tabled a newspaper article: *Uni Graduates Flock to TAFE to Top Up Skills* (Nadia Jamal, SMH 22.8.98), further indicating the Committee's interest in the issue of university to TAFE articulation.

At that time, there was no clear information available about the number of students from particular universities moving to TAFE NSW, although the article cited above suggested that in 1998 more than 20,000 university graduates from Australia or overseas had enrolled in TAFE courses.

In 2002, TAFE NSW changed its statistical collection system to ask students to name the university where they had completed a degree. For the first time, it was possible to quantify the enrolment in TAFE NSW of university graduates from particular institutions. This research project aimed to collect that information, and then to make recommendations regarding how to best enable recognition of university study in TAFE NSW.

### **Method**

The Statistics Unit of TAFE NSW collects data from enrolment forms completed by students. The enrolment form contains questions about previous education levels. The questions are shown below:

3a. Have you successfully completed any qualifications?

1 Yes ? 2 No ?

3b. If YES, then place a Cross (x) in any of the applicable boxes:

01 ? Bachelor Degree or Higher Degree

Name of University - Please print name of University

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The question then detailed other possible qualifications the student might have completed.

Questions 3a and 3b, from 2002 onwards, enabled the Statistics Unit to record the University graduate status and the university attended. Prior to this time, the questions were differently

worded and recorded attendance rather than completion. There was also no request for students to identify the university attended.

The data was recorded and made available to institutes, on request, in a Microsoft Excel Spreadsheet format. The data was organised by course number, and numbers of enrolled graduates by Name of University. Hunter Institute seeks statistical data on Recognition from Statistics Unit on an annual basis to record levels of credit granted, and when this data became available it was eagerly sought.

At the Institute, analysis and manipulation of the data was carried out to enable scores to be developed for University of Newcastle graduate participation in Hunter Institute courses. Different entries might be encountered for the same institution. The University of Newcastle was variously recorded as:

University of Newcastle  
Newcastle University  
Newcastle

Central Coast University (a satellite campus of the University of Newcastle)

The data for each different entry for University of Newcastle was extracted and separately recorded on a new spreadsheet. Each entry for one or more University graduates was tallied and totalled to give a single score for each course. These scores were then organised by Australian Qualifications Framework (AQF) Level and tabulated in the format shown at Appendix 4. A summary of the number of University of Newcastle graduates enrolled in each course level is given at Appendix 3.

(The statistical analysis used data available to October 2003, so does not represent complete figures for 2003. The data will be reviewed when final enrolment figures are available in 2004.)

## **Findings**

Enrolments by graduates of University of Newcastle were distributed through all AQF levels of courses. Modes were recorded for Statement of Attainment courses with a legislative vocational requirement, such as Responsible Service of Alcohol, and Certificate IV courses with specific vocational requirements, such as Certificate IV in Assessment and Workplace Training. Significant enrolments were recorded in Business related courses such as Certificates IV in Small Business Administration and Financial Services (Accounting), as well as Certificate II level Information Technology courses.

## **Analysis**

TAFE NSW courses at all levels are clearly identified as appropriate post-graduate destinations by University graduates. Whether or not the courses are for specific vocational requirements, or community contribution activities such as Volunteer Literacy Tutoring, TAFE courses attract University graduates with a wide range of interests and vocational orientations. There does not appear to be any preference for higher level courses, as might be expected. Indeed, university graduates appear to be more likely to enrol in an AQF Certificate I, II, III or IV level of course, or a Statement of Attainment, than in a Diploma.

## **Conclusion**

The educational synergy between the regional university of the Hunter, the University of Newcastle, and the major vocational provider, Hunter Institute – TAFE NSW, is clearly demonstrated in this research. Even when graduates of the University are considered, rather than students who have completed any study at the University, the numbers of students from University enrolling in TAFE courses outnumbers those students moving from TAFE to University.

While the Committee has a clear focus, articulated over nearly 8 years of developing credit transfer arrangements, to increase the opportunities for TAFE students to undertake higher education, it also recognises the reverse pathway and its obvious benefit in maintaining graduate numbers in the region to the advantage of our local industry and community. The Committee will therefore investigate the opportunities for the development of advanced standing arrangements to enable a smoother educational pathway for University students undertaking further study at TAFE NSW.

The possibility of creating Standard Exemptions for multiple first year University of Newcastle courses will be investigated in a joint project between the Recognition Centre, Hunter Institute, cooperating with the Educational Divisions of TAFE NSW, and the University of Newcastle.

The timeframe for this project is for commencement in June 2003. At December 2003, nearly 100 standard exemption arrangements have been developed and submitted for entry on the TAFE Course Information System.

### **Acknowledgements**

As with most activities carried out in TAFE NSW, this was a collaborative project relying on support from a variety of sectors. In particular, Marion Doobov of the TAFE NSW Statistics Unit is gratefully acknowledged for her continuing support in extracting and interpreting the data available from the TAFE NSW Data Warehouse.

The project to develop Standard Exemptions has now commenced, and the invaluable contribution of Program Managers within TAFE NSW has made possible the development of many Standard Exemption arrangements so far.

Liliana Kershaw and Kylie Rowsell of Hunter Institute have provided valuable advice on the construction of the Recognition Centre website.

The members of the TAFE University Pathways Coordination Committee of Hunter Institute and the University of Newcastle are thanked for their dedication to the development of pathways to support the education of the people of the Hunter Region, and of all students who choose to study in Newcastle.

## Appendix 1

### University Graduate Enrolments in TAFE NSW

<b>Year</b>	<b>Total TAFE NSW Enrolments</b>	<b>University Graduate Enrolments</b>	<b>% of Total Enrolments</b>
2000	460908	26964	5.85%
2001	504496	29873	5.92%
2002	526083	34064	6.48%

## Appendix 2

### University Graduate Enrolments in Hunter Institute – TAFE NSW

Year	Total Number of Enrolments Hunter Institute (HI)	Total Number of University Graduate Enrolments	% of University Graduates of all HI enrolments	*Total Number of University Of Newcastle (UON) Graduate Enrolments in HI	UON Graduates as % of Total Graduate Enrolments in HI	UON Graduates as % of all Enrolments in HI
1997	48747	986	2.02%			
1998	46017	1429	3.1%			
1999	50281	1323	2.63%			
2000**	50141	1625	3.24%			
2001	53469	1469	2.75%			
2002	57312 (50211 at 1/10/02)	1717	3%	577	33.6%	1%
2003	52927 (at 1/10/2003)	1477 (at 1/10/03)	2.8%	442	30%	0.84%

NB \*Statistics showing previous University attended only became available in 2002.

\*\* Enrolments in Sydney Olympic Games volunteer training courses not included

**Comparison:** 265 students from Hunter Institute enrolled at the University of Newcastle in 2002.

### Appendix 3

#### Number of University of Newcastle Graduate Enrolments per AQF Course Level

<b>AQF Level of Qualification</b>	<b>Number of University of Newcastle Graduate Enrolments 2003</b>
Certificate 1	<b>37</b>
Certificate II	<b>53</b>
Certificate III	<b>63</b>
Certificate IV	<b>103</b>
Diploma	<b>35</b>
Advanced Diploma	<b>4</b>
Statement of Attainment	<b>119</b>
TAFE Statement	<b>3</b>
Course (Accredited Short Course)	<b>23</b>
Graduate Certificate	<b>2</b>
<b>TOTAL UON Graduate Enrolments 2003 (to 1/10/2003)</b>	<b>442</b>

## Appendix 4

### 2003 University of Newcastle Graduate Enrolments in Hunter Institute Courses (1/1/2003 to 1/10/2003) by AQF Course Level

Certificate I Enrolments			
TAFE NSW Course number	TAFE NSW Course Name	AQF Level of Qualification	Number of University of Newcastle Graduate Enrolments
7851	Fine Arts	Certificate I	8
9581	Italian	Certificate I	7
9575	Spanish	Certificate I	6
3750	Information Technology	Certificate I	3
4143	Japanese	Certificate I	3
9578	German	Certificate I	3
9584	French	Certificate I	3
4146	Chinese	Certificate I	2
7861	Aboriginal Arts and Culture	Certificate I	2
		<b>Subtotal:</b>	<b>37</b>
Certificate II Enrolments			
3650	Information Technology	Certificate II	7
7600	Printing and Graphic Arts	Certificate II	7
4196	Career Education and Employment for Women	Certificate II	4
4509	Hospitality Operations	Certificate II	4
9576	Spanish	Certificate II	4
9799	Computer Applications for the Office	Certificate II	4
7852	Fine Arts	Certificate II	3
625	Aboriginal Culture	Certificate II	2
7595	Media and Performance	Certificate II	2
7602	Printing and Graphic Arts	Certificate II	2
7678	Headwear/ Millinery	Certificate II	2
9479	Nail Technology	Certificate II	2
2673	Hospitality (Kitchen Operations)	Certificate II	1
3033	Auslan	Certificate II	1
3482	Natural Area Restoration	Certificate II	1
5806	Bushland Regeneration	Certificate II	1
7460	Fine Arts	Certificate II	1
9564	English for Speakers of Other Languages	Certificate II	1
9582	Italian	Certificate II	1
9585	French	Certificate II	1
9764	Business	Certificate II	1
9938	Retail Operations	Certificate II	1
		<b>Subtotal:</b>	<b>53</b>

Certificate III Enrolments			
TAFE NSW Course number	TAFE NSW Course Name	AQF Level of Qualification	Number of University of Newcastle Graduate Enrolments
9768	Business Administration	Certificate III	6
2076	Community Services (Welfare)	Certificate III	3
7018	Tourism (International Retail Travel Sales)	Certificate III	3
7029	Meetings and Events	Certificate III	3
7561	Ceramics	Certificate III	3
7679	Headwear/ Millinery	Certificate III	3
1894	Aged Care Nursing Assistant	Certificate III	2
3651	IT (Software Applications)	Certificate III	2
3652	IT (General)	Certificate III	2
5887	Animal Studies	Certificate III	2
6632	Nutrition and Dietary Practices	Certificate III	2
7022	Tourism (Guiding)	Certificate III	2
7853	Fine Arts	Certificate III	2
9263	Financial Services (Accounts Clerical)	Certificate III	2
9577	Spanish	Certificate III	2
9646	Investigative Services (Private Agency Practice)	Certificate III	2
9742	E-Business	Certificate III	2
69	Aboriginal Studies	Certificate III	1
663	Floristry	Certificate III	1
672	Horticulture Landscape	Certificate III	1
674	Horticulture Parks	Certificate III	1
1832	Fitness	Certificate III	1
3282	Community Services (Disability Work)	Certificate III	1
3286	Community Services (Youth Work)	Certificate III	1
3291	Community Services (Children's Services )	Certificate III	1
3683	Library and Information Services	Certificate III	1
4163	Education Support	Certificate III	1
6849	Laboratory Skills	Certificate III	1
7078	General Construction (Carpentry-Framework/Formwork)	Certificate III	1
7516	News Media	Certificate III	1
7839	Screen	Certificate III	1
7960	Furnishing (Woodturning)	Certificate III	1
9241	Electronics	Certificate III	1
9481	Beauty	Certificate III	1
9580	German	Certificate III	1
9586	French	Certificate III	1
9968	Electrical Wiring	Certificate III	1
		<b>Subtotal:</b>	<b>63</b>

Certificate IV Enrolments			
TAFE NSW Course number	TAFE NSW Course Name	AQF Level of Qualification	Number of University of Newcastle Graduate Enrolments
8388	Assessment and Workplace Training	Certificate IV	32
9792	Business (Human Resources)	Certificate IV	8
8882	Workplace Safety	Certificate IV	7
9787	Business (Small Business Management)	Certificate IV	6
9264	Financial Services (Accounting)	Certificate IV	4
2077	Community Services (Welfare)	Certificate IV	3
3659	IT (Programming)	Certificate IV	3
9672	Property (Real Estate)	Certificate IV	3
9762	Business Management	Certificate IV	3
9770	Business Administration	Certificate IV	3
3550	Natural Area Restoration	Certificate IV	2
3656	IT (Network Management)	Certificate IV	2
3752	IT (Help Desk)	Certificate IV	2
7499	Digital Arts and Media	Certificate IV	2
7890	Graphic Design Foundation	Certificate IV	2
9699	Financial Services (General Insurance)	Certificate IV	2
9739	Public Relations	Certificate IV	2
9775	Business (Marketing)	Certificate IV	2
658	Coal Operational Management	Certificate IV	1
2129	Structural Engineering	Certificate IV	1
3265	Community Services (Aged Care Work)	Certificate IV	1
3658	IT (Technical Support)	Certificate IV	1
3755	IT (Website Administration)	Certificate IV	1
4281	Fluid Power	Certificate IV	1
5888	Veterinary Nursing	Certificate IV	1
6850	Laboratory Techniques	Certificate IV	1
7025	Tourism (Operations)	Certificate IV	1
7684	Clothing Production	Certificate IV	1
7811	Music Industry (Business)	Certificate IV	1
7820	Music Industry (Technical Production)	Certificate IV	1
9436	Financial Services	Certificate IV	1
9482	Beauty Therapy	Certificate IV	1
9978	Environmental Monitoring	Certificate IV	1
		<b>Subtotal:</b>	<b>103</b>
TAFE "Course" Enrolments – Accredited short courses			
9831	Literacy Tutoring	Course	13
1284	Owner-Builder Information	Course	3
5891	Viticulture Studies	Course	3
6186	On-Site Sewage Management	Course	2
8068	Demolition and Supervision II	Course	1
8069	Demolition Supervision I	Course	1
		<b>Subtotal:</b>	<b>23</b>

Diploma Enrolments			
TAFE NSW Course number	TAFE NSW Course Name	AQF Level of Qualification	Number of University of Newcastle Graduate Enrolments
3685	Library and Information Services	Diploma	7
2078	Community Services (Welfare)	Diploma	4
3293	Community Services (Children's Services )	Diploma	4
9673	Property (Real Estate)	Diploma	3
3560	General Land Management	Diploma	2
7531	Fine Arts	Diploma	2
8387	Training And Assessment Systems	Diploma	2
1822	Laboratory Techniques (Pathology Testing)	Diploma	1
2947	Geographic Information Systems	Diploma	1
2951	Surveying	Diploma	1
3664	IT (Network Engineering)	Diploma	1
5865	Horticulture	Diploma	1
6852	Laboratory Techniques (Process Manufacturing)	Diploma	1
7026	Tourism (Marketing and Product Deveopment)	Diploma	1
8478	Textiles Clothing and Footwear	Diploma	1
9767	Business	Diploma	1
9789	Business Management	Diploma	1
9795	Business ( Human Resources)	Diploma	1
		<b>Subtotal:</b>	<b>35</b>
Advanced Diploma Enrolments			
TAFE NSW Course number	TAFE NSW Course Name	AQF Level of Qualification	Number of University of Newcastle Graduate Enrolments
7813	Music Industry (Business)	Advanced Diploma	2
9266	Accounting	Advanced Diploma	1
9434	Accounting	Advanced Diploma	1
		<b>Subtotal:</b>	<b>4</b>
Graduate Certificate Enrolments			
9593	Management Communication	Graduate Certificate	2

Statement of Attainment Enrolments			
TAFE NSW Course number	TAFE NSW Course Name	AQF Level of Qualification	Number of University of Newcastle Graduate Enrolments
6650	Responsible Service of Alcohol	Statement of Attainment	21
4515	Responsible Conduct of Gambling	Statement of Attainment	19
3492	Outreach Access	Statement of Attainment	12
9877	Manufacturing and Engineering	Statement of Attainment	11
9422	Employment Skills	Statement of Attainment	6
4971	Signed English	Statement of Attainment	5
7594	Photography Foundation	Statement of Attainment	5
8898	Business Skills	Statement of Attainment	5
6649	Hotel Licensees	Statement of Attainment	4
9993	Computer Aided Drafting	Statement of Attainment	4
7527	Skills and Practices - Fine Arts	Statement of Attainment	2
7528	Creative Fine Arts	Statement of Attainment	2
8130	Horse Industry Studies	Statement of Attainment	2
8228	Foundry Metal Casting	Statement of Attainment	2
8390	Plan, Conduct, Review Assessment	Statement of Attainment	2
8880	Real Estate Practice	Statement of Attainment	2
9547	Hospitality Operative Skills	Statement of Attainment	2
9682	Introduction to Microsoft Office	Statement of Attainment	2
652	Organic Farming Studies	Statement of Attainment	1
5553	Farm Mechanics	Statement of Attainment	1
5562	Agricultural Studies	Statement of Attainment	1
6007	Electrical Security Installers	Statement of Attainment	1
8053	Civil and Structural Engineering	Statement of Attainment	1
8429	Reception Skills	Statement of Attainment	1
9566	Foundation and Vocational Studies	Statement of Attainment	1
9568	Foundation and Vocational Studies	Statement of Attainment	1
9684	Computing Skills for the Office	Statement of Attainment	1
9685	Word Processing	Statement of Attainment	1
9997	Computer Accounting	Statement of Attainment	1
		<b>Subtotal:</b>	<b>119</b>
<b>TAFE Statement Enrolments</b>			
8036	Asbestos Removal	TAFE Statement	1
9322	Non-Destructive Testing	TAFE Statement	1
9974	Renewable Energy	TAFE Statement	1
		Subtotal:	3
<b>TOTAL to 1/10/2003</b>			<b>442</b>

## Appendix 5

### UNIVERSITY OF NEWCASTLE COURSES WITH STANDARD EXEMPTION ARRANGEMENTS IN TAFE NSW 29 March 2004

	University of Newcastle Course Number	Course Name	TAFE Module/ Unit Number
1	AART1400	Photomedia: Introduction	7422HE Using a Camera 7461EB Photography, Gen 5478A Art Photography – E 7422HD Basic Photograph
2	ACFI1020	Financial Management	9434N Financial Managem
3	ACFI1101	Financial Accounting	9434A Accounting 1 9434B Accounting 2
4	ARTC1020	Digital Imaging 1A	7465EB Creative Technolo 7480D Using a Digital Cam 5499T Creative Technolog 7530F Creative Use of Dig
5	BIOL1110	Introductory Biology: Ecosystems and Communities	3550C Monitor Biodiversity 4900AN Nature of Australia 4900TN Nature of Australia 4900BN Nature of Australia 4900VN Nature of Australia 4900AE Investigating Ecos 4900TE Investigating Ecos

	University of Newcastle Course Number	Course Name	TAFE Module/ Unit Number
6	BIOL1120	Introductory Biology: Populations, Genetics and Evolution	3550C Monitor Biodiversity 4900AL Biology A 4900TL Biology A 4900BL Biology B 4900VL Biology B
7	BIOL2070	Ecology	3428E Conduct Biological 3428C Develop A Mgt Plan 3560B Conduct Field Rese 3550C Monitor Biodiversity
8	BUSN1250	Foundations of Accounting Practice	9434A Accounting 1 9434B Accounting 2
9	DESN1100	Visual Communication Principles 1	5371A Design Elements ar
10	EBUS1010	Introduction to eBusiness	3750A Operate A Persona 3750B Operate A Word Pro 3750C Operate A Spreadsh 3750D Operate A Databas 3750E Operate a Presenta 3750F Send and Receive I using Browsers and Email 3671D Lan Technologies 3751B Use Personal Produ 3650U Accessing the Intern 3674A Exploring the Intern 3674B Understanding the I

	University of Newcastle Course Number	Course Name	TAFE Module/ Unit Number
11	ELEC1300	Electrical Engineering 1	7769AC Circuit Analysis 1 7793A Electrical Principles 7793B Electrical Principles 7793AW Applied Electricity 7793AY Applied Electricity
12	ELEC1700	Computer Engineering 1	7794C Digital Electronics I 7794D Digital Electronics II
13	EMGT2050	Australian Fauna	3480A Recognise Animals 3428H Manage Fauna Pop
14	GEOS1040	Earth's Dynamic Systems	3550C Monitor Biodiversity 3428G Manage Natural Ar 3428C Develop Managemen 3550D Produce Maps for L
15	GEOS1110	Earth Materials	No exemptions yet identifi
16	INFO1010	Introduction to Information Systems and Technology	3650G Operate Computer 3750A Operate A Persona 3750C Operate A Spreadsh 3750D Operate A Databas 3750E Operate a Presenta 3750F Send and Receive I using Browsers and Email 3751B Use Personal Produ 3650U Accessing the Intern 3674A Exploring the Intern 3674B Understanding the I
	University of Newcastle Course Number	Course Name	TAFE Module/ Unit Number
17	INFO1020	Information Storage and Management	3750D Operate A Databas 3761A Design a Database 3761G Use SQL to create manipulate data 3761B Build a Database

18	LEGL1001	Foundations of Law	0069Q Legal Environment 8395F Commercial Law 1
19	MATH1100	Preliminary Mathematics	7759Q Engineering Maths 7759R Engineering Maths 4930AE Foundation Maths 4930TE Foundation Maths
20	MATH1110	Mathematics 1	7759R Engineering Maths 7759P Calculus 4930BF Calculus 4930VF Calculus
21	MATH1120	Mathematics 2	7759P Calculus 4930BF Calculus 4930VF Calculus 4930BM Advanced Maths 4930VM Advanced Maths
22	OHSE1210	Safety Science 1	No exemptions yet identified
23	OHSE1410	OH&S Practice 1	4930AS Introductory Statistics 4930AT Introductory Statistics
24	PHYS1200	Introductory Physics	4900AP Physics A 4900TP Physics A 4900BP Physics B 4900VP Physics B

	University of Newcastle Course Number	Course Name	TAFE Module/ Unit Number
25	SENG1110	Introduction to Software Engineering 1	3664G Create Utility Programs 3757L Compile and Run Programs 3757X Build Java Applets 3757T Write and Document Programs 6032G Control Programs 7763A Database and 4GL
26	SENG6110	Introduction to Software Engineering 1	3664G Create Utility Programs 3757L Compile and Run Programs 3757X Build Java Applets 3757T Write and Document Programs
27	SOCA1020	Introduction to Social and Cultural Anthropology	4974AG Australia's Asia Pacific 4974AH Multicultural Australia 4974AP Human Rights and 4974BP Comparative Studies
28	SRMT1010	Sustainable Resource Management: Natural Systems	3478A Conduct Erosion and 3496A Provide Information 3496E Implement Maintenance Environment 3496F Undertake A Site Assessment 3497B Carry out inspection 3496M Maintain Natural Areas
29	WEBI607	Information Storage and Management	3750D Operate A Database 3761A Design a Database 3761G Use SQL to Create Data 3761B Build a Database

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