

DIVISION OF FACILITIES MANAGEMENT
Planning, Design and Construction

CSU Residential School Learning & Teaching Space 2017 Subject Analysis Report

Version No: 1.0 | June 2017



Executive Summary

As part of Charles Sturt University's (CSU) ongoing review of learning and teaching space utilisation, this report outlines the analysis of all subjects taught for the duration of the 2017 Session 1 Residential School period (02/04/17 to 13/04/17).

This report expands upon subject analysis undertaken for the 2016 and 2017 Session 1 Residential School Learning and Teaching Space Utilisation Reports undertaken for the Wagga Wagga Campus. Within these reports it was speculated if instances of excessive bookings of space experienced on the Wagga Wagga Campus was replicated across all campuses over the same residential school period. This report provides a subject level analysis of bookings and enrolment data for the 2017 Session 1 Residential School period covering the Albury-Wodonga, Bathurst, Orange and Wagga Wagga Campuses. Analysis and reporting was conducted by the Division of Facilities Management.

Key findings of this report show:

- The Wagga Wagga and Bathurst campuses cover 86% of subjects taught over the Residential School period in Session 1, 2017.
- Analysis of the subjects, their respective Banner Student enrolments and the number of hours of space booked within Syllabus Plus (timetable) demonstrates there are excessive bookings made across all disciplines and campuses with the exception of Orange Campus.
- Current timetabling processes are seen as a key contributor to this phenomenon whereby a number of subject bookings significantly exceeded requirements in terms of the ratio of students to space.

Whilst not outlining a set of specific recommendations, this report will be provided to the Division of Student Administration (DSA) to contribute to the ongoing analysis of learning and teaching timetable processes across the University.

Table of Contents

1.0	Introduction.....	3
1.1	Scope	3
1.2	Governance.....	4
2.0	Subject Analysis	4
2.1	Albury-Wodonga Campus	6
2.2	Bathurst Campus.....	8
2.3	Orange Campus	10
2.4	Wagga Wagga Campus	12
3.0	Key Observations.....	14
4.0	Appendix	15
4.1	Residential School Subject Data.....	15

1.0 Introduction

The purpose of this report is to provide a subject level assessment of learning and teaching space booking frequency in relation to student enrolment data at Charles Sturt University for the 2017 Session 1 Residential School period. This study covers all Residential School subjects scheduled on the Albury-Wodonga, Bathurst, Orange and Wagga Wagga Campuses. This Residential School period took place between April 2nd and April 13th, 2017.

Learning and teaching spaces are a key element to the fabric of CSU's campuses. Residential Schools provide CSU students studying online the opportunity to attend campus for face-to-face lectures, tutorials and laboratory classes which, in many cases, is the only physical interface a student has to the organisation. Previous studies of the Wagga Wagga Campus Residential School period conducted during the 2016 Session 2 and 2017 Session 1 Residential Schools indicated a number of subject bookings significantly exceeded actual requirements for learning and teaching space. This impacted the wider Residential School period in a number of ways:

- Other subject bookings had to be relocated to less premium spaces.
- Mothballed facilities required recommissioning to accommodate bookings.
- Increased energy, cleaning and security costs.
- A reduced student experience by running classes in less than suitable facilities and geographically diluting the student cohort.

This report draws upon three key sources of data. Timetabling data for CSU's learning and teaching spaces is acquired from Syllabus Plus, the University's enterprise timetabling scheduler, subject and student enrolment data extracted from Banner Student and residential school timeframes taken from the 2017 University Handbook.

Analysis and reporting was conducted by the Division of Facilities Management (DFM). This document serves to trigger conversation within the University community regarding the current processes and practices relating to the scheduling of space for Residential Schools within CSU. This document will also provide significant benefit to ongoing planning of space and further insight into forward strategy decisions relating to CSU's approach to timetabling and ultimately, the experience of our online student cohort.

1.1 Scope

This report provides a subject-level analysis of all Residential School subjects scheduled on the Albury-Wodonga, Bathurst, Orange and Wagga Wagga Campuses during the 2017 Session 1 Residential School period (April 2nd to April 13th, 2017). CSU's on-campus sessional teaching and additional residential school periods outside of Session 1, 2017 have not been reviewed and are therefore not covered in this report.

1.2 Governance

The following organisational stakeholders have been identified:

- Division of Facilities Management (DFM)
- Division of Student Administration (DSA)

This document will be tabled with two organisational committees within CSU:

1. Residential Schools Steering Committee
2. Timetable Governance Committee

2.0 Subject Analysis

Analysis of subject data using data from the University timetable, Banner, the University Handbook indicates a number of anomalies in the correlation of assumed learning and teaching space need versus actual bookings. Table 1 provides a breakdown of all subjects taught during the 2017 Session 1 Residential School period highlighting excessive booking of space based on assumed space requirements for student numbers over the duration of the subject's class booking. This is indicative of blanket booking whereby multiple spaces are booked for whole days or the duration of the subject. Comparison of Residential School class bookings with physical audit results indicates that a large percentage of scheduled time is not used by classes. Refer to the 2016 and 2017 CSU Residential School Learning and Teaching Space Review documents for further detail.

Campus: 2017 Session 1 Residential School	Number of subjects taught	Bookings less than the expected "2x" space requirements	Bookings greater than or equal to (\geq) the expected space requirements			
			"2x "	"3x"	"4x"	"5x plus"
Wagga Wagga	71	28	15	12	5	11
Bathurst	28	4	12	0	2	10
Albury-Wodonga	11	3	3	1	4	0
Orange	5	1	4	0	0	0
TOTAL	115	36	34	13	11	21

Table 1 - CSU 2017 Session 1 Residential School: Breakdown of each campuses subjects taught and booking expected space requirement ratios.

Potential drivers for this form of booking include process - historically larger student cohorts and a rollover of the previous year's bookings or, pedagogy - more flexible, fluid teaching requirements meaning a greater need for space to undertake breakout activities. Further consultation with subject coordinators is required to understand in more detail the rationale behind high hours of bookings but it is clear that, for some subjects, the numbers reported are excessive. Ultimately overbooked space can

be reallocated to other subjects or not allocated resulting in savings in operational costs for security, cleaning and energy.

Four campuses (Wagga Wagga, Bathurst, Albury-Wodonga and Orange) have been analysed in detail to give a graphical display of subjects taught over the residential school period. For each campus, analysis indicates some subjects have been timetabled with excessive levels of room bookings for spaces. Table 2 provides detailed explanation regarding the separation of graphed elements aligning with subject data highlighted in the individual campus tables. Anomalous subject space bookings are clearly identifiable when compared to the collective dataset. Sixty one percent of subjects fell within expected space requirements of one to two times booking ratio.

Graph Element	Element Explanation
Blue Dot / Red Halo	Bookings in excess of 5x estimated space requirements
Blue Dot / Orange Halo	Bookings in excess of 4x estimated space requirements
Blue Dot / Blue Halo	Bookings in excess of 3x estimated space requirements
Blue Dot / No Halo	Bookings falling within expected (1-2x) space requirements
Black Dot / No Halo	Bookings for subjects with no Residential School
Red Dot / No Halo	Subjects with Banner enrolments exist and residential schools listed in the handbook but no bookings within the timetable.

Table 2 - CSU 2017 Session 1 Residential School: Breakdown of each campuses graphed elements.

Booking ratio was calculated on total timetabled hours booked per subject reconciled with an expected maximum eight hours of teaching per day. It is expected that some subjects may have booking ratios greater than one based on potential requirements for laboratory and teaching spaces or breakout group teaching. With this said, any subjects with a ratio greater than two have been highlighted. Furthermore there were a number of booking anomalies whereby subjects flagged as a scheduled residential schools did not correlate with a corresponding timetable entry.

Ongoing analysis of subject level booking data is recommended to clearly define the actual requirement for spaces to align with pedagogy outcomes. Current auditing processes do not provide detail relating to use of space outside of subject bookings. That is, DFM cannot reliably reconcile actual subject hours taught if lessons were conducted in spaces other than those booked or were undertaken without bookings.

Based on the above, there is a significant argument that high levels of blanket booking of space exist. There is also additional qualitative evidence that a number of subjects are not booked within the timetable, possibly booked at a faculty level using faculty facilities. Reasons for this may include exclusivity of space or some schools choosing not to use the timetable to book space.

The concept of the campus being full during residential schools is based more on perceptions derived from bookings. In actuality, there is plentiful space for the teaching of residential school subjects on campus. In order to achieve a more equitable and balanced approach to subject bookings, it is

recommended the principles and processes behind Residential School subject space bookings be re-examined to identify why booking anomalies exists.

The Residential School period covered four of the major campuses (excluding Port Macquarie). The Dubbo Campus had only one instance of a Residential School subject, IKC301, (Wiradjuri Language) which was taught out of the Wagga Wagga Campus, Wal Fife Building, Flat Floor spaces (14-101 & 102) over 3 days with 80 hours of facility use for 33 students. This is rolled up into the Wagga statistics. The study has also identified subjects which have been taught concurrently. These subjects have been combined within the analysis and graphing. Further analysis of 'bundled subjects' is recommend to ensure pedagogical and actual space usage needs are better understood.

2.1 Albury-Wodonga Campus

The Albury-Wodonga campus hosted a total of eleven (11) subjects during the study period. Figure 1 graphically displays all subjects with Residential School bookings based on student subject enrolment and timetable booking data. Whilst there are only a relatively small number of subjects taught during the Residential school period, there are still anomalies that require further investigation. Based on timetable data, the average subject teaching duration of a Residential School during this period was 3.27 days.

Table 3 lists those subjects for which there was an estimated overbooking ratio in excess of three times (3x). Some subjects have booked multiple spaces concurrently, which resulted in the estimated overbooking ratio to be much higher than other subjects.

Two of the eleven subjects, PKM363 (Shoreline Recreation Management) and PKM397 (Heritage Site Management) are field work residential schools and are unlikely to use the campus classrooms to any large extent. Therefore the graph shows these as the two 'Red Dot/No Halo' points with students enrolled but no hours booked in the timetable.

Albury Campus 2017 Session 1 Residential School: Analysis of Subjects						
Subject	School	Faculty	Banner Enrolment	Residential School Days	Total Hours Booked	Estimated Overbooking Ratio
BIO203	SES	FOS	37	2	64	4
BMS271	SBS	FOS	16	4	120	4
BMS171	SBS	FOS	27	4	120	4
SPH512/SPH513	SCH	FOS	56	5	149.5	4
BMS161	SBS	FOS	25	4	80	3

Table 3 - Albury Campus 2017 Session 1 Residential School: Analysis of subjects with an estimated overbooking ratio of 3x times what would be expected based on total booked hours.

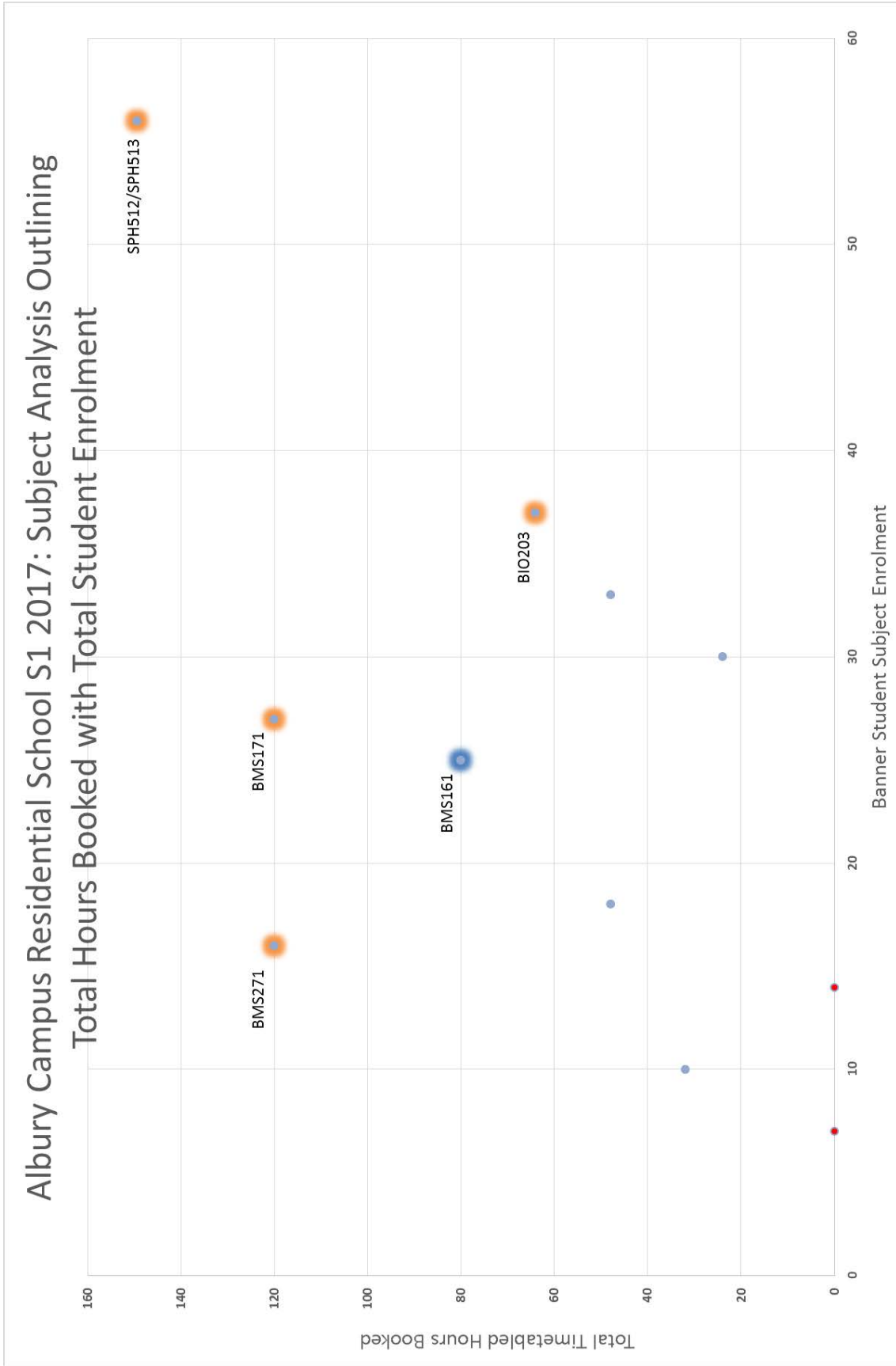


Figure 1 - Albany-Wodonga Campus 2017 Session 1 Residential School: Subject Analysis Outlining Total Hours Booked with Total Student Enrolment.

2.2 Bathurst Campus

The Bathurst Campus, held a total of twenty-eight (28) subjects over the course of the 2017 Session 1 Residential School period. Figure 2 displays all subjects with Residential School bookings based on student subject enrolment and timetable booking data. A clear cluster of subjects appears with cohorts under fifty students and bookings of fifty hours or less. Based on timetable data, the average duration of a residential school during this period was 1.93 days.

Table 4 lists those subjects for which there was an estimated overbooking ratio in excess of four times (4x). Some subjects such as EHR519 and EHR520 have booked a significant amount of multiple spaces at the same time. While space may be freely available on campus to accommodate overbookings, it must be questioned as to why so much space is really needed to facilitate single day Residential Schools.

The Bathurst campus has a wider spread of subjects taught than the smaller campuses. All subjects listed have timetable classes and therefore there are no 'Black Dot/No Halo' or 'Red Dot/No Halo' points on the graph. Sixteen subjects of the twenty-eight taught (57%) fall within the accepted '2 or less' estimated overbooking ratio (ie: Blue Dot/No Halo).

Bathurst Campus 2017 Session 1 Residential School: Analysis of Subjects						
Subject	School	Faculty	Banner Enrolment	Residential School Days	Total Hours Booked	Estimated Overbooking Ratio
EHR520	SESSH	FOS	84	1	153	19
EHR519	SESSH	FOS	101	1	144	18
PSY437	SOP	FOAE	39	1	80	10
NRS211	SNMIH	FOS	227	3	216	9
CLS412	SBS	FOS	28	4	273	9
PSY301	SOP	FOAE	60	2	99	6
BMS191	SBS	FOS	61	3	136	6
PSY461	SOP	FOAE	45	2	81	5
NRS112	SNMIH	FOS	37	3	108	5
PSY424	SOP	FOAE	54	2	72	5
EHR119	SESSH	FOE	40	1	32	4
LAW216	CLJ	FOBJBS	59	1	32	4

Table 4 - Bathurst Campus 2017 Session 1 Residential School: Analysis of subjects with an estimated overbooking ratio of 4x times what would be expected based on total booked hours.

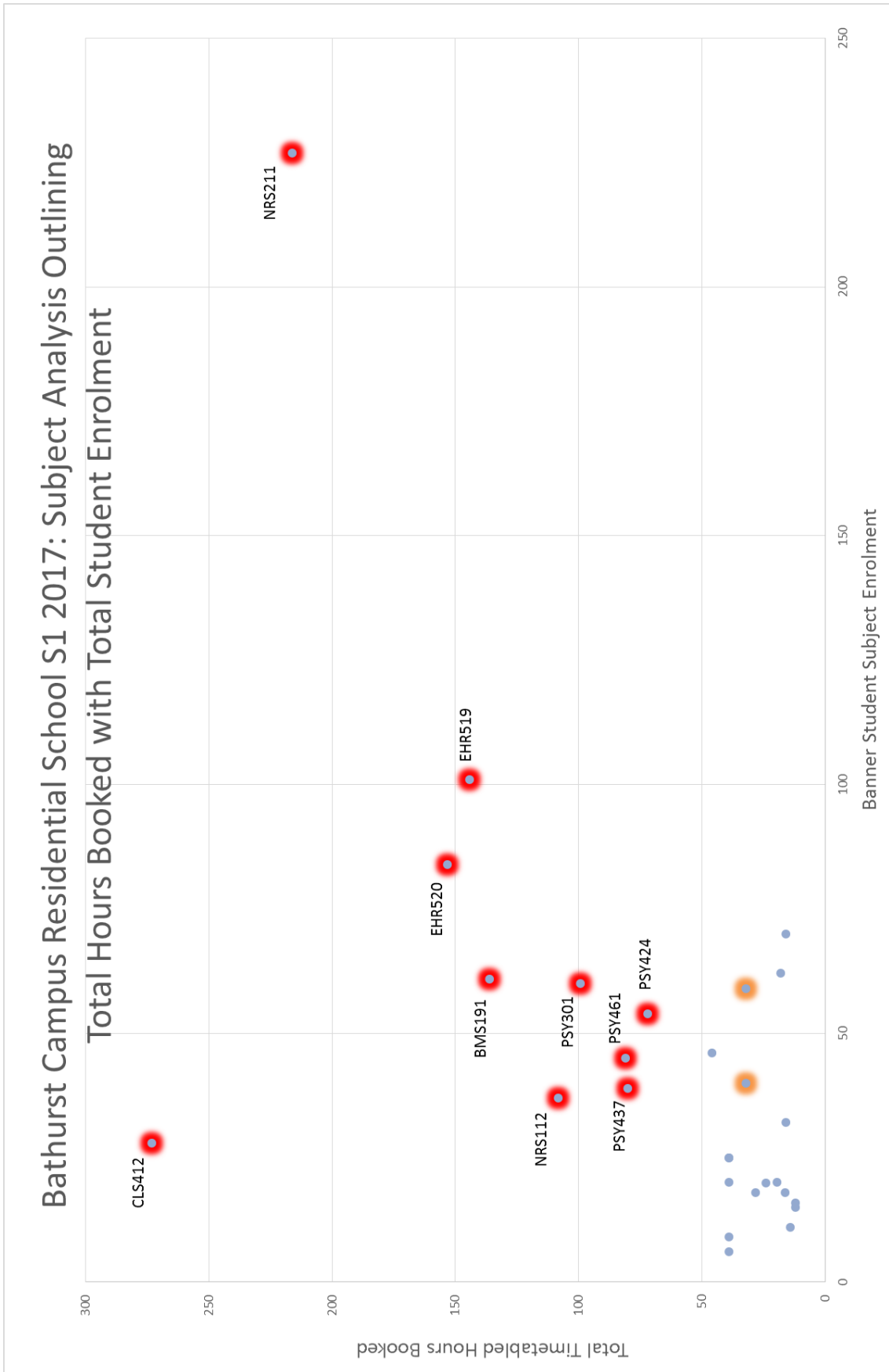


Figure 2 - Bathurst Campus 2017 Session 1 Residential School: Subject Analysis Outlining Total Hours Booked with Total Student Enrolment.

2.3 Orange Campus

Figure 3 displays all subjects with Residential School bookings based on student subject enrolment and timetable booking data for the Orange Campus. There were only five (5) subjects taught during the Session 1 Residential School period, with little need for further investigation. Based on timetable data, the average duration of a residential school during this period was 1.60 days. Table 5 lists all subjects with their corresponding estimated overbooking ratio. There are no subjects that are in excess of two times (2x), which at present is considered an acceptable ratio.

As would be expected the subjects taught are entirely within the Faculty of Science, and mainly the School of Agricultural and Wine Sciences. The subject BMS192* (Human Bioscience 2) although having 40 students enrolled has no timetabled classes on the campus. A possible reason may be that it was taught without informing timetabling, therefore the 'Red Dot/No Halo' point with students enrolled but no timetabled bookings. The occurrence of subjects with either no enrolment or booking data should be investigated to understand if these anomalies are related to historical roll-over bookings from previous years or subjects that are not using formal processes to schedule space.

Orange Campus 2017 Session 1 Residential School: Analysis of Subjects						
Subject	School	Faculty	Banner Enrolment	Residential School Days	Total Hours Booked	Estimated Overbooking Ratio
AGR304	SAWS	FOS	5	1	17	2
AHT254	SAWS	FOS	6	1	17	2
AGS202	SAWS	FOS	5	2	25.5	2
HRT307	SAWS	FOS	0	2	24	2
BMS192*	SBS	FOS	40	2	0	0

Table 5 - Orange Campus 2017 Session 1 Residential School: Analysis of subjects with the estimated overbooking ratio of times what would be expected based on total booked hours.

Given the quantum of learning and teaching space facilities available on the Orange Campus such as specialist science laboratories, lecture theatres and flat floor teaching spaces, there is undeniably opportunity to consider the Campus hosting some Residential School subjects in place of the Wagga Wagga Campus. This would greatly alleviate current space challenges relating to specialist science laboratory spaces on the Wagga Wagga Campus and allow for the potential decommissioning and reassignment of older laboratory spaces that are essentially maintained for the purposes of Residential Schools. This would further benefit the Wagga Wagga Campus by alleviating pressure on residential accommodation. Further analysis would be required to understand interrelationships between subjects to understand the potential of Residential School relocation further.

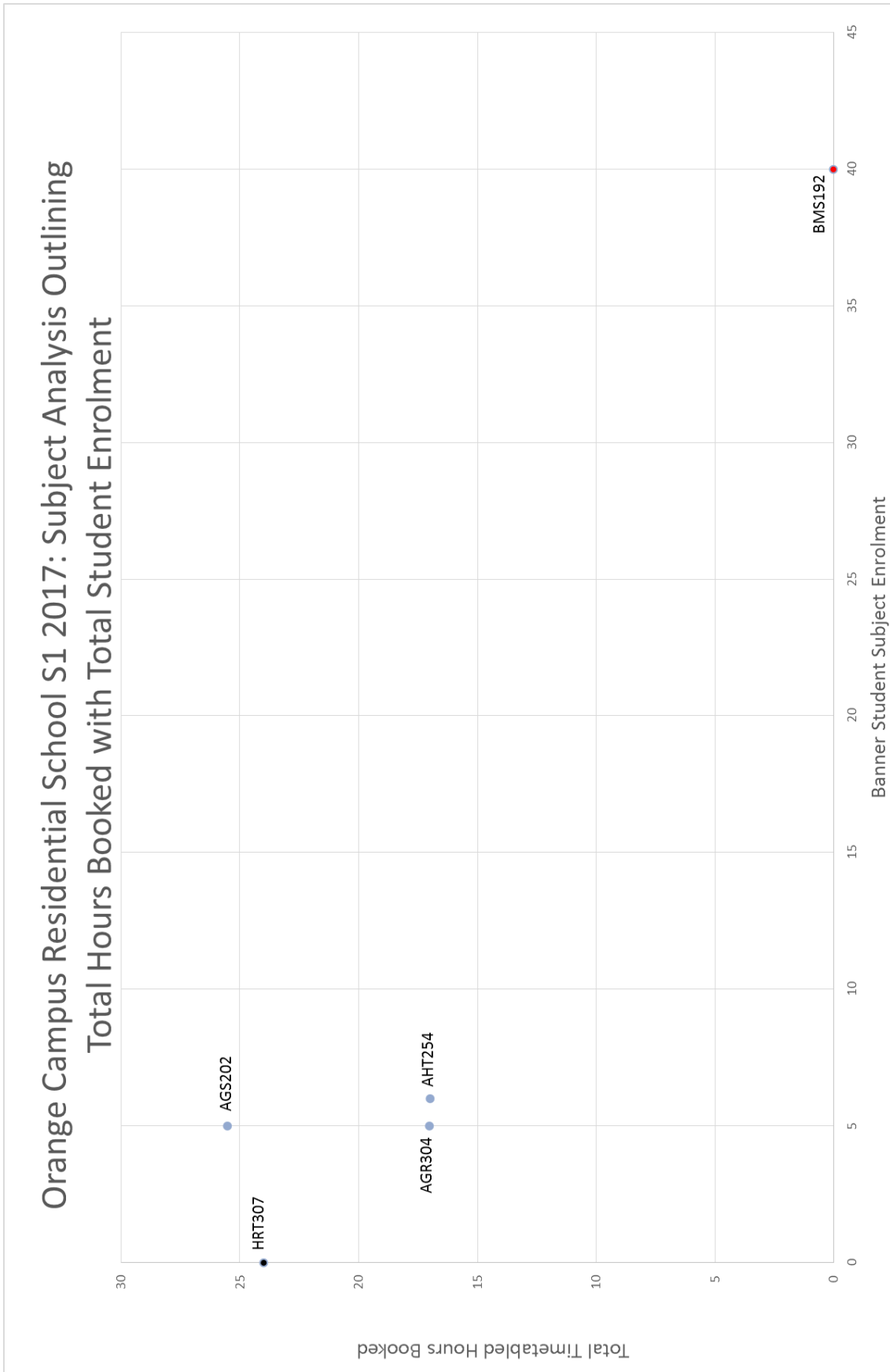


Figure 3 - Orange Campus 2017 Session 1 Residential School: Subject Analysis Outlining Total Hours Booked with Total Student Enrolment.

2.4 Wagga Wagga Campus

The Wagga Wagga Campus (Figure 4) graphs all subjects with Residential School bookings based on student subject enrolment and timetable booking data. A clear cluster of subjects appears with cohorts under fifty students and bookings of one hundred hours or less. Based on timetable data, the average duration of a residential school during this period was 2.77 days.

Table 6 lists those subjects for which there was an estimated overbooking ratio in excess of four times (4x). A number of subjects have booked multiple spaces at the same time, which causes the estimated overbooking ratio to be much higher than most other subjects.

The Wagga Wagga campus has the widest spread of subjects taught of any campus, with seventy one subjects in total. There are seventeen subjects graphed as 'Red Dot/No Halo' points with students enrolled but no hours booked in the timetable. Possible reasons may be that the subjects were taught without informing timetabling, the classes were field work subjects not requiring facilities at the campus or the classes were cancelled and bookings withdrawn. Twenty Five subjects of the remaining fifty four subjects taught (46%) fall within the accepted '2 or less' estimated overbooking ratio (ie: Blue Dot/No Halo).

Wagga Wagga Campus 2017 Session 1 Residential School: Analysis of Subjects						
Subject	School	Faculty	Banner Enrolment	Residential School Days	Total Hours Booked	Estimated Overbooking Ratio
HCS300/HCS509	SHSS	FOAE	102	4	486	15
NRS211	SNMIH	FOS	25	4	324	10
MHP105	SNMIH	FOS	33	5	348.5	9
BMS229	SBS	FOS	23	3	160	7
CHM108	SAWS	FOS	191	3	160	7
CHM104	SAWS	FOS	109	3	160	7
HCS200/HCS507	SHSS	FOAE	186	4	204.5	6
BMS129	SBS	FOS	113	3	152	6
ASC148	SAVS	FOS	41	1	50	6
ASC261/ASC461	SAVS	FOS	43	2	80	5
PSC415	SAWS	FOS	31	2	74	5
ASC106	SAVS	FOS	24	1	32	4
BMS308	SBS	FOS	45	3	96	4
ITC355	SOMC	FBJBS	11	1	32	4
PSC102	SAWS	FOS	93	3	96	4
PSC202	SAWS	FOS	12	3	96	4

Table 6 - Wagga Wagga Campus 2017 Session 1 Residential School: Analysis of subjects with an estimated overbooking ratio of 4x times what would be expected based on total booked hours.

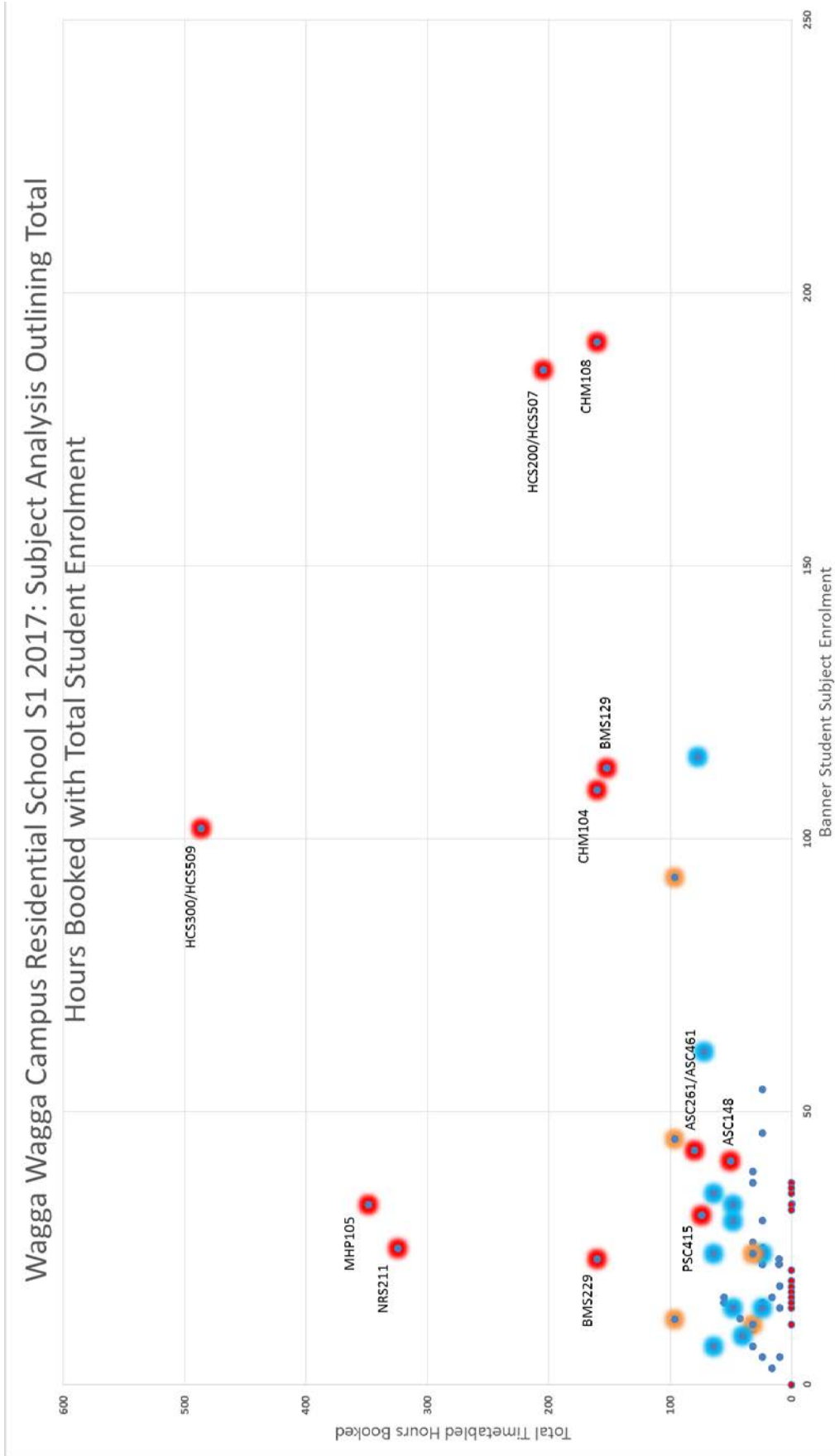


Figure 4 - Wagga Wagga Campus 2017 Session 1 Residential School: Subject Analysis Outlining Total Hours Booked with Total Student Enrolment

3.0 Key Observations

1. Anomalous over-booking of space was observed on all Campuses studied other than the Orange Campus. Proposed reasons for over-booking are:
 - a. Blanket booking of rooms. This is a reoccurring issue.
 - b. Rollover of timetable bookings based on historically large student cohorts.
 - c. Multiple rooms booked to be used simultaneously, often as blanket bookings.
 - d. Erroneous bookings in the Timetable with no room attached.
2. Some extreme examples of overbooking of spaces exists such as:
 - a. EHR519 and EHR520 with enrolments of 101 and 84 with bookings of 144 hours and 153 hours of teaching respectively over 1 day each at the Bathurst campus
 - b. HCS300/CS509 with an enrolment of 102 students which was booked for 486 hours of teaching over 4 days at the Wagga Wagga campus
 - c. NRS211 with an enrolment of 25 students which was booked for 324 hours of teaching over 4 days at the Wagga Wagga campus
 - d. PSY437 with an enrolment of 39 students which was booked for 80.0 hours of teaching over 1 day at the Bathurst campus.
3. Other booking anomalies were present relating to spaces booked with no enrolments and enrolled subjects with no spaces booked.
4. The processes facilitating the scheduling of Residential schools appears to be deregulated with minimal 'common' procedures across Faculties, Schools and Campuses. Additionally, the process by which timetabling are informed of residential school needs appears to be different between Faculties and Schools.
5. A more consistent approach to the timetabling of Residential Schools will remove a significant administrative issue that precedes all Residential Schools – that being the scramble to allocate appropriate space for learning and teaching. It is now understood that if a more formal, rigorous approach to mapping learning needs and space is undertaken, there will be significant savings in staff resources, physical assets, operational costs and a Residential School that focuses on a positive experience for all involved.

4.0 Appendix

4.1 Residential School Subject Data

Subject Code	Subject	School	Faculty	Campus	Enrolment	Total Hours Booked	Duration	Ratio
ACC515	Accounting & Finance	SAF	FBJBS	Wagga Wagga	18	10.0	1	1
ACC544	Decision Support Tools	SAF	FBJBS	Wagga Wagga	22	10.5	2	1
ACC566	Acc Systems and Processes	SAF	FBJBS	Wagga Wagga	14	10.0	1	1
ACC567	Financial Accounting 2	SAF	FBJBS	Wagga Wagga	5	10.0	1	1
AGR220	Extension	SAVS	FOS	Wagga Wagga	24	24.0	1	3
AGR304	Agricultural Ecology	SAWS	FOS	Orange	5	17.0	1	2
AGR520	Extension Post Graduate	SAWS	FOS	Wagga Wagga	0	0.0	1	0
AGS202	Applied Ecology	SAWS	FOS	Orange	5	25.5	2	2
AHT254	Organic Agriculture and Horticulture	SAWS	FOS	Orange	6	17.0	1	2
ASC106	Equine Industry	SAVS	FOS	Wagga Wagga	24	32.0	1	4
ASC111	Comparative Animal Anatomy and Physiology	SAVS	FOS	Wagga Wagga	14	48.0	2	3
ASC148	Introduction to Equine Science	SAVS	FOS	Wagga Wagga	41	50.0	1	6
ASC202	Equine Locomotion	SAVS	FOS	Wagga Wagga	14	24.0	1	3
ASC261/ASC461	Animal Reproduction	SAVS	FOS	Wagga Wagga	43	80.0	2	5
ASC350	Animal Health	SAVS	FOS	Wagga Wagga	37	32.0	2	2
ASC412	Equine Nutrition	SAVS	FOS	Wagga Wagga	16	16.0	1	2
ASC450	Animal Health	SAVS	FOS	Wagga Wagga	11	32.0	2	2
ASC461	Animal Reproduction	SAVS	FOS	Wagga Wagga	0	0.0	2	0
ASC512	Equine Nutrition	SAVS	FOS	Wagga Wagga	3	16.0	1	2
BCM210	Foundations and Techniques in Biochemistry	SBS	FOS	Wagga Wagga	115	7.0	3	3
BCM302	Food and Beverage Biotechnology	SAWS	FOS	Wagga Wagga	25	24.0	2	2
BIO100	Concepts of Biology	SAWS	FOS	Wagga Wagga	61	72.0	3	3
BIO203	Animal Diversity	SES	FOS	Albury- Wodonga	37	64.0	2	4
BIO326	Vegetation and Disturbance Management	SES	FOS	Albury- Wodonga	18	48.0	3	2
BIO401/BIO323	River and Floodplain Ecology	SES	FOS	Albury- Wodonga	33	48.0	3	2
BIO433	Ornithological Methods	SES	FOS	Albury- Wodonga	10	32.0	3	1
BIO489	Zoo Curatorship	SAVS	FOS	Wagga Wagga	19	0.0	2	0
BMS129	Physiological Sciences	SBS	FOS	Wagga Wagga	113	152.0	3	6
BMS161	Health and the Human Body - Cells, Immunity, & Musculoskeletal	SCH	FOS	Albury- Wodonga	25	80.0	4	3

Subject Code	Subject	School	Faculty	Campus	Enrolment	Total Hours Booked	Duration	Ratio
BMS171	Introduction to Functional Human Anatomy	SCH	FOS	Albury-Wodonga	27	120.0	4	4
BMS191	Human Bioscience 1	SBS	FOS	Bathurst	61	136.0	3	6
BMS192	Human Bioscience 2	SBS	FOS	Orange	40	0.0	2	0
BMS215	Microbial Biotechnology	SBS	FOS	Wagga Wagga	15	24.0	2	2
BMS216	Introductory Haematology	SBS	FOS	Wagga Wagga	35	64.0	3	3
BMS229	Histopathology 1	SBS	FOS	Wagga Wagga	23	160.0	3	7
BMS238	Foundations of Biotechnology	SBS	FOS	Wagga Wagga	5	24.0	2	2
BMS271	Functional Anatomy of the Head, Neck, Pectoral Girdle and Upper Limb	SCH	FOS	Albury-Wodonga	16	120.0	4	4
BMS302	Clinical Biochemistry 2	SCH	FOS	Wagga Wagga	30	48.0	2	3
BMS308	Immunology	SCH	FOS	Wagga Wagga	45	96.0	3	4
BMS315	Medical Microbiology	SCH	FOS	Wagga Wagga	46	24.0	2	2
CHM104	Chemistry 1A	SAVS	FOS	Wagga Wagga	109	160.0	3	7
CHM108	Chemical Fundamentals	SAVS	FOS	Wagga Wagga	191	160.0	3	7
CHM215	Inorganic Chemistry	SAVS	FOS	Wagga Wagga	7	64.0	3	3
CHM216	Organic Chemistry	SAVS	FOS	Wagga Wagga	7	32.0	3	1
CHM323	Instrumental Analysis 1	SAVS	FOS	Wagga Wagga	10	32.0	3	1
CLS412	Introduction To Internship	SBS	FOS	Bathurst	28	273.0	4	9
ECO511	Economics for Business	SAF	FBJS	Wagga Wagga	23	10.5	2	1
EHR119	Anatomy & Physiology 1	SESPH	FOS	Bathurst	40	32.0	1	4
EHR202	Human Exercise Physiology	SESPH	FOS	Bathurst	18	28.0	3	1
EHR211	Functional Anatomy & Human Performance	SESPH	FOS	Bathurst	20	24.0	3	1
EHR330	Neuroscience of Motor Behaviour	SESPH	FOS	Bathurst	11	14.0	1	2
EHR519	Exercise Prescription for Cardiopulmonary Conditions	SESPH	FOS	Bathurst	101	144.0	1	18
EHR520	Pathomechanics & Exercise Prescription	SESPH	FOS	Bathurst	84	153.0	1	19
ENM101	People and the Environment	SES	FOS	Albury-Wodonga	30	24.0	2	2
EPI104	Timber Technology: Workshop & Design	SOE	FOAE	Wagga Wagga	33	0.0	3	0
EPI306	Metal Technology: Workshop & Pedagogy	SOE	FOAE	Wagga Wagga	35	0.0	3	0
FDS202	Food Microbiology	SBS	FOS	Wagga Wagga	24	64.0	3	3
FDS308	Food Technology	SBS	FOS	Wagga Wagga	22	24.0	2	2
HCS200/HCS507	Social Work Theory and Practice 1 - Foundations of Practice	SHSS	FOAE	Wagga Wagga	186	204.5	4	6
HCS300/HCS509	Social Work Theory and Practice 3 - Mezzo level Practice	SHSS	FOAE	Wagga Wagga	102	486.0	4	15
HCS507	Social Work Theory and Practice 1 - Foundations of Practice	SHSS	FOAE	Wagga Wagga	0	0.0	4	0
HCS509	Social Work Theory and Practice 3 - Mezzo level Practice	SHSS	FOAE	Wagga Wagga	0	0.0	4	0

Subject Code	Subject	School	Faculty	Campus	Enrolment	Total Hours Booked	Duration	Ratio
HRT301	Plant Propagation	SAVS	FOS	Wagga Wagga	9	40.0	2	3
HRT307	Flower Crop Management	SAVS	FOS	Orange	0	24.0	2	2
IKC301	Wiradjuri Language	SIAS	FOAE	Wagga Wagga	33	80.0	5	2
ITC355	Network Design	SCM	FBJBS	Wagga Wagga	11	32.0	1	4
LAW112	Introduction to the Australian Legal System	CLJ	FBJBS	Bathurst	62	18.0	2	1
LAW113	Criminal Law	CLJ	FBJBS	Bathurst	70	16.0	1	2
LAW212	Evidence Law	CLJ	FBJBS	Bathurst	32	16.0	1	2
LAW216	Property Law	CLJ	FBJBS	Bathurst	59	32.0	1	4
LAW217	Civil Procedure	CLJ	FBJBS	Bathurst	18	16.0	1	2
LAW218	Equity and Trusts	CLJ	FBJBS	Bathurst	16	12.0	1	2
LAW219	Company Law	CLJ	FBJBS	Bathurst	15	12.0	1	2
LAW505	Taxation 1	SAF	FBJBS	Wagga Wagga	22	10.5	2	1
LAW519	Negotiation Skills	SAF	FBJBS	Wagga Wagga	18	0.0	1	0
MHP105	Introduction to Primary Health Care: Mental Health	SNMIH	FOS	Wagga Wagga	33	348.5	5	9
MHP109	The Body, Illness and Health	SNMIH	FOS	Wagga Wagga	36	0.0	5	0
MHP111	Clinical 1	SNMIH	FOS	Wagga Wagga	37	0.0	5	0
MHP112	History, Social and Emotional Wellbeing	SNMIH	FOS	Wagga Wagga	32	0.0	5	0
MHP211	Clinical 2	SNMIH	FOS	Wagga Wagga	15	56.0	5	1
MHP212	Healing Our Spirit: Grief, Loss and Yarning	SNMIH	FOS	Wagga Wagga	21	0.0	5	0
MHP213	Crisis and Assessment Management	SNMIH	FOS	Wagga Wagga	17	0.0	5	0
MHP214	Primary Health Care: Community Development	SNMIH	FOS	Wagga Wagga	11	0.0	5	0
MHP301	Research in Mental Health	SNMIH	FOS	Wagga Wagga	16	56.0	5	1
MHP302	Professional Issues in Aboriginal and Torres Strait Islander Mental Health	SNMIH	FOS	Wagga Wagga	16	0.0	5	0
MHP311	Clinical 3	SNMIH	FOS	Wagga Wagga	14	0.0	5	0
MHP312	Sexual Assault, Family Violence and Associated Trauma	SNMIH	FOS	Wagga Wagga	15	0.0	5	0
NRS112	Essential Nursing Care: Valuing Health	SNMIH	FOS	Bathurst	37	108.0	3	5
NRS211	Essential Nursing Care: Acute Care	SNMIH	FOS	Bathurst	227	216.0	3	9
NRS211	Essential Nursing Care: Acute Care	SNMIH	FOS	Wagga Wagga	25	324.0	4	10
PHY101	Mechanics and Thermal Physics	SDHS	FOS	Wagga Wagga	54	24.0	2	2
PHY216	Modern Physics	SDHS	FOS	Wagga Wagga	30	24.0	2	2
PHY541	Ultrasound Physics & Instrumentation	SDHS	FOS	Wagga Wagga	12	42.5	4	1
PKM363	Shoreline Recreation Management	SES	FOS	Albury- Wodonga	14	0.0	2	0
PKM397	Heritage Site Management	SES	FOS	Albury- Wodonga	7	0.0	4	0

Subject Code	Subject	School	Faculty	Campus	Enrolment	Total Hours Booked	Duration	Ratio
PSC102	Botany	SAWS	FOS	Wagga Wagga	93	96.0	3	4
PSC202	Crop And Pasture Science	SAWS	FOS	Wagga Wagga	12	96.0	3	4
PSC215	Plant Physiology	SAWS	FOS	Wagga Wagga	26	32.0	2	2
PSC415	Soil Management	SAWS	FOS	Wagga Wagga	31	74.0	2	5
PSY301	Advanced Research Methods and Statistics in Psychology	SP	FBJBS	Bathurst	60	99.0	2	6
PSY421	Clinical Psychology - Treatment	SP	FBJBS	Wagga Wagga	39	32.0	2	2
PSY423	Industrial / Organisational Psychology	SP	FBJBS	Wagga Wagga	33	48.0	2	3
PSY424	Psychology Honours Dissertation	SP	FBJBS	Bathurst	54	72.0	2	5
PSY424	Psychology Honours Dissertation	SP	FBJBS	Wagga Wagga	14	48.0	2	3
PSY427	Issues in Health Psychology	SP	FBJBS	Wagga Wagga	22	24.0	2	2
PSY437	Counselling Theory and Practice	SP	FBJBS	Bathurst	39	80.0	1	10
PSY461	Advanced Research Methods and Statistics in Psychology	SP	FBJBS	Bathurst	45	81.0	2	5
PSY500	Psychology Masters Dissertation	SP	FBJBS	Bathurst	6	39.0	3	2
PSY527	The Clinical Psychologist in Practice	SP	FBJBS	Bathurst	20	39.0	2	2
PSY530	Masters Dissertation	SP	FBJBS	Bathurst	46	46.0	3	2
PSY537	Child Assessment	SP	FBJBS	Bathurst	25	39.0	2	2
PSY538	Child Interventions 1	SP	FBJBS	Bathurst	25	39.0	2	2
PSY541	Clinical Neuropsychology	SP	FBJBS	Bathurst	20	19.5	2	1
PSY543	Clinical Health Psychology	SP	FBJBS	Bathurst	9	39.0	2	2
SPH512/SPH513	Assessment & analysis of sensory-motor skills / language & cognition in speech pathology	SCH	FOS	Albury- Wodonga	56	149.5	5	4