



Charles Sturt
University

Wangaratta Regional Study Centre

2020

Inspirations

Events and Programs

Wangaratta Regional Study Centre

Table of contents



Welcome.....	p3
School Support.....	p4-5
Schedule of Events.....	p6
Student Activities.....	p7 -8
Teacher Professional Development.....	p9
StudyLink Orientation and Support.....	p10
Facility Use.....	p11
Teaching Wet Lab.....	p12
Digital Resource Library.....	p13 - 15
Our Partnerships.....	p16-18

Welcome to 2020

The Wangaratta Regional Study Centre (WRSC) is excited to offer a broad range of events in 2020 for schools and community groups which aim to

- Build aspirations for life-long learning
- Equip young people with the development of knowledge, skills and capabilities that will help them make informed decisions about life post schooling
- Support schools and their communities
- Create pathways to higher education
- Develop industry and community capacity.

We would love you to help us create and share new knowledge through our state-of-the-art facilities including a full science laboratory, a teaching kitchen, seminar and conference rooms, common learning and study spaces, and staff offices. As part of what we offer to the region, we hope to engage with our young people across the North East through our School Outreach programs and provision of digital resources.

This booklet provides a small insight into a variety of events and offerings that may suit your school and broader community; you are welcome to join us at any or all! If you would like to see something that is not scheduled, please do not hesitate to contact us and let us know how we can support you.

We also encourage you to stay up to date with our happenings by liking our Facebook page '[Wangaratta Regional Study Centre](#)'

We look forward to continuing to strengthen the region through continued work raising aspirations across the North East.

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School Support

At WRSC, we offer our partner schools various kinds of support according to their needs – In House Support, Access to Resources, Access to Charles Sturt Alumni, Academic Encouragement Awards, Activities and Events, and targeted Teacher Professional Development and Careers Network.

In House Support

Schools are busy and vibrant places of learning, not just for the students. Charles Sturt at WRSC is available to support your school through attendance at any of your scheduled events for the year:

- Parent Information Events
- Careers Evenings
- Parent Teacher Interviews
- Support with Subject Selection
- Career and Work Education support and advice

Academic Encouragement Awards

Each year, Charles Sturt encourages schools to nominate students for our Academic Encouragement Awards. These Awards are aimed at increasing the aspirations and capacity of students who may:

- Have experienced disadvantage yet have shown the capacity and ability in their studies and behaviour to consider tertiary education
- Be first in family to consider a tertiary education
- Need encouragement or confidence building to believe in their own capacity to aspire to, or participate in, tertiary education
- Demonstrate distance travelled in their academic achievement despite difficult circumstances

We would be keen to attend any Award Presentation or Speech Nights as required by schools.

Access to Charles Sturt Alumni



We have an extensive and vibrant Alumni, with many individuals who are willing to share their time and expertise through mentoring opportunities and the provision of career and pathway advice.

If you would like a Charles Sturt Alumni to visit your school, to attend an event, give a guest lecture or provide support through your programs, please let us know.

Access to Resources

We have an extensive range of Digital Resources available in conjunction with the Digital Technologies Advisory Committee (DTAC) which can be found later in this booklet.



Career Playing Cards

‘Career Playing Cards’ is a resource which enables students from Year Seven upwards to think about jobs as part of a cluster of work that demands similar skills set. These are readily available from WRSC, along with Job Cluster Posters to complement your Career and Work Education curriculum.

A Teacher Professional Development Day is planned for 2020.

2020 Ongoing Programs

Girls in STEM

Throughout the year, Charles Sturt University holds a series of events aimed to inspire, encourage and connect young women in STEM. These activities provide mentoring opportunities for primary and secondary students with tertiary students, alumni and local industry. Dates will be confirmed soon.

Nungara

Every year, WRSC works with Wangaratta High School to develop Nungara for students who identify as Aboriginal or Torres Strait Islander. Based on aspiration building, culture and career awareness, students are introduced to a variety of programs and local people. 2019 saw a visit to the Aboriginal Health Service, Burraja Cultural Centre and a guided walk around the Albury-Wodonga Campus.

Meet the Scientists

‘Meet The Scientists’ is a series of small 45 minute workshops from a range of industry professionals who have studied in the field of science that can work in with a school’s timetable. The aim of these sessions is to inspire students about the diversity of careers and be inspired about where the study and application of science can take them. Students will have an opportunity to learn about what different scientists do on a day-to-day basis and how they got into their chosen field of work. If there is a specific field of science you would like as your focus, please let us know and we can organise a specialist to come to your school.

2020 Schedule of Events

We have many opportunities and events in which your students can be involved, all of which have been designed to raise their aspirations and knowledge of future careers. There will be more events scheduled as the year progresses.

Semester One	Location	Dates	Times	Ages
CSU Orientation & Study Skills Afternoon	WRSC	March 5	3.30 –6.00pm	All Ages
CSU Explore Day : On Campus Activities	Albury-Wodonga	March 24	All day	Yrs 11-12
Wangaratta Parent Information Session	WRSC	April 1	Evening	Parents
Regional Hands on Trades Day	Winton	April 23	All day	Yrs 9 - 12
Regional Careers Day Out	Shepparton	May 5	All day	Yrs 10 - 12
Maths Association of Victoria (MAV) Regional Conference	WRSC	May 8	All day	Teachers
Regional Food and Fibre Day	Dookie	May 22	All day	Yrs 9 - 12
Wangaratta Health Forum	WRSC	June 5	All day	Yrs 10 - 12
On-campus Science Day	WRSC	Late June	All day	Yrs 8- 9
Regional Tertiary Information Day	WRSC	June 19	All day	Yrs 10 -12

Semester Two	Location	Dates	Times	Ages
Robotics and Coding Program	WRSC	July holidays	All day	Yrs 5 - 6
Wangaratta Parent Information Session	WRSC	August 9	Evening	Parents
CSU Open Day : On Campus Activities	Albury-Wodonga	August 16	All Day	Yrs 11-12
Science Teachers Assoc Vic (STAV) Regional Conference	WRSC	September 11	All day	Teachers
On-campus Science Day	WRSC	October	All day	Yrs 8-9

Student Activities

Changing World of Work



Career Planning is a dynamic and constantly evolving process, open to frequent adjustments and changes in direction as young people move through life. The Foundation for Young Australians' (FYA) New Work

Order has identified significant implications for young Australians as jobs become increasingly global, automated and flexible, with the average 15 year old facing a predicted 17 jobs over 5 different careers.

Discussions that enable young people to navigate the future of work through identifying skills and capabilities to respond to both theirs, and society's changing and diverse needs, are crucial to ensuring they are suitably empowered with the skills mindset and confidence they need.

Charles Sturt partners with schools and their communities to:

- Introduce the idea of a career and lifelong learning
- Raise awareness of post school options and different pathways
- Lift aspiration for university study, regardless of which university they choose to attend
- Increase students' educational attainment whilst at school
- Engage with parents to help them support their children in their post-secondary choices

Career Aspiration Workshops at your school.

Working with a Strengths Based approach, workshops are designed to encourage students to engage in self-reflection, career exploration and decision making to help:

- Identify their skills, interests and capabilities
- Find their career passion and future possibilities and opportunities
- Understand the labour trends in today's world
- Consider the options and next steps available to them and their situation
- Set realistic career goals and explore the range of educational and career options available

On Campus Events

Science Days at Wangaratta Regional Study Centre



Charles Sturt University acknowledges the continued need to provide hands on STEM related activities and a chance for students to connect with leaders in industry. In Term Two and Term Four, we will be running a day of practical STEM careers workshops for Year Eight and Nine students designed to showcase the breadth of STEM careers available and inspire through hands-on learning.

Dates and Programs will be confirmed shortly.

Digital Workshops



In collaboration with the Digital Technology Advisory Committee (DTAC), Charles Sturt University offers two day workshops for students in Year Five and Six in the January and July school holidays. Students will design, build, code and drive robots, learn about building websites and creating apps and games as well as explore technology in an informal, creative and social environment.

Health Careers Forum: June 5

The Health Careers Forum is an annual event which brings together many facets of the industry in workshops that showcase and explain health careers both locally and further afield.

Regional Tertiary Information Day: June 19

An Expo of Tertiary Institutions providing valuable information about post schooling pathways.

Off Campus Events

Winton Hands-on Trades and Pathways Careers Expo: April 23

An interactive expo with displays showcasing the various trade careers on offer in the region.

Food and Fibre Careers Day, Dookie: May 22

Hands-on workshops are held throughout the day at Dookie, showcasing and explaining food and fibre careers.

Teacher Professional Development

The Mathematical Association of Victoria (MAV)

Regional Conference: Friday May 8



The Mathematical Association of Victoria (MAV), in collaboration with partner schools and Charles Sturt University, will present its first Regional Conference in May

2020. Open to all teachers involved in teaching STEM subjects, this conference will explore evidence based approaches in curriculum, pedagogy, skills and context to ensure student engagement and growth mindsets.

With a broad and inspiring program, this Regional Conference enables teachers, academics, policy makers, curriculum experts and resource developers to come together to share their collective expertise, experiences and ideas. Registrations will open in Term 1 2020.

The Science Teachers' Association of Victoria (STAV)

Regional Conference: Friday September 11



The Science Teachers' Association of Victoria (STAV) in collaboration with partner schools and Charles Sturt University, will be conducting a regional conference in Wangaratta on Friday 11 September 2020. This conference will provide schools across the region with access to leaders in the fields of science and STEM education. Representing the collective voice of all teachers of science in Victoria, STAV is preparing an engaging and stimulating program, suitable for any person involved or interested in science and STEM education;

this includes preservice teachers, laboratory technicians, primary, secondary and tertiary educators. Registrations will open mid-year and STAV individual members will have access to discounted conference rates. For more information contact The Science Teachers' Association of Victoria at (03) 9385 3999 or admin@stav.vic.edu.au

Careers Network

Supported by Charles Sturt University, a local Careers Network has been established for staff involved in working with young people to realise their career aspirations and assist with their life transitions. There is opportunity for teachers to participate in the Australian Centre for Career Education in 2020 and further Professional Development as the year progresses. Our Career Advisers Website full of resources can be found here: <https://study.csu.edu.au/career-advisers>

StudyLink

At WRSC, we offer you three kinds of study support: Orientation, Study Support and StudyLink. We also have quiet study spaces with Wifi, computers and printing for all our CSU students to use.



Orientation

At the start of every semester we hold an Orientation and Study Skills Session, for commencing and continuing Charles Sturt students, whether studying online, mixed mode or face to face. Our first session will be held at WRSC on Thursday March 5 with [registration here](#).

Study Support Sessions

In Semester 1, we are trialling a new weekly drop-in Study Support Session. Some weeks these will be general, answering your queries and working out who you need to get in touch with. Other weeks we will focus on introducing you to a range of StudyLink courses available for free.

Free Short Online Subjects

Study Link at Charles Sturt University offers short, online subjects that prepare students for success in further learning, wherever they choose to study. Whether they are just considering University, studying through other institutions, or heading straight into work, students can take a Study Link subject to up-skill for work, or even just to build and consolidate their own learning across Maths, Science, English and Humanities. Study Link is ideal if someone:

- has had a break from study
- is about to start a maths or science-based degree and needs to refresh their knowledge
- wants to brush up on grammar
- needs some pointers on academic writing and referencing
- is new to online study
- wants a smooth and easy transition to University

At a glance

Study Link provides a choice of up to 26 short subjects which can all boost university studies by giving you academic skills you will need and a chance to fill any 'knowledge gaps'.

For further exploration of this course please visit the [link here](#) or at: <https://www.csu.edu.au/studylink>. Please do not hesitate to contact us if you have any questions about this course and opportunities for further learning.

Registration for these sessions can be found at our [Eventbrite page here](#).

Facility Use



Students and their studies

One of our main purposes here at WRSC is to support Charles Sturt students in their studies through the provision of state of the art facilities including quiet study spaces, equipped with wifi, computers and a printing facility. The impact of this on your studies can be profound:

"I had booked in to do the course by distance education but I had no idea how I would do it. I couldn't believe it when I first came here ... it's an incredible learning environment. I couldn't have achieved what I have without the CSU Study Centre" Andy, Masters of Education.

At WRSC we also act as a regional exam centre, welcoming students from many universities.

The facilities we have available

With state of the art and recently upgraded facilities, the Wangaratta Regional Study Centre offers individuals, community and organisations a location that:

- Supports teaching, research and the development of knowledge
- Builds industry and community partnership development
- Enhances the delivery of services into this region
- Offers a high quality facility designed to support online delivery
- Has direct access to the CSU IT network with Interactive Video Teaching capability.

The facilities at the Wangaratta Regional Study Centre include:

- 2 x 40 person seminar rooms which can be joined to accommodate 80
- 40 student Science Laboratory
- Teaching kitchen with 3 phase power attached to seminar room space
- 20 person Information Technology/Computer Lab
- Access to a further 4 x 25 person classrooms
- Open plan student commons facilities with CSU student computers
- A variety of meeting and break out rooms to hold up to 12
- Video-conferencing facilities for 2 – 40
- Hot desks for visiting CSU staff and students.

Teaching Wet Lab



Charles Sturt aims to build aspirations and encourage young people to investigate and explore the world of Science, Technology, Engineering, Arts and Mathematics (STEAM). With a fully equipped, University Science Lab and Prep Rooms on campus, schools are offered the opportunity to create a science learning experience for students in our state-of-the-art facility.

Designed to support team-based work, our Teaching Lab is used to strengthen a student's practical understanding of scientific concepts through experiments that link in with the National Curriculum, and more specifically the Victorian Certificate of Education. We would love to have schools use this space to explore, engage with and discover the world of STEAM in a University Laboratory.

Facility Use

Teachers are encouraged to bring their classes on campus and use the Teaching Lab for experiments that they may not ordinarily be able to perform in their own labs. There is no charge for the use of the facility but there is a Staff Induction requirement in line with Charles Sturt University's Lab Induction Policy. Once completed, the facility can be booked and used at any time with students.

Equipment such as spectrophotometers, autoclaves, centrifuges, hot plate stirrers and Eppendorf pipettes can extend and complement the Science Curriculum.



Digital Resources Library

A STEM learning curriculum includes the connected areas of Science, Technology, Engineering and Mathematics, is based on real-life applications and encourages learners to think critically and flexibly in order to adapt to changing situations.



Please find below STEM related resources for use in schools and the community provided by DTAC and Charles Sturt

Resource	Number
Google Expeditions (Class Set)	30 x Goggles 1 x CSU GE iPad 1 x CSU GE Expedition Kit 1 x CSU iPad Lead 24 x iPods 16 x iPod Leads
Spheros	15 x Spheros
Sphero Bolts	15 x Sphero Bolts
Bloxels	6 x Bloxels
Telescopes	3 x Telescopes
VEX IQ Kits	8 x kits for Large events 2 x kits for schools
Osmo	5 x Osmos
Pocket Lab Voyager	10 x Pocket Lab Voyager
Vex Field	1 x Vex Field

Google Expeditions

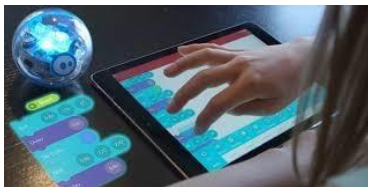
With Virtual and Augmented Reality, teachers are no longer limited by the space of the classroom.

VR lets you explore the world virtually while AR brings abstract concepts to life—allowing teachers to guide students through collections of 360° scenes and 3D objects, pointing out interesting sites and artefacts along the way.

- Minimal setup for maximum engagement.
- Expeditions explore history, science, the arts, and the natural world.
- Helps students visualize information in a new way, which can positively impact their ability to retain information.



Sphero



The Sphero Enabled Robot is perfect for educational fun with, introducing students to the world of robotic, coding and programming. It's powered by the Lightning Lab app which makes programming quick and easy, allowing you to get started and understand the basics in almost no time. You can use the app to collaborate with users around the world to enhance your own experience.

Sphero Bolt



Sphero BOLT's eye-catching, programmable 8x8 light matrix opens up an endless array of coding and gaming capabilities. Use advanced sensors to track speed, acceleration, and direction, or drive BOLT without having to aim your robot thanks to the compass. BOLT also features infrared communication, allowing your robot to "talk" with other BOLTs. Program BOLT with the Sphero Edu app from nearly any mobile or desktop device, discover awesome community-created activities, or just drive and play.

Osmo



Osmo makes hands-on learning games in which players use objects in the real world to interact with the digital world shown on their iPad. With a focus on problem solving, numeracy, and literacy, students learn abstract concepts by connecting them to objects and actions in the physical world. In addition to teaching traditional subject matter, Osmo games foster social-emotional skills like problem-solving, creativity and perseverance

Bloxels



Bloxels is a hands-on platform for students to build, collaborate, and tell stories through video game creation. Students can use coloured blocks to design their characters and settings to tell their own amazing stories! The game board is scanned using the free iPad app to make the creation come to life. This engaging classroom tool is transforming learning off the paper and putting it in the

hands of students. Imagine designing a scientific process, a historical location, or even a story about yourself. Bloxels has created lessons plans and activities for you. These easy to follow lessons help bring this amazing makerspace technology to your classroom in Science, History and Math.

VEX IQ Kit

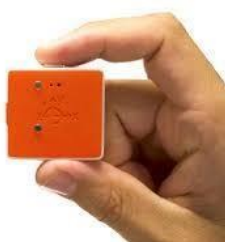


This VEX IQ Robotics Construction Kit comes with over 750 components which you can use to build your own robot so you can develop your STEM learning skills and have fun at the same time. You can find instructions for pre-set builds online, or you can create your own machine then program it using Modkit for VEX or Robotic VEX IQ Curriculum. There are over 750 pieces included with 4 motors, a colour sensor, bump switch, touch LED and controller.

Vex Field

The official VEX Robotics Competition Field is setup on a foam surface, with a sheet-metal and polycarbonate perimeter frame. Inside this perimeter, game-specific elements can be added.

Pocket Lab Voyager



Pocket Lab Voyager is an all-in-one science lab that can measure motion, light, magnetic fields, and weather. The Pocket Voyagers are perfect for data collection in the classroom. Units are user friendly, and require little training to become skilled in their use. Their connectivity to the free app is quick and simple, and the parameters of what is being measured is easily controlled and changed. The units have a multitude of possible

applications, both in and out of the classroom. From simple acceleration experiments, to modelling head on collisions the Pocket Voyagers are the perfect hand held sensor.



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Our Partnerships

One of our major goals at WRSC is to build the success of this region, and Charles Sturt is proud to be involved with a broad range of community partnerships working across the North East of Victoria and beyond. Although our partnerships are too numerous to all mention here, some examples are:

NeTracks Llen



The NE Tracks Local Learning and Employment Network (LLEN) supports young people 10-19 years of age and works with schools and other organisations to achieve higher rates of school retention and participation in education, training

and employment. Our LLEN works in the Local Government Areas (LGAs) of Benalla, Wangaratta and Mansfield.

Digital Technologies Advisory Committee (DTAC)



In Northern Victoria we know that access, ability and affordability all present barriers to digital inclusion, as documented in the current [Australian Digital Inclusion Index Report](#). In response to this, WRSC and Charles Sturt have been a founding member of the organisation now known as DTAC, providing events, advice and resources that give people in our region better access to information and communications technology and the resulting social and economic benefits.

Ovens Murray Digital Futures Coordination Group



In a similar vein WRSC and Charles Sturt have also been founding members of what is now the Ovens Murray Digital Futures Coordination Group established by Regional Development Victoria to coordinate the roll out

of the recently developed Digital Plan for the region.

GoTafe



Wangaratta Regional Study Centre was established by both GOTAFE and Charles Sturt, and the partnership is still going strong. We have worked together to allow Charles Sturt to offer both credit and articulated pathways for TAFE students to access ongoing education in a variety of courses,

something very important in a regional area whose workforce need professional development.

At WRSC the study spaces and computer labs accommodate both Charles Sturt and GOTAFE students, allowing you to access information in the one virtual environment.

Startup- ShakeUp



WRSC and Charles Sturt works with Startup Shakeup to support North East Victorian innovators and entrepreneurs with their start-up ideas, connecting them and building their networks, and opening the door to a variety of learning, development, mentoring and investment opportunities.

This will ultimately help our region respond to fast paced change and disruption by developing and retaining skills to take advantage of new technologies and ways of working.

Ovens and Murray Agriculture Biz Alliance (OMABA)



Agriculture, food and fibre are a significant industry sector in this region, we have many examples of best practice, and in this our diversity, land and water are some of our biggest assets. However our diversity could also be our weakness and so WRSC and Charles Sturt have been slowly working with a group of likeminded organisations to build a regional entity now known as OMABA, an organisation of strong coordinated partnerships that collaborate to achieve thriving, innovative and resilient agribusinesses

across North East Victoria.

In 2019 we co-hosted the Victorian Agribusiness Summit, showcasing a set of inspirational, innovative, grounded speakers from across Australia.

Our Research Partnerships



**Charles Sturt
University**

As a University, Charles Sturt is of course heavily involved in research, particularly in the regions, and at WRSC our aim is to work out how to support research in ways most useful to regional needs.

Some examples of how this works in pure research terms are included below, and we have also facilitated partnerships that see Charles Sturt academics undertaking applied research in areas such as workforce needs for regional bodies such as Regional Development Victoria.

WRSC Honours Research Scholarships

Charles Sturt students regularly work on Honours research projects in this region, and to facilitate their success we regularly award small research scholarships to facilitate their work, but also to encourage the presentation of their findings to a regional audience when they have finished. Thus the research becomes doubly valuable, training up a future employee but also sharing their findings.

Indigo Liveability Index



Population ageing is one of the most important social and policy issues we are facing today. In Australia, the population has been on an ageing trajectory for over the past century and

population ageing is well advanced. Adapting now to population ageing is crucial for rural communities to remain thriving places for individuals and families to live, learn, work and play.

“In the Ovens Murray region right now, people aged 60 and over account for an extraordinary 32% of our community. This means there are more people over 60 living, working, learning and contributing to our community than any other group in the population”

Sandy Austin, Director East Division Health, DHHS, August 2017

The Indigo Liveability Index is a project building on past work that brings together the Institute of Land Water and Society, Indigo Shire, North East Catchment Management Authority and Department of Environment, Water, Land and Planning to develop a liveability index for Rutherglen and Chiltern, specifically for the older demographic. This will then form the basis for a further project developing an online Regional Liveability Atlas, with the ability to explore the components of the liveability index at a fine spatial scale across multiple cohorts.

Viticulture and Oenology : Research to Practise



The National Wine and Grape Industry Centre ([NWGIC](#)) is based at Charles Sturt in Wagga Wagga, and involved in conducting a wide variety of research.

After consultation with four of the regional wine associations in North East Victoria, NWGIC bought down a team of researchers presenting to a packed room on various relevant topics such as grapevine trunk disease

management; potential biocontrol agents for grapevine phylloxera; benchmarking using both sensory appraisal and chemical analysis; and winemaking interventions for control of spoilage.





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