Year 11 Student and Parent Meeting

June 2016
RESEARCH PROJECT 2016

Research your own adventure

For students completing year 11 (Stage 1 SACE) in 2016 and Year 12 (Stage 2 SACE) in 2017
Research project needs to be completed by the end of the year.

There are 2 main phases –

Phase 1 - Term 3 – Undertaking the Research (Folio 10 pages). This needs to be completed **by the end of term 3**.

Phase 2 - Term 4 – Completing the presentation of your findings (Outcome) and reviewing your research processes (Evaluation).

EVERYTHING must be finished by the end of week 4 in Term 4.
So where to start?

This is the Australian Science and Mathematics School and as a student of this school it is expected that you Research Project is based around a STEM topic:

Science
Technology
Engineering
Mathematics
The Research Program has been endorsed by the SACE Board as a valued part of completing the SACE. The results are a part of your ATAR.

Today's students will experience more information in their lifetime than any other humans in the history of mankind.

They need to be able to skilfully select valid, reliable information, analyse it, utilise it to develop understanding and present information to others. These skills are used throughout university and in most careers. This is a critically important subject that develops vital skills.
In order to complete SACE and get an ATAR students need to achieve an overall C- or better in Research Project.

This subject counts towards the ATAR, we expect all students to aim to achieve the highest result they are capable of in order to maximise their ATAR.
What does finishing RP mean?

There are 3 main assessment tasks:

1. Your Research Folio (30% of grade)
2. Your Outcome (40% of grade)
3. Your Evaluation (30% of grade)
The biggest tip for success is to not leave things to the last minute. The highest achieving Research Projects are done by students who get stuck in and make regular contributions to their research and document their progress in their folio...hard work pays off!

**TERM 3**
Folio checkpoint 1 - Week 1

Panel presentations – *Thursday 4th August*

Folio checkpoint 2 & 3 - Week 4 & Week 8

Completed folio 10 pages and Outcome draft due - *last lesson week 10*

**TERM 4**

Outcome - *due last lesson in week 1*

Evaluation draft – *no later than end of week 2*

Evaluation – *end of week 4*
Getting a good grade for Research Project sets up year 12.

Universities view Research Project as a critical measure of whether a student is ready for tertiary study.

RP allows you to develop skills are used in all subjects....even Year 12 Maths!

This subject is about you doing things for yourself....not relying on others for motivation.
Semester 2 Arrangements

Recap on Semester 1
Semester 2
Timetable and Class Structure
ISF Week Arrangements
Maths Choices for Semester 2
Central Studies – recap on Semester 1

- Learning Studies
- Concept and Create
- Biodiversity
- Maths and Abstract Thinking
Topic Test (Statistics & Probability)

- **A**: 60 (2015), 50 (2016)
- **B**: 40 (2015), 45 (2016)
- **C**: 30 (2015), 25 (2016)
- **D**: 10 (2015), 5 (2016)
- **E**: 0 (2015), 0 (2016)
Timetable

• A new semester, a new timetable
  – 5 Central Studies:
    • Maths and Abstract Thinking (300 minutes)
    • Earth and Cosmos (400 minutes)
    • Theory and Perception (400 minutes)
    • Student Inquiry Project (200 minutes)
    • Learning Studies Group (200 minutes)
Class Structure

• Newly randomised classes across Central Studies with direct intervention to balance year levels and gender.

• All central studies creating specific class structures to build on inclusive pedagogies.
  – Single sex classes for girls and boys in Maths and Earth and Cosmos; other classes with 50:50 gender split or single sex (boys)

• All classes focussing on developing Self Directed Learners and intervention strategies to improve student outcomes.
  – Year 10 achievement standards of A, B, and C only.
International Science Fair

• Term 3 Week 7 (Royal Show Week)
• Monday week 7 – half day
• Tuesday – Friday – challenge based learning
• Students attend like a normal school week
• Great opportunity to undertake additional study for Student Investigation Project or Research Project
• Each Challenge will have an excursion, some with cost
• This will be included in information to students and parents early next term; a letter and consent form will be distributed
• Places can’t be held in Challenges until payment is received
Some of the 2016 Challenges...

- What happens if the cars of the future go rogue?
- There’s Gold in Them Thar Hills
- Inspirational Anatomy
- Fibonacci’s Mosaics
- Rocket Subs!
- Solving Inner City Problems in Adelaide
- Trash Pirates
- Citizen Science – The World as a Laboratory
- Indigenous Foods
- B Girl Zowi Robot
- Choose Your Own Adventure
Maths for Year 11s in semester 2

• The ASMS teaches university pathway maths at year 12 – Specialist Maths, Maths Methods.

• Year 11 students not intending to study maths at year 12 can choose to undertake a different course in semester 2.

• Your maths teacher will talk with you about this.
Pathways Through Maths at the ASMS

**Year 10**
- Semester 1 MAT
- Semester 2 MAT

**Year 11**
- SACE Semester 1 MAT
- Semester 2 Maths Methods/Spec Maths
  - (For engineering, maths, physics university pathways)
- Semester 2 Maths Studies/Maths Methods
  - (For other science university pathways)
- Semester 2 Maths Co-design
  - (For students who have already done their 2 units of SACE maths)
- Semester 2 Maths Pathways
  - (For students who don’t want to do maths at year 12 or don’t require maths for a university pathway)

**Year 12**
- Stage 2 Specialist Maths
- Stage 2 Maths Methods
Year 11 Semester 2 Maths Methods/Specialist
Maths Pathway

• For students who want to study the following at university:
  – Engineering
  – Maths
  – Physics
Year 11 Semester 2 Maths Methods Pathway

• For students who want to study the following at university:
  – Any other science pathway
Year 11 Maths Pathway

- For students who are finding maths difficult at stage 1 and don’t want to study maths at year 12.

- Students will do a maths course that is different to the other students and will not have a year 12 pathway.
Year 11 Co-design Maths Pathway

• For students who have completed their SACE maths by the middle of year 11 and want to do maths in preparation for stage 2 maths or for interest

• Students need to apply on a Modified Curriculum Form (on the portal). Form needs to be returned to Glenys.
Subject Counselling

Student Selection Process

University Extension Studies
Subject Selection Process

• Early term 4

• How to choose subjects for year 12

• Subject recommendations
University Extension Studies

• An opportunity to study a 1st year university topic at Flinders University as part of your Year 12 studies
• 10 credits per semester = 20 credits. Will count towards ATAR
• UES Meeting early Term 4 to discuss UES program in greater detail and the application process. Date to be advised.
• Applications to be submitted to Bronte Nicholls by the end of Week 4 Term 4
Languages for 2017

• Students wishing to continue with a language can do so at the School of Languages – classes are held in the evenings at Adelaide High School.
Planning of Tertiary Pathways

ATAR

PATE
SACE Requirements

Compulsory Stage 1 40 Credits

- PLP 10 Credits
- Numeracy 10 Credits
- Literacy 20 Credits

Compulsory Stage 2 70 Credits

- Research Project 10 Credits
- Stage 2 Subjects & Courses 60 Credits

Additional choices subjects & courses from either Stage 1 or Stage 2

90 Credits

Grades A to E

SACE = 200 Credits
Eligibility for University Entry

• To be eligible for selection into a university course/program you must:
  
  – qualify for the SACE
  – obtain a Australian Tertiary Admission Rank (ATAR)
  – meet any prerequisite subject requirements for the course/program
  – Refer to SATAC publications
How your university aggregate is calculated

60 + 30 = 90

Your scaled scores from three 20 credit Tertiary Admissions Subjects (TAS) are used (60)
Your score for the flexible option (30) is the best 30 credits of scaled scores or scaled score equivalents from:
> the scaled score of a 20 credit TAS;
> half the scaled score of one or more 20 credit TAS;
> the scaled score of one or more 10 credit TAS (eg., Research Project B);
> scaled score equivalents for Recognised Studies to the value of 10 or the maximum of 20 credits.

Your university aggregate is the best possible score calculated from the above

NB – from 2016, the ATAR will be calculated from a 90 point university aggregate
The majority of Year 12 applicants enter University via the traditional, competitive entry method, where offers are made to eligible applicants with the highest ATAR's (Australian Tertiary Admission Rank) until enrolment numbers are reached.
Flinders University

- **Foundation Studies** (an introduction to university study)
- uniTEST
- **Indigenous Australian Access Entry Scheme**
- **Adult Entry (Special Tertiary Admissions Test)**

Many students decide to come to university after completing a TAFE/VET qualification. Even if you did not finish secondary school (Year 12) your TAFE/VET qualification may allow you to enter university.

Flinders sets aside places in most of its degree courses for TAFE/VET graduates. Students who have completed a TAFE/VET certificate III or higher are eligible to apply for undergraduate courses at Flinders.
Flinders is offering uniTEST to any eligible applicant wishing to enhance their opportunity to attend university. Flinders will select students based on both an applicant's Year 12 results (60% weighting toward the ATAR score) and uniTEST performance (40%).

**Am I eligible?**

- uniTEST is open to any current Year 12 student who will complete an Australian Year 12 qualification this year including International onshore Year 12 students.
- All Year 12 students of the ASMS are able to sit the test at the ASMS in September – strongly advised.

**Does uniTEST apply to my preferred course?**

- uniTEST results can be used for entry to most Flinders University courses.
As an ASMS student you have the opportunity to gain admission to an undergraduate course at Flinders University through a school recognised portfolio of achievement. This process is called PATE. Using the PATE provides direct entry to Flinders University and does not require an ATAR.

Courses not available include Medicine, Paramedic Science Nutrition and Dietetics, Psychology (Hon). Please check with Bronte Nicholls.
SACE completion

- SACE Completion
  - Research Project
  - 80 Stage 2 credits (negotiable for PATE)

ATAR or PATE

- ATAR (Best 90 points)
- PATE
  - Academic achievement
  - Learning capacity
  - Extended study

University offer

- University offer (ATAR + Bonus Points + UniTest + meet prerequisites)
- Early identification for Flinders University course offer (then fulfill portfolio requirements)
- Direct entry to Flinders University (When portfolio is verified by school)
1. Academic achievement
   • SACE and other accredited formal learning. Includes University extension subjects and VET

2. Academic achievement – externally referenced
   • Results of Year 10/11/12 UniNSW ICAS Tests

3. Extended self-directed learning
   - Formal Learning (SACE Research Project)
   - Informal Learning (eg., MOOC or creative portfolio)

4. Capabilities profile
   • Based on Australian Curriculum General Capabilities.
   • Students collect evidence of their capabilities relevant to their pathway
   • Evidence needs to extend beyond Level 6 standard
PATE process

• If you are interested in finding out more about this option and your suitability for this option, please contact Bronte Nicholls for an appointment.

Bronte Nicholls
Assistant Principal – Australian Science and Maths School

Bronte.nicholls@asms.sa.edu.au
University of Adelaide Early Entry Program

• This program is open to students at the ASMS who are interested in studying Science at the University of Adelaide. Students can lodge an expression of interest with the ASMS and then be nominated for the program.

• This link provides details

https://sciences.adelaide.edu.au/future-students/undergraduate/earlyentry/

• Any other questions – please contact Bronte Nicholls.
TAFE SA courses offered through SATAC have Course Admission Requirements (CAR) which all applicants must meet in order to be eligible for selection. CAR differ according to the level and type of course.

**Course Admission Requirements**
Courses may be considered competitive if there are limited places available, or non-competitive if all interested and qualified students will be accepted.

There are no CAR for non-competitive Certificate I, II, and III level courses at TAFE SA.

Admission requirements into competitive Certificate I, II, and III level courses will vary, and interested applicants are advised to refer to specific course details at [www.tafesa.edu.au](http://www.tafesa.edu.au).

All higher level qualifications including Certificate IV, Diploma and Advanced Diploma courses, whether competitive or non-competitive, will have specified entry requirements. These will vary by course and will be either:
> satisfactory completion of SACE Stage 2 (or equivalent);
> any Certificate III;
> satisfactory achievement in the TAFE SA Assessment of Basic Skills (TABS);
> specific prerequisite subjects or related study.
Special Provisions

- Special provisions are available if you are in a situation where an illness, learning difficulty, or unforeseen circumstance has made completing your assessments difficult.
- If you are applying for special provisions you need to provide evidence of your illness, learning difficulty, or unforeseen circumstance.
- More information can be found under Students and Families > Special Provisions.
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