

SACE & IB

# 2021 AEC Winter Revision Program

\$50 a day  
Early  
Bird!

Tue 6 - Fri 9 July &/or Mon 12 - Thu 15 July

SACE: Maths Studies I Specialist Maths I General  
Maths I Essential Maths I Physics I Chemistry I Biology  
Psychology I Nutrition I Accounting I Economics  
English Literary Studies I Essay/Report Writing  
Study Skills I UCAT Prep.

IB Maths SL, IB Maths HL, IB Physics SL & HL,  
IB Chemistry SL, IB Biology SL & HL



## Adelaide Education Consultants

*"This was by far the most helpful and productive way I could have spent my school holidays. Well worth the money spent and highly recommended." Abbey H.*

*"The seminar leader continually maintained a core focus on all topics ensuring presentations were informative and interesting." Liana T.*

*"I'm coming every holidays! It was well worth it." Kirby V.*

*"Absolutely fantastic! Great to get a different perspective." Tim S.*



[www.aeg.sa.edu.au](http://www.aeg.sa.edu.au)

**Adelaide Education Consultants**

Seminar Venue - St Mary's College, 253 Franklin St, Adelaide

Email - [enquiries@aeg.sa.edu.au](mailto:enquiries@aeg.sa.edu.au) Celebrating 42 years in 2021



# Welcome Parents & Students

The 2021 AEC SACE & IB Winter Revision Program will be conducted at 253 Franklin Street at St Mary's College, near West Terrace. The College offers an idyllic learning environment, with an easy "drop off-pick up" access zone at the front of the College on Franklin Street. It is within easy walking distance of trains, trams and bus stops including the Franklin Street Bus Station.

If students are taking morning and afternoon sessions they can bring their own lunch, or access the numerous cafes in Grote Street, Franklin St and West Terrace. Further information concerning the venue will be forwarded with the Confirmation of Enrolment.

## 2021/22 Programs:

2021 Autumn: Mon 15 - Thu 18 April  
Up to 3 full subjects can be taken

2021 Winter: Tue 6 - Fri 9 July &/or  
Mon 12 - Thu 15 July  
Up to 4 full subjects can be taken

2021 Spring: Tue 29 Sep - Fri 2 Oct &/or  
Mon 5 Oct - Thu 8 Oct  
Up to 4 full subjects can be taken

2022 Headstart: Wed 13 - Fri 15 January

*The ONLY SACE Revision Programs in South Australia offering incredible subject option flexibility and amazing value!*

*Online options for those who can't attend!*

*Over 35,000 students have chosen our holiday courses since 1980!*

*More than 500 Home and Online tutors are ready to assist you.*

# Subjects

## SACE Stage 2 Maths Methods

Tue 6 - Fri 9 July 9.30 am - 12.30 pm OR

Tue 6 - Fri 9 July 1.30 pm - 4.30 pm OR

Mon 12 - Thu 15 July 9.30 am - 12.30 pm

Day 1: Differentiation. First principles, chain rule, product rule, quotient rule as applied to functions  $x^n$ ,  $e^x$ ,  $\ln x$  and trig functions.

Day 2: Equation solving for the above functions. Applications of calculus to tangents and graphing.

Day 3: Further appls. of calculus to rates of change, motion & optimization.

Day 4: Integration fundamental ideas and processes.

The above topics cover the Calculus content of the SACE Subject Outline and corresponds to the first half of the Haese textbook.

Students are requested to bring their Graphics Calculator.

*Seminar Leader: Mr Tony Thompson BSc Dip Ed Dip T Grad Dip Ed Admin.*

*Tony has been teaching for over 40 years and has been a Mathematics Coordinator for 29 years. In past years Tony has been invited to lecture on methodology at Year 12 Mathematics teacher conferences and was a current co-author of the Year 12 Haese and Haese Mathematics publications.*

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## SACE Stage 2 General Maths

Tue 6 - Fri 9 July 9.30 am - 12.30 pm OR

Mon 12 - Thu 15 July 9.30 am - 12.30 pm

Day 1. Topic 3. Statistical Models.

Day 2. Topic 4. Financial Models.

Day 3. Topic 5. Discrete Models.

Day 4. Mathematical Investigations Workshop.

What makes an excellent Mathematical Investigation Report? (This report is worth 30% of your assessment)

*Seminar Leader: Mr Craig Smith B App Sc (Mathematical and Computer Modelling) Grad Dip Ed. Craig is a highly recommended Maths teacher who has been teaching for 14 years. Craig is a past examiner, has been involved in the SACE Maths Moderation process for 5 years.*

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## SACE Stage 2 Specialist Maths

Tue 6 - Fri 9 July 1.30 pm - 4.30 pm OR

Mon 12 - Thu 15 July 1.30 pm - 4.30 pm

Day 1: Mathematical Induction. Complex Numbers Part 1.

Day 2: Complex Numbers Part 2.

Day 3: Functions & Graphs.

Day 4: Vectors.

Students are requested to bring their Graphics Calculator.

This covers about 60% of the course and is intended to not only reinforce the work covered to date but also give a head-start on the work to come.

*Seminar Leader: Mr John Brazzatti B Ma Sc (Hons) Dip Ed Grad Dip Ed John has been teaching senior SACE Mathematics for more than 30 years and International Baccalaureate Maths for 10 years. Many of his SACE students have achieved excellent results over the years.*

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## SACE Stage 2 Physics

Tue 6 - Fri 9 July 1.30 pm - 4.30 pm OR

Mon 12 - Thu 15 July 1.30 pm - 4.30 pm

Day 1. 2.1 Electric Fields.

Day 2. 2.2 Motion of charges in Electric Fields.

Day 3. 2.3 Magnetic Fields. 2.4 Motion of charges in Magnetic Fields.

Day 4. 2.5 Electromagnetic Induction. 3.1 Wave behaviour of light.

The connection of theory to exam style questions will be an integral part of all sessions presented.

*Seminar Leader: Mr Joe Russo BEd (Physics). Joe has taught SACE and IB Physics for the last 21 years. Joe has been a co-editor of the SASTA Physics Revision Guide and has been a member of the team responsible for the preparation of SACE Physics Exam paper solutions.*

## SACE Stage 2 Biology

Tue 6 - Fri 9 July 9.30 am - 12.30 pm OR

Mon 12 - Thu 15 July 9.30 am - 12.30 pm

Day 1. DNA and proteins: Roles of DNA. Transcription. Translation. Structure and function.

Day 2. DNA and proteins: Enzymes. Mutations. Gene Expression. Biotechnology. Sequencing. PCR. Transgenesis. Profiling.

Day 3. Cells: Cell Theory. ADP/ATP Movement through membranes.

Day 4. Cells: Metabolism. Fission. Mitosis. Division. Intro. Homeostasis.

Throughout the week there will be practice questions, including many from past examination papers and discussion of how to tackle different types of questions.

*Seminar Leader: Dr. Keith Gatford B Sc Grad Dip T PhD*

*Keith has worked at leading Universities for nearly 10 years and has been a senior Chemistry and Biology teacher for over a decade. In that time he has achieved with his students, seven merits in Chemistry and seventeen merits in Biology. Keith also assists the SACE board in moderation of both Chemistry and Biology and in curriculum development and review.*

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## SACE Stage 2 Chemistry

Tue 6 - Fri 9 July 9.30 am - 12.30 pm OR

Mon 12 - Thu 15 July 9.30 am - 12.30 pm

Day 1. Monitoring the Environment. Topics 1.1 - 1.4

Day 2. Complete Monitoring the Environment. Managing Chemical Processes. Topics 2.1 - 2.3

Day 3. Complete Managing Chemical Processes. Introductory Organic Chemistry. Topics 3.1 - 3.3

Day 4. Complete Managing Chemical Processes. Topics 3.4 - 3.10

A critical look at essay construction and presentation will be an integral part of this course as will exam preparation procedures.

*Seminar Leader: Mr Rick Todd BEd (Chem. Maths)*

*Rick has been teaching Chemistry in SA for over 35 years & has been a senior Chemistry teacher at a leading independent school. Many of Rick's students have attained a perfect score of 20/20 in SACE exams and 7 in IB.*

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## SACE Stage 2 Psychology

Tue 6 - Fri 9 July 9.30 am - 12.30 pm

Day 1. Introduction to Psychology and Social Cognition.

Day 2. Learning.

Day 3. Personality.

Day 4. Psychobiology of Altered States of Awareness.

*Seminar Leader: Mr Paul Jessen B Ed Paul has been teaching Year 12 Psychology for many years. Paul's enthusiastic and passionate presentations have assisted many students achieve success in SACE Stage 2 Psychology.*

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## SACE Stage 2 Nutrition

Tue 6 - Fri 9 July 1.30 pm - 4.30 pm OR

Mon 12 - Thu 15 July 9.30 am - 12.30 pm

Day 1. The Fundamentals of Human Nutrition. Macronutrients.

Micronutrients. Digestion. Malabsorption syndrome. Metabolism.

Day 2. Diet, Lifestyle and Health. Diet related disorders and symptoms. Educational aids. Food selection guides and diagnostic tools.

Day 3. Food Selection and Dietary Evaluation.

Day 4. Factors that influence food choices. Disordered eating. Selection & prep. of food. Devt. of healthy eating patterns. Behaviour modifications.

*Seminar Leader: Mr Graeme Hudson B HSc B Ed (Sec) Graeme has taught Year 11 and 12 Nutrition for over 8 years and is a previous examination marker. Graeme has a strong passion for assisting students apply their knowledge and has consistently achieved outstanding results with his students.*

**SACE Stage 2 Physical Education/English Literary Studies/  
Accounting/Economics/Essay Report Writing...see web site**

# Study Skills RE-SET

Tue 13 - Thu 15 July 1.30 pm - 4.30 pm

Suitable for SACE Year 10 - 12 and IB SL and HL students.

Now available face to face and online.

## **Day 1. RE-VISIT your Learning style dominance. Information Processing/Recording**

How to capitalise on your VAK strengths. How to implement Left/Right Brain Strategies to improve study outcomes. Learn the crucial difference between note taking and note making & why written notes enhance brain functioning. 4Mat Learning Model. McCarthy Learning Model. Discover the study secrets of successful 20/20, 7/7 students.

## **Day 2. RE-SET your Time Management & Organisation Priorities/Test & Exam Preparation Strategies.**

Analysis of proven and tested TM Models. How to put the Pareto, Parkinson & Quadrant 2 TM laws into perspective. How to use Goal Setting to underpin & crystallize desired results. Which online Organisation Apps/Tools are best? Test & Exam Prep. Strategies. Discover why and where students continually lose marks in tests and exams. (compiled by past and present SACE examiners). Memory Skill Strategies. Exam Room Strategies. Online Exam Strategies.

## **Day 3. RE-SET your Ambition/Motivation and Goal Setting Paradigm**

Student Motivation Techniques....How to keep motivated and on task in these challenging times. Internal vs External Goals. Learn how to deal with test and exam anxiety. Learn how to effectively balance social, sport, work and study responsibilities. Learn how to build an Exam Preparation Plan (EPP) Technology: Friend or foe? How to effectively manage social media. Discover the important connection between mental and physical well being. How to turn challenges into opportunities. Resilience theory: How to rebound or bounce back from adversity. Resilience & Positive Psychology. Managing Self Talk. Stress Management. Relaxation Methods.

## **RE-SET RE-ENERGISE RE-MOTIVATE RE-VALUE = RE-SULTS**

*Seminar Leader: Mr Greg Allison BA Dip Ed.*

*Greg is one of Australia's leading study skills presenters. A successful Year 12 teacher and senior counsellor, Greg is a recognised education specialist in the field of personal performance and study skills. His practical, no nonsense approach towards the many aspects of student performance has motivated and enhanced academic performance for thousands of students, whilst his learning and motivation strategies have been recognized by training authorities overseas and interstate. Greg has successfully coached sporting teams at State, National and International level and has represented South Australia on 32 and Australia on 8 occasions and is a World Championship Bronze medallist.*

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## Medical Entrance Preparation UCAT

[Free Live Interactive Webinar Thursday 28 May 7-9 pm \(Register Online\)](#)

- We introduce you to our experienced lead UCAT tutors.
- Why its not too late to prepare for UCAT.
- How to prepare for the exam.
- What are aptitude tests and why do we use them?
- Mini Problem Based Learning (PBL) class.
- Question and Answer time. How to use mock exams. What is our strategy weekend?
- Students can literally go from zero to hero in this time. This free webinar will cover how students can structure their next two months of study and most importantly, why it's not too late to get started.

The UCAT ANZ is a compulsory entry requirement for our Australia and New Zealand Consortium universities. You are required to sit the UCAT ANZ 2021 test (between 1 July and 11 August 2021)

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## Home tutoring

- We've been referring students and parents to qualified and experienced tutors for over 40 years with thousands of successful students achieving amazing turn arounds in their results!
- Call our Tuition Coordinator today on 0417778232, or complete our application form at: [www.aeg.sa.edu.au](http://www.aeg.sa.edu.au)

# Face to Face Schedule:

Week 1: Tue 6 - Fri 9 July

Enrol using website portal:

9.30 am - 12.30 pm	1.30 pm - 4.30 pm
SACE 12 Maths Methods IB Maths SL	SACE 12 Maths Methods SACE 12 Specialist Maths
SACE 12 General Maths	SACE 12 Physics
SACE 12 Chemistry	SACE 12 Essential Maths IB Chemistry SL
SACE 12 Biology	SACE 12 Nutrition / Legal Studies
SACE 12 Psychology	SACE 12 Accounting / Economics

Week 2: Mon 12 - Thu 15 July

Enrol using website portal:

9.30 am - 12.30 pm	1.30 pm - 4.30 pm
SACE 12 Maths Methods IB Physics	SACE 12 Physics/ Spec. Maths IB Maths HL / IB Biology
SACE 12 General Maths	SACE 12 Nutrition
SACE 12 Chemistry	SACE 12 Physical Education
SACE 12 Biology / 12 Psychology	SACE 12 Essay/Report Writing Study Skills

# Online Live Schedule:

Week 1: Tue 6 - Fri 9 July

Enrol using website portal:

9.00 am - 11.00 am	<a href="#">SACE 12 Maths Methods</a>
11.30 am - 1.30 pm	<a href="#">SACE 12 Chemistry</a>
2.00 pm - 4.00 pm	<a href="#">SACE 12 Biology</a>
4.30 pm - 6.30 pm	<a href="#">SACE 12 Physics</a>

Week 2: Mon 12 - Thu 15 July

Enrol using website portal:

9.00 am - 11.00 am	<a href="#">SACE 12 Specialist Maths</a>
11.30 am - 1.30 pm	<a href="#">SACE 12 Psychology</a>
2.00 pm - 4.00 pm	<a href="#">SACE Physical Education</a>
4.30 pm - 6.30 pm	<a href="#">SACE Nutrition</a>
7.00 pm - 9.00 pm	<a href="#">RE SET Study Skills RE-SET</a>

Name .....

Address.....

..... P/Code .....

Mobile.....Email.....

No. of subject(s) circled above @ \$275 (\$199 Early Bird) \$.....

☐ Mastercard ☐ Visa ☐ Pay Pal ☐ EFT

Cardholder ..... Exp. .... / .....

Card No. .... / ..... / ..... / .....

☐ E-Transfer to AEC BSB: 035 006 Acct Number: 156 305

Bookings: [www.aeg.sa.edu.au](http://www.aeg.sa.edu.au) or call our  
Enrolments Officer 24/7 direct on 0417778232