



corri baker . chemistry bridging

2011 course information booklet

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cb² intro

The aim of the cb² course is to provide a foundation in chemistry for students who:

- require significant chemistry knowledge for GAMSAT
- have been using other GAMSAT preparation materials and have found them too hard
- are enrolling in science, engineering, medical or veterinary courses which assume a knowledge of chemistry
- have no chemistry background
- studied Chemistry in year 12 but need the university level chemistry knowledge for the GAMSAT
- studied chemistry some time ago
- need to refresh or better understand chemistry and associated mathematical application

The course provides all the basic knowledge and extends to give an understanding of more difficult concepts.

Lecturer for the course is Corri Baker. Corri's teaching and academic appointments include Lecturer in Chemistry at the University of South Australia, 1st year Chemistry 1A/1B tutorial classes at Adelaide University (non-compulsory but attracting 80-100 students per session), ADUChem Bridging Course as well as years of experience marking Chemistry 1 exam papers, practical demonstration to 3rd year university level, and the private tuition of numerous students from schools, universities and GAMSAT candidates.

Corri has a BSc (Hons) in chemistry and is currently in the final stages of her PhD in chemistry at Adelaide University. The research focus of her PhD is in the field of synthetic molecular receptors, combining aspects of organic and analytic & inorganic chemistry.

To peruse a more extensive summary of Corri's research profile and credentials please visit the "about" page of www.corribaker.com.



cb² for GAMSAT candidates

Just over *half* the GAMSAT is made up of Biological and Physical Sciences questions. **40% of this section is Chemistry.** The level of Chemistry required extends well beyond year 12 chemistry taught in Australian Schools, in fact, a significant proportion is part of second year university Level chemistry as taught at Adelaide University. With around 1 minute and 30 seconds to answer each question, a strong understanding of high level first year university Chemistry would be extremely beneficial.

The GAMSAT information booklet found at the official GAMSAT website (www.gamsat.acer.edu.au) states the following with regard to preparation for the GAMSAT:

“it must be stressed that success in GAMSAT is unlikely without knowledge and ability in the biological and physical sciences, however this is acquired.

GAMSAT measures skills and knowledge acquired over a long period of time, as well as the ability to reason, make logical deductions and form judgments. There would therefore be little benefit to be gained from last-minute ‘cramming’. However, for non-science graduates some specific preparation covering relevant basic sciences to first year university level is highly recommended.

Some candidates may wish to enrol in a short tertiary level science course to ensure adequate preparation.”

The cb² course provides students with lecture notes and tutorials of first year and relevant second year university level chemistry. The course is designed to give students a good grounding in the background chemistry required. Specific multiple choice question answering techniques, including speed of text uptake and problem solving are not specifically covered in the course, and must be practiced along with the chemistry concepts using specific GAMSAT preparation material such as the official ACER books.

The cb² course moves at a swift pace in order to cover the basics of chemistry right through to the high 1st year level chemistry required in the GAMSAT. Attendance at lectures and interactive tutorials is highly recommended to obtain maximum benefit from the course, however if you are unable attend you can choose the “at home pack” option during the online registration process (see later in this document for more information).



what is included?

The course is a 10 week lecture and tutorial course similar to a semester of university study and is comprised of:

- 30 hours of lectures
- 10 hours of tutorials
- Lecture notes booklet (~ 1000 slides!)
- Online access to all lectures in mp3 format
- Tutorial questions and answers
- Comprehensive summary of all 21 topics, including a list of all the main concepts from each section
- 21 written tutorials with answers
- Guide to official ACER Gamsat questions - a list of references to relevant section of lecture notes for each question
- Discounted Workbook Offer: receive 20% off the "Elements of Senior Chemistry Workbook" when you enrol and pay in full before the commencement of the course (RRP: \$60)
- References to workbook and textbook questions for further practice

when and where?

Monday and Wednesday evenings from 6:00 pm to 8 pm

All courses take place at the Adelaide University Chemistry Department, North Terrace Campus.

See the tuition and courses page of the website for the currently available courses.



topics covered

1. Atoms Molecules and Ions
2. Bonding
3. Stoichiometry and Solution Chemistry
4. Molecular Geometry & Intermolecular Forces
5. Gases
6. Thermochemistry & Thermodynamics
7. Chemical Kinetics: Reaction Rates
8. Chemical Equilibrium
9. Acids and Bases
10. Phases & Physical Properties of Solutions
11. Oxidation & Reduction (REDOX) and Electrochemistry
12. Quantum Theory & Nuclear Chemistry
13. Intro to Organic Chemistry
14. Functional Groups
15. Stereochemistry
16. Reactions of Functional Groups
17. Reaction Mechanism
18. Carbohydrates
19. Protein Chemistry
20. Lipids (no lecture, tutorial only, strong overlap with Biology/Biochemistry)
21. Structure Determination (Spectroscopy & Spectrometry)

Download a more detailed course summary containing a list of concepts covered from the "tuition and courses" page, www.corribaker.com



at home pack

at home pack (standard):

- Lecture notes book (~ 1000 slides!)
- Comprehensive summary of all 21 topics, including a list of all the main concepts from each section
- 21 written tutorials with answers
- References to workbook and four other textbooks for further practice
- Guide to official ACER Gamsat questions - a list of references to relevant section of lecture notes for each question
- Elements of Senior Chemistry Workbook with answers CD which contains full worked solutions (\$60 RRP).

at home pack (+ audio):

includes all of the features of the standard pack, as well as online access to lecture recordings in mp3 format.

private & group tutorial sessions

Short tutorial course: A series of four tutorials which follows the 10 week course. The tutorials are designed to be directed by you, and for you to have your own last minute questions answered before the GAMSAT. Register online at www.corribaker.com.

There is limited availability for private tuition for GAMSAT, at a rate of \$70 per hour for individuals, and \$80 per hour for groups of 2-4 people. Priority is given to students who are enrolled in the course. Depending on your needs, and given the large amount of material to be covered, you will find it much better value to enrol in the course, at least to start with, if you are able to.

Small group tutorials are also welcomed, either organise a group, or there may be the opportunity to be placed in a group if available, email me to be placed in a group.



how do I enrol?

Registrations are now open for winter cbsquared course, commencing in July. Register online at www.corribaker.com.

To secure your place, follow the link at www.corribaker.com to register and pay the \$70 deposit.

You can also register your interest or apply for tuition and at home packs through the online enrolment, even if you are not yet sure if you will take the course. Registrations placed without payment will form the waiting list once the course reaches capacity.

Further information can be requested via registration if you require, or you might like to consult the FAQ's. Please note that ***places are limited*** to ensure the course is not over crowded.

For further information and advice don't hesitate to send an email or call. I am happy to answer any questions regarding the suitability of the course and give general advice on how best to approach your study for the GAMSAT.



how much?

- **cbsquared 10 week chemistry course \$495**

Including: 30 hours total of contact time, lecture notes pack, tutorial Q & A, access to online lecture recordings.

- **cbsquared 10 week chemistry course + Elements of Chemistry Workbook \$545**

Including: 30 hours total of lecture notes, tutorial Q & A, 20% offer for "Elements" workbook.

- **cbsquared at home pack (standard) \$165 + \$11.90 p&h**

Including: lecture notes, tutorial Q & A, a copy of the "Elements" Workbook

- **cbsquared at home pack (+ lecture recordings) \$295 + \$11.90 p&h**

Take the entire course at home, listen to the lectures when you like! Including: lecture notes, tutorial Q & A, the "Elements" Workbook, plus online lecture recordings in mp3 file format.

- **cbsquared short tutorial course (email for availability) \$195**

Including: 4 x 1.5 hour group tutorials, lecture notes, tutorial Q & A

Optional extras: "Elements of Senior Chemistry" Workbook (add \$50), 20+ hours of Lecture Audio Files, mp3 format (add \$120)

Places are limited to ensure the classes are not over crowded. To secure your place, a \$70 non-refundable deposit is payable now.

payment information

You may pay via EFT:

Corrin Baker

Acc No. 060 092 240

BSB 105-135

Please state your name in the description.

Notification of payment emails can be sent to info@corribaker.com. You will be emailed a receipt normally within 24 hours of your payment clearing in my account.



frequently asked questions

What is the difference between Des O'Neill's Science Revision Course and the cb² course?

Des O'Neill's *Attendance Science Revision Course* is run over three days in January. In this time, you will cover Physics, Biology *and* Chemistry. There is a large amount of Chemistry in the GAMSAT, comprising 40% of the Science section (section III).

The cb² course includes a minimum 30 hours of contact time in the form of lectures and tutorials, over 10 weeks, Des O'Neill's course is 21 hours of seminars in three days. The course is distributed over 10 weeks with the intention that tutorials be worked on at home and any questions addressed in tutorial sessions the following week. Des O'Neill's course is three days in January, running as an intensive revision session.

You will find a list of topics that need to be covered for chemistry alone listed in this document on page 4. This amount of material would normally be covered over more than a full year of first year university study, normally having been preceded by the study of chemistry at year 12 level.

The cb² course is specifically designed to teach the essentials from such a large topic breadth. This 10 week course provides more time to effectively grasp concepts, while having an experienced tutor on hand to answer your questions and provide support week after week.

You may find it difficult to grasp all the concepts in such a short space of time if you have limited background in chemistry. cb² is run over 10 weeks in order to take you from a novice level chemist to a higher level, so that you are able to start tackling the trickier multiple choice questions you will find in the official ACER GAMSAT preparation books.



I am already taking Des O'Neill's Science Revision Course. What will I gain from completing the cb² course as well?

You will benefit in different ways from both courses, and they work well in conjunction with one another. Do not expect to be able to learn the huge amount of concepts required in Des O'Neill's three day science revision seminar alone.

You will need some background chemistry knowledge first to even *begin* to be able to answer the questions provided in the official ACER GAMSAT preparation materials. The same applies for the questions provided in Des O'Neill's materials.

The cb² course is purposely scheduled much earlier so that you can have the maximum preparation and as much background knowledge in chemistry as you can, in order to get the most out of Des O'Neill's intense three day course in January.

What is the difference between the cb² course and the ADUChem Bridging course presented on the University of Adelaide Website?

I have been a tutor for the ADUChem Bridging course since 2006. The course is run for two weeks during the day in early February. It is designed to cater to students that have no chemistry background, and are entering into Foundations of Chemistry 1 once they start university.

The pace and amount of chemistry material covered is far less than what is required for GAMSAT. In addition, by February when the course starts, you will need to be well beyond the basic level of chemistry that the ADUChem course teaches.

However, if you intend to sit the GAMSAT in 2011, the ADUChem course would be a good place to start and get the basics of chemistry, followed by more advanced chemistry taught in cb² in late 2010. For more information about the ADUChem course, see the Adelaide University website.



testimonials

Feedback for cbsquared Summer course 2009 – 2010:

"Excellent course and value for money, made learning difficult concepts in chemistry seem easy. Was able to learn quickly and efficiently. Thank you."

"Corri's chemistry course improved my science score by 10 points. The course was in depth enough to answer the questions in GAMSAT without going into too much detail with unnecessary information.

"I thought the course/Corri was extremely effective at stimulating interest and teaching the various chemistry components given time restraints, varying range of student knowledge and complexity of some topics. I felt I had a MUCH greater understanding of all the chemistry components compared to when I did the GAMSAT 12 months prior."

"It was useful being in a class with everyone getting a feeling for how other people were coping and studying, etc. The tutorials and audio were great, very useful. I would definitely recommend. Very useful to have the course and Corri to provide motivation."

"I felt very comfortable asking Corri questions and thought that she explained things well in ways that I found easy to understand."

"This course was exceptional. Corri is an inspiring teacher with a great accessible style. I particularly love that she was so open to questions and quandaries. I had done year 12 chemistry in 1983 so it was a long time between drinks. She has ignited this subject to me. I may stay enamoured with molecular science - how frickn amazing. I will recommend this course to anyone doing the GAMSAT."

"Very pleased with the quality of the course, you certainly helped me to get up to the level of chemistry required for the GAMSAT. Thanks."

"Corri you are a kind and very approachable person. I particularly appreciated your encouraging comments about stress management just before the GAMSAT. You are also an excellent chemist. Thankyou."



"Lectures were great. They were easy to follow and understandable. The material was delivered in a way that there wasn't a large amount of material at once, nor was it so that everyone was asleep from repetition. The tips you provided were great, in particular chirality and R & S assignment. The approach was much simpler than that offered by other courses."

Feedback from students prior to 2009:

I received one on one Chemistry tutoring from Corri leading up to the GAMSAT in 2007. Previously, I had just Yr 11 Chemistry and was in dire need of help!! Corri had previous experience with tutoring students for the GAMSAT and knew the specific areas to cover in detail for GAMSAT.

Corri was fantastic and presented the information in such a way that Chemistry made sense to me for the first time! She established goals for me to achieve each week and systematically led me through the content covered in an undergraduate 1st year chemistry topic. Her enthusiasm for teaching never wavered and her personable manner made me comfortable and confident in my learning. I successfully completed GAMSAT and gained entry into postgrad medicine. I would highly recommend Corri as a tutor.

Kerry Klinge, Flinders University Medical Student.

I found Corri Baker's chemistry GAMSAT preparation tuition to be both comprehensive and professional in both content and presentation. Her clear descriptions and obvious passion for teaching the chemistry concepts required for success in the GAMSAT have aided me in succeeding in gaining an interview for post graduate medicine at Flinders University. (2009)

Jarrold Marks, Flinders University Medical Student

For more testimonials and to view a Student Evaluation of Learning and Teaching of my teaching at Adelaide University please visit www.corribaker.com