Section 2 - Connect with your University

MADELEY ACADEMY

Reading List - Applied Science

You will all be starting the next chapter in your life in September. It may be that you are going off to university or you will be starting employment. Below are some ideas of activities and reading that you can do to keep your mind active before September.

If you are going on to study at university here are some ideas that might help you:

• Get yourself organised. You will be expected to be responsible for your own equipment and notes. It is important you arrive ready to learn. Think about how you want to store your notes. Are you going to use notepads or folders and paper? Your notes from A-Level can be useful especially in your first year at university. Organise all of your existing notes so you can access them quickly.

• Are you confident at taking your own notes. You will be expected to make notes when you attend lectures. There are lots of different ways you can make notes. Have a look at this article and practice different ways to see what works best for you: https://collegeinfogeek.com/how-to-take-notes-in-college/

If you are going on to study a science based course at university you will have practical based lab sessions as well as lectures. It is important you can remember the practical skills you learned in Units 2 and 3. Look back over your notes and summarise the key practical methods covered, e.g. Titrations, equipment calibration and making a standard solution.

You will also have to analyse data from your experimental work. It is important you can remember the mathematical skills and statistical analysis you learned.

A book that you may find useful to help you with maths on a science based course is: https://www.amazon.co.uk/Catch-Up-Maths-Stats-second/dp/1904842909

Below are some books taken from the reading lists different universities publish. Depending on the course you are going to study you may find it useful to look through some of these in advance.

General Forensic Text Books: • Crime scene to court: the essentials of forensic science, White Peter (2010), RSC Publishing, Cambridge, 3rd ed, ISBN-10 1847558828 • Forensic science: an introduction to scientific and investigative techniques, James Stuart H. (2009), CRC, London, 3rd ed, ISBN-10 1420064932 • Crime scene management: scene specific methods, Sutton Raul, TruemanKeith (2009), WileyBlackwell, Oxford, ISBN-10 0470016795

Biology Books: • Biology, Campbell Neil (2008), Pearson Benjamin Cummings, London, 8th ed., ISBN-10 0321550382 • iGenetics: a Mendelian approach, Russell Peter J. (2006), Pearson/Benjamin Cummings, San Francisco, ISBN-10 080534666X

Chemistry Books: • General, organic, and biological chemistry: structures of life, Timberlake Karen (2010), Prentice Hall, London, 3rd ed., ISBN-101408294125 • Maths for chemistry: a chemist's toolkit of calculations, Monk Paul M. S. (2010), Oxford University Press, Oxford, 2nd ed, ISBN-10 0199541299

Physics Books: • The physics companion, Fischer-Cripps AC. (2003), Institute of Physics Pub., ISBN 0750309539 • Fundamental of physics, Shankar R. (2014), Yale University Press, ISBN 9780300192209

Anthropology Books: • The human bone manual, White T. D., FolkensPieter A. (2005), Academic, Oxford, ISBN-10 0120884674 • Introduction to forensic anthropology, Byers Steven N. (2011), Pearson Education, Harlow, 4th ed, ISBN-10 0205790127

Physiotherapy Books: • Physiotherapy: A Psychological Approach, French S., Sim J. (2004) Butterworth Heinemann, Oxford ISBN 9780750653299 • Anatomy & Physiology. The Unity of Form and Function, Saladin KS., (2004) McGraw-Hill ISBN 9780077127107

Paramedic Science: • Essentials of Anatomy and Physiology, Tortora G, DerricksonB, (2013) Willey ISBN 9781118092460 • Emergency Care in the Streets (UK Version), Caroline N., (2013), Jones & Bartlett