

2010 SENIOR COURSE INFORMATION

Head of Department.

Mark Berry

Subject: : TECHNOLOGY HARD MATERIALS

	Year 11	Year 12	Year 13
Course Content	<p>Total Credits: 30</p> <p>This year level is primarily achievement standard based with two unit standards attached. This covers work that is already being done during the year. Students begin the year by being given a brief in which they are asked to design and produce a model C02 Dragster to take part in the school competition. The second assignment is to produce a Time piece to fit in some where around their home environment. These two products are accompanied with a Design folio each. This work is then sent off at the end of the year to satisfy the needs of one external assessment. Students will be given internal assessment dates in their technology year book at the beginning of the year along with the full process involved in assessment. In special circumstances these can be negotiated with the teacher concerned</p>	<p>Total Credits: 28</p> <p>This is a largely practical course made up of a mixture of Unit standards and achievement standards. Students begin the year by drawing and making a saw stool followed by the designing and making a piece of garden furniture while working with an outside facilitator (stakeholder) of their choice. These projects are accompanied by a design folio showing the full development of their brief and ultimate design process of their product.</p> <p>Students will be given internal assessment dates in their technology year book at the beginning of the year along with the full process involved in assessment. In special circumstances these can be negotiated with the teacher concerned</p>	<p>Total Credits: 20</p> <p>At this level students can choose a combination of achievement standards and unit standards depending on the ability and the needs of the individual student. At this level the students begin to work with composite materials. The programme at year 13 is individual to the student and each student needs to confirm with HOD/ Dean/ Assistant Principal that it fits his/her goals in terms of University Entrance or other further study.</p> <p>Students will be given internal assessment dates in their technology year book at the beginning of the year along with the full process involved in assessment. In special circumstances these can be negotiated with the teacher concerned</p>
Pre Requisites	<p>This is an option at year 11. Students should normally have taken furniture in year 10.</p>	<p>Students should have obtained 14 credits at level one technology.</p> <p>This should consist of at least 10 internal credits and the 4 external credits.</p>	<p>Students should have obtained at least 16 credits in level 2 technology.</p>
Assessment	<p>AS900450 (1.1) Develop a technological solution to a given brief.</p> <p>AS900460 (1.2) Formulate a brief to address a given issue.</p> <p>AS90050 (1.6) Present a technological solution that addresses the requirements of a brief.</p> <p>AS90049091.5) Demonstrate understanding of technological knowledge.</p> <p>US13403 Use materials to produce a prototype of a technological solution</p> <p>US 7524 Use cutting, shaping, assembly and finishing processes in materials technology</p>	<p>AS90350 (2.2) Develop and model a conceptual design.</p> <p>AS903720 Expertise in materials technology</p> <p>US7527 Apply fabrication, assembly and finishing methods.</p> <p>US7528 Working with design tolerances and using marking out tools.</p> <p>BCITO US12932 Garden furniture.</p> <p>BCITO US24352 Demonstrate knowledge of and finishing methods in materials technology.</p>	<p>AS906830 (3.7) Expertise in materials technology.</p> <p>US134505 Develop a prototype of a technological solution using composite materials.</p> <p>US7529 Test and select materials for a design task.</p> <p>US7531 Select, apply and test joining processes for a design task in materials technology.</p>
Costs	<p>A basic Materials fee of \$50 and then if students use more expensive or large quantities of materials this charge will increase.</p>	<p>A basic Materials fee of \$50 and then if students use more expensive or large quantities of materials this charge will increase.</p>	<p>A basic Materials fee of \$50 and then if students use more expensive or large quantities of materials this charge will increase.</p>