



Stage 4 Technology (Mandatory)

Hunter School of the Performing Arts

Rationale

Hunter School of the Performing Arts (HSPA) is located in Broadmeadow, approximately seven kilometers from the Newcastle CBD. There are approximately 1080 students enrolled at Hunter School of the Performing Arts from kindergarten to year 12. Approximately 10% of this number is enrolled in the primary department of the school.

Students are selected to attend the school on the basis of their aptitude for a performing art, via an audition and interview process typically conducted in kindergarten and year 7.

The drawing area for Hunter School of the Performing Arts extends throughout the Hunter Region and Central Coast. HSPA students are predominately Anglo Saxon, however, the school also hosts the Millabah Aboriginal Dance Company which accounts for approximately 45 of our students.

The TAS faculty is comprised of a Head Teacher and eight classroom teachers. Of this number, three were originally trained as home economics specialists and three as industrial arts specialists. One of the latter completed a conversion course in the early 1990s after spending 20 years working in industry. Our two computing specialists were originally trained as science teachers and our ninth member of staff has a background in both Human Society and Its Environment and science.

All faculty members are conversant and capable users of technology. Staff members have additional credentials in Hospitality, Entertainment Industry Training, Radio Broadcasting, Electrical Engineering, Retail and Information Technology.

Hunter School of the Performing Arts works with a ten day cycle of six 53 minute lessons per day. Year 7 technology classes are exposed to one teacher for six lessons per cycle for six months. They address two design projects within this time. Classes then rotate for a further six months with a second teacher. Teachers deliver design projects that are related to their own expertise and training. Year 8 technology classes currently operate on a similar rotation system that is complicated by timetable imperatives that necessitate the splitting of several classes between two teachers during any six month period. This means that some Year 8 classes are studying two design projects concurrently.

Hunter School of the Performing Arts has four computing rooms, two food laboratories, two woodwork rooms, an entertainment industry technology work centre and a textiles room, that can be accessed by junior technology classes. Demand for these rooms is high, however, junior technology has been assigned a high priority by timetablers and to date needs have been accommodated.

Students at HSPA have a very strong performing arts orientation. Whole school initiatives such as the biennial school musical production, the Shakespeare Festival and seasonal music festivals provide many opportunities for our students to shine.

School reporting is performed on a semester basis and outcomes-based reporting is being progressively introduced.

Agreed Purpose Statement

In the process of completing the Stage 4 Technology (Mandatory) course at Hunter School of the Performing Arts, students will develop deep understandings and skills relating to:

- the independent initiation of design projects and investigations that reflect an understanding of needs and opportunities
- the effective communication of ideas to a diverse audience using a range of media and methods
- the safe, competent and confident application of a range of tools and techniques, including ICT tools, in a variety of contexts
- self reflection and the evaluation of their own design projects.

Quality teaching practices that will facilitate these deep student understandings include the:

- provision of explicit criteria for the assessment of the quality of work that students produce
- communication of high expectations of all students
- encouragement and rewarding of conceptual risk taking
- provision of a strong, positive and supportive learning environment
- promotion of mutual respect among teachers and students.

The organisational approaches that will be used by Hunter School of the Performing Arts to support these quality teaching practices and deep understandings include the:

- appropriate use of the expertise, skills and knowledge of specialist teaching staff to provide high quality instruction and establish appropriate benchmarks for student achievement
- delivery of the design content of the course in a sequence that is common to all classes, rather than linking specific design experiences to particular design projects. This approach will ensure that there is a logical progression in the development of design skills and understandings throughout the two year course
- use of eight design projects in the delivery of this course to ensure that students are exposed to the greatest breadth of study possible.



Hunter School of the Performing Arts: Course overview Technology (Mandatory)

| Title | Home alone: Survivor | Windows of opportunity | Think outside the box | The crown jewels |
|-----------------------|--|--|-----------------------------------|----------------------------|
| Duration | 10 weeks | 10 weeks | 10 weeks | 10 weeks |
| Area of study | Products | Information and communications | Products | Products |
| Design specialisation | Food design | Information systems design | Industrial design | Jewellery design |
| Technologies | Food technologies | Information technologies | Timber technologies | Polymer technologies |
| Focus outcomes | 4.2.2, 4.3.1, 4.6.1 | 4.2.1, 4.3.1, 4.3.2, 4.5.1, 4.5.2, 4.6.1 | 4.1.2, 4.3.1, 4.3.2, 4.5.1, 4.5.2 | 4.1.1, 4.2.1, 4.2.2, 4.3.1 |
| Contributing outcomes | 4.1.1, 4.2.1, 4.3.1, 4.3.2, 4.5.1, 4.5.2 | 4.1.1, 4.1.2, 4.1.3 | 4.2.1, 4.6.1 | 4.5.1, 4.6.1, 4.5.2 |

| Title | SiteMaster | Backyard bitz | Ebb and flow | Sew what! It's my room! |
|-----------------------|--|-----------------------------|--|---|
| Duration | 10 weeks | 10 weeks | 10 weeks | 10 weeks |
| Area of study | Information and communications | Built environments | Built environments | Built environments |
| Design specialisation | Promotional design | Landscape design | Environmental design | Interior design |
| Technologies | Media technologies | Mixed material technologies | Model-making technologies | Textiles technologies |
| Focus outcomes | 4.2.1, 4.2.2, 4.3.1, 4.5.1, 4.5.2 | 4.1.1, 4.2.1, 4.3.1, 4.3.2 | 4.1.1, 4.1.2, 4.2.1, 4.3.2 | 4.1.2, 4.3.1 |
| Contributing outcomes | 4.1.1, 4.1.3, 4.3.2, 4.4.1, 4.6.1, 4.6.2 | 4.2.2, 4.6.1, 4.5.2 | 4.1.3, 4.2.2, 4.4.1, 4.5.2, 4.6.1, 4.6.2 | 4.1.1, 4.1.3, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.5.1 |

Hunter School of the Performing Arts: Rotation matrices Technology (Mandatory)

Two class rotation

| | Term 1 | Term 2 | Term 3 | Term 4 |
|----------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Class 1 | Teacher 1 DP1 Food Lab | Teacher 1 DP2 Computer Rm | Teacher 2 DP3 Technics Lab | Teacher 2 DP4 Technics Lab |
| Class 2 | Teacher 2 DP3 Technics Lab | Teacher 2 DP4 Technics Lab | Teacher 1 DP1 Food Lab | Teacher 1 DP2 Computer Rm |

| | Term 5 | Term 6 | Term 7 | Term 8 |
|----------------|---------------------------------|----------------------------------|---------------------------------|----------------------------------|
| Class 1 | Teacher 1 DP5 Computer Rm | Teacher 1 DP6 Technics Lab | Teacher 2 DP7 Food Lab | Teacher 2 DP8 Textiles Rm |
| Class 2 | Teacher 2 DP7 Food Lab | Teacher 2 DP8 Textiles Rm | Teacher 1 DP5 Computer Rm | Teacher 1 DP6 Technics Lab |



Three class rotation

In this approach:

- Design related content is planned for the course
- Design related content is addressed at the same time by all classes
- Class groups rotate between teachers
- Class groups rotate between specialist rooms

| | Term 1 | Term 2 | Term 3 | Term 4 |
|----------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Class 1 | Teacher 1 DP2 Computer Rm | Teacher 2 DP1 Food Lab | Teacher 3 DP3 Technics Lab | Teacher 1 DP5 Computer Rm |
| Class 2 | Teacher 2 DP1 Food Lab | Teacher 1 DP2 Computer Rm | Teacher 2 DP8 Textiles Rm | Teacher 3 DP3 Technics Lab |
| Class 3 | Teacher 3 DP3 Technics Lab | Teacher 3 DP4 Technics Lab | Teacher 1 DP2 Computer Rm | Teacher 2 DP1 Food Lab |

| | Term 5 | Term 6 | Term 7 | Term 8 |
|----------------|----------------------------------|------------------------------------|-----------------------------------|----------------------------------|
| Class 1 | Teacher 2 DP4 Technics Lab | Teacher 2 DP6 Technics Lab | Teacher 3 DP7 Food Lab | Teacher 1 DP8 Textiles Rm |
| Class 2 | Teacher 3 DP5 Computer Rm | Teacher 1 DP7 Food Lab | Teacher 2 DP4 Technics Lab | Teacher 2 DP6 Technics Lab |
| Class 3 | Teacher 1 DP7 Food Lab | Teacher 3 DP5 Computing Room | Teacher 1 DP8 Textiles Room | Teacher 3 DP6 Technics Lab |



Hunter School of the Performing Arts: Design project plans Technology (Mandatory)

| |
|---|
| Unit No.: 1 |
| Title: Home alone: Survivor |
| Duration: 10 weeks |
| Area of study: Products |
| Design specialisation: Food design |
| Technologies: Food technologies |
| Description of design project: Students will create an individual <i>Survivor Guide</i> containing 10 customised recipes for 7 main meals and 3 snack items that could be used to feed oneself whilst parents are holidaying overseas (a purely theoretical concept!). Students will prepare 6 recipes which they will then personalise and add an additional 4 recipes to create their own nutritionally sound, skill diversified recipe "Survival Guide" booklet. The booklet may additionally contain a nutritional guide, hygiene and safety requirements and skill guides. |

| |
|---|
| Unit No: 2 |
| Title: Windows of opportunity |
| Duration: 10 weeks |
| Area of study: Information and communications |
| Design specialisation: Information systems design |
| Technologies: Information technologies |
| Description of design project: Design, create and present a multimedia presentation that depicts the individual student's achievements at Hunter School of the Performing Arts. Students will be required to: <ul style="list-style-type: none">• Apply a range of software programs.• Use a variety of input and output devices.• Utilise this presentation as a platform for authentic assessment. |

| |
|---|
| Unit No: 3 |
| Title: Think outside the box |
| Duration: 10 weeks |
| Area of study: Products |
| Design specialisation: Industrial design |
| Technologies: Timber technologies |
| Description of design project: Design and manufacture a decorative timber container that can be used to store mementos and keep sakes. Students will be required to: <ul style="list-style-type: none">▪ consider the aesthetics, function and material properties that impact on its development. |



| |
|--|
| Unit No: 4 |
| Title: The crown jewels |
| Duration: 10 weeks |
| Area of study: Products |
| Design specialisation: Jewellery design |
| Technologies: Polymer technologies |
| Description of design project: Design, produce and present a collection of jewellery manufactured from a range of polymer materials. Students will be required to: <ul style="list-style-type: none">• Identify and experiment with a range of polymer materials• Develop a unifying design theme• Select and correctly apply polymer tools• Present finished ensemble to maximum effect |

| |
|---|
| Unit No: 5 |
| Title: SiteMaster |
| Duration: 10 weeks |
| Area of study: Information and communications |
| Design specialisation: Promotional design |
| Technologies: Media technologies |
| Description of design project: Design and create a web site that promotes Hunter School of the Performing Arts as the school of choice for performing artists in regional NSW. Students will be required to: <ul style="list-style-type: none">• Conduct research into the nature and application of web sites.• Apply the principles of effective design when constructing a web site. |

| |
|--|
| Unit No: 6 |
| Title: Backyard Bitz |
| Duration: 10 weeks |
| Area of study: Built environments |
| Design specialisation: Landscape design |
| Technologies: Mixed material technologies |
| Description of design project: Students are to design an item or article to enhance their own built environment. Students will create an outdoor house plan and then focus on a single design aspect (such as a veranda, pot plant garden, lawn design, recreational areas, and fencing plans). This aspect will then be the focus of the student's practical skill development. |



| |
|--|
| Unit No.: 7 |
| Title: Ebb and flow |
| Duration: 10 weeks |
| Area of study: Built environments |
| Design specialisation: Environmental design |
| Technologies: Model-making technologies |
| Description of design project: Design an efficient food production area for a design and technology food laboratory which emphasises efficiency, safety, health and hygiene. Students will be required to: <ul style="list-style-type: none">Analyse workflow within a food preparation environmentBecome familiar with the principles of Occupational Health and SafetyExamine the characteristics and properties of model-making and systematic planning for model development. |

| |
|--|
| Unit No: 8 |
| Title: Sew what! It's my room! |
| Duration: 10 weeks |
| Area of study: Built environments |
| Design specialisation: Interior design |
| Technologies: Textiles technologies |
| Description of design project: Students will “deconstruct” their own personal bedroom space and analyse design aspects to recreate an aesthetically pleasing and individually functional interior design plan. To encapsulate the individuality of their overall room plan students will use a range of developing textiles skills to produce a “reflection of self” textile poster. |