

COURSE DETAILS – 4 DAYS 4D0307

TITLE: PATE DE VERRE AND CASTING IN GLASS

TUTOR: KATRINA BEATTIE

LEVEL: INTERMEDIATE/ADVANCED

AIMS OF COURSE:

To use Pate De Verre glass and explore mould making techniques using clay and wax models. The models will be cast into plaster moulds to form a Pate De Verre glass panel and vessel forms.

WHAT STUDENTS SHOULD ACHIEVE:

- Make colour frit test samples with inclusions and varying colour intensity.
- Create clay and wax models to be cast into plaster moulds and learn mould making techniques.
- Make a flat fusing and slump afterwards, a low relief glass panel, a shallow vessel and a sculpture or elaborate bowl using lost wax technique.
- Learn how to remove the glass from the mould.
- Gain knowledge of Pate De Verre kiln firing programmes, on compatibility and annealing and glass finishing processes.

MATERIALS AND TECHNIQUES COVERED:

- Bullseye frits and powders.
- Model making using clay, wax and gelflex.
- Mould making with plaster and flint.

TEACHING METHOD:

- The same project for all students, working to your own designs.
- Discussion and demonstration of techniques.
- Individual tuition.

EVENING SESSIONS:

First evening session – attendance is an essential part of the course:

- Introduction and Health & Safety.
- What is Pate De Verre?
- Show examples of what we will be making during the course.
- Design element: Draw out designs for 3 models.

GENERAL TIMETABLE:

Day 1:

- Introduction to mould making techniques.
- Demo: How to make clay models.
- Make clay models
 - Model 1 – slumping mould shape for flat fusing.
 - Model 2 – low relief panel.
 - Model 3 – shallow vessel shape.
- Demonstration of how to cast models into plaster moulds.
- Cottle up models 1, 2 & 3 and cast moulds.
- Remove cottling and clean moulds.
- Leave moulds 1, 2 & 3 to dry out.
- Make glass frit colour samples with inclusions in pre bought moulds exploring colour intensity gradients.
- Kiln on – full fuse colour samples.

Day 2:

- Empty kiln remove glass from the mould and discuss sample results.
- Frit preparation (crushing, sieving, mixing colours and adding glue).
- Make Pate De Verre (a paste of glass).
- Apply Pate De Verre to moulds 1, 2 & 3.
- Pack vessel mould with recycled mould materials to stop glass collapsing.
- Introduction to wax demo model 4 – small 2D wax shapes, carving, modelling.
- Design element: model 4 sculpture or elaborate vessel.
- Kiln on to fuse moulds 1, 2 & 3.

Day 3:

- Demo lost wax casting.
- Demo Gelflex moulds.
- Making lost wax model 4.
- Clottle up model 4.
- Cast lost wax into a mould.
- Remove cottle and clean mould.
- Steam out wax core.
- Leave mould to dry out.
- Empty kiln: remove glass from the moulds 1, 2 & 3.
- Kiln on: Slump glass from mould 1 into a pre bought slumping mould.

Day 4:

- Finish lost wax mould and steaming out.
- Load lost wax mould with Pate De Verre glass.
- If necessary pack mould with recycled mould material to stop glass collapsing.
- Glass finishing processes.
- Kiln firing schedules (Tac fusing and full fusing).
- Compatibility and annealing information.
- Leave to dry/Kiln on to fuse lost wax castings.

STUDENT PREPARATION FOR COURSE IF ANY:

- Bring inspiration for low relief panel eg: 2D pattern.
- Bring inspiration for a vessel shape eg: unusual simple form.
- Bring inspiration for sculpture or elaborate vessel.
- Bring items to press into clay eg: shells, plants, plastic toys.

HEALTH AND SAFETY:

The tutor instructs students in health and safety issues relevant to this course. Please note that tutor supervision is required at all times when students work in this workshop. All Personal Protection Equipment, apart from footwear, is provided by the College.

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MATERIALS FOR THE COURSE:

PLEASE REMEMBER THAT ON PRACTICAL COURSES YOU MAY WELL NEED TO PURCHASE MATERIALS THROUGHOUT THE COURSE TO COMPLETE PROJECTS

Included in the non-residential fee for this course is: materials shared amongst the group.

These items will be available for purchase in the College Shop:

General art materials

Please bring any of the above, if you have them, and in addition:

Plastic carrier bags without a lot of colour (tescos)

Old tooth brushes

Apron

PLEASE WEAR OLD CLOTHES

COURSE TIMETABLE (unless otherwise stated or agreed with the tutor during the course)

Course timetable for 2–9 day courses – each course starts with a welcome session on the first evening of the start date of the course and is followed by 2–9 days depending on the length of the course.

Arrival Day	From 4.00pm 7.00 8.15–9.15	Arrival for residential students. Non-residential students please arrive by 6.45pm for welcome chat and dinner. Dinner. First teaching session.
Daily Timetable	9.15am 10.30 12.45pm 2.00pm 3.30 5.00 7.00 8.15	Morning classes. Coffee. Lunch. Afternoon classes. Tea. Classes finish. Dinner. Evening working – students may have evening access to certain workshops in the absence of their tutor, but only with their tutor's permission and provided it is safe to do so.
Departure – last day	10.00am 3.00pm 3.30	Residential students are asked to vacate rooms. Classes finish. Tea then departure.