

# **HSTO3004: Cells and Development: Practical (Adv)**

## **Course Reference Text Book**

**Developmental Biology (Eighth Edition). 2006. Scott F. Gilbert. Sinauer Publishers**

## **Assessment**

**For each student,**

\***50%** of the final course mark will be based on the Exam and the other

\***50%** of the mark will be based on Practical Assignments.

### **Exam**

End of Semester: **1 Theory Paper** (1 hour duration)

(Format: Short answer questions and short essays).

### **Practical Assignments**

Each component of the course will be accompanied by a Practical Assignment.

There are 5 main components to the course:

Spermatogenesis, Oogenesis, and Fertilization (1 week)

Cleavage to Gastrulation (1.5 weeks)

Gastrulation and Body Plan (1 week)

Gene Expression and Differentiation (4.5 weeks)

Cell and Tissue Interactions (3 weeks)

The weight of assessment for each of these components will depend on their duration during the semester.

*(eg., as “Cell and Tissue Interactions” covers 3 weeks, the final marks allocated to this component will be worth 3x that of “Gastrulation and Body Plan” which covers only 1 week).*

### Course Evaluation

As of 2006, this 6 Unit course evolved from a 12 Unit of Study entitled ANAT3002: Cells and Development. As student contact was now more restricted, A Theory based course (HSTO3003) and a Practical based course (HSTO3004) emerged.

Near the completion of the year, students are requested to volunteer feedback on different aspects of the course. As there is no student feedback pertaining to these 2 new courses, some feedback and points of clarification raised in ANAT3002 are considered below.

Part of the course is run at Westmead (both at the Children's Medical Research Institute and the Children's Hospital). Although some students are initially concerned with the additional travel, most of the class agreed that the research experience at Westmead was very well worth it. We hope you do as well.

The course description strongly recommends completion of Intermediate MBLG. This is due the fact that much of today's biomedical research routinely utilises molecular biology techniques. Although some of the students had the appropriate background, those that did not, found it a little challenging to keep up. We have introduced some basic introductory lectures on recombinant DNA work and have made MBLG a pre-requisite.

Although the course is evaluated at the completion of every year, I would strongly encourage you to provide me with feedback at any stage of the course. If it is feasible to act on this feedback immediately, I will endeavour to do so.

Enjoy your semester. I very much look forward to getting to know you all.

#### **Dr. Frank J. Lovicu**

HSTO3003/HSTO3004

Course Coordinator

Rm S252 (Anderson Stuart Building, F13)

9351 5170

[lovicu@anatomy.usyd.edu.au](mailto:lovicu@anatomy.usyd.edu.au)

#### Westmead Contact

#### **Dr. Geraldine O'Neill**

Oncology Research Unit

Childrens' Hospital at Westmead

9845 3116

[GeraldO@chw.edu.au](mailto:GeraldO@chw.edu.au)