Cellular engineering is the use of engineering methodologies to characterize cellular behavior and the rational modification of cells to become part of systems that solve biomedical problems.

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READING MATERIALS

Required
Papers, course notes, updates and information about the lectures and evaluations can be found on the blackboard web site. You will also need an active ecf account to access software required for the labs.

Recommended
EVALUATION

Five mini-quizzes for a total of 10%

The mini-quizzes will consist of a few questions on specific papers. Students who miss the quizzes because of illness will have to provide a note from their physician. There will be no make up quizzes. See course schedule.

Short presentation (oral) 10%:

Oral: 10 min slide presentation (8 min + 2 min for questions). Hand in slides (~5 slides, excluding cover, outline and acknowledgements). Slides should be emailed to Prof. Radisic by Nov 23, 11:59pm. Presentation will take place from Nov 24th to Dec 05th.

Lab experiments for a total of 20% (EF lab=10% and two others are 5% each).

The EF lab has four parts. The description of the contents of the final report is included in the lab protocol. The final report should include all the work and documents that you have produced for this lab, even if they have previously been handed in.

For the other lab reports (CA and TE or CC), you will hand in only lab results i.e. figures and/or tables (with titles and legend) and include a page summarizing the main conclusions that can be derived from your results (can be point form). It is important that your results support your claims.

Plagiarism is not tolerated (0% for a particular lab + a note sent to your home department) and students who arrive late (>15 min) more than once will have 2% deducted from their overall lab mark each time it happens. See lab schedule.

In class midterm: 25%

Two in-class midterms, held on Oct 6 and Oct 20 (both from 11AM-12 PM, BA3012). Students who miss a mid-term because of illness will have to provide a note from their physician. Note that in that case the weight of the midterm will not be transferred to the final exam.

Final Exam 35%

A final exam – covering all aspects of the course, including the tutorials, student presentations and the laboratory exercises, will be held during the December exam period.

MARK REVISIONS: Students have a maximum of two weeks after the midterm, a quiz or a lab report is handed out to ask for re-mark or revisions. All the scores (except for the final exam) will be posted on Blackboard by Dec 7. Students have until Dec 12 to check the accuracy of the score posted (lab, quizzes, midterm). After that date, requests for revisions must be directed to the Registrar’s office.