



CUMMING SCHOOL OF MEDICINE  
GRADUATE COURSE OUTLINE

<b>COURSE TITLE: Finances in Biomedical Technology</b>			
<b>Course</b>	MDGE 604		
<b>Pre/Co-Requisites</b>	No defined pre-requisites or co-requisites. All students must be registered in the MBT graduate program, or have special permission from the Course Coordinator.		
<b>Faculty</b>	Cumming School of Medicine, Graduate Science Education		
<b>Instructor Name(s)</b>	Peggy L. Hedges	<b>Email</b>	hedges@ucalgary.ca
<b>Office Location</b>	SH 144	<b>Office Hours</b>	By appointment
<b>Instructor Email Policy</b>	Under normal circumstances, I will respond to emails within two business days.		
<b>Telephone No.</b>	403 220 3353		
<b>Class Term, Days</b>	Fall 2019, MWF		
<b>Class Times</b>	MW 14:30 – 16:20, F 13:00 – 14:50		
<b>Class Location</b>	HS G801E		

<b>COURSE INFORMATION/DESCRIPTION OF THE COURSE</b>
<p>We will explore how the financial community views and values biotechnology business opportunities.</p> <p>Handling the financial side of the business requires both an understanding of concepts and the skills to do the analysis. This module will help students understand some of the issues surrounding the investment process and to be better prepared when interacting with potential investors.</p> <p>We will learn how to read and analyze financial statements, estimate and forecast cash flows, and value investment and financing proposals. The pedagogical approach used is to learn by doing. This is a very busy course. The course consists of cases, lectures, exercises and examinations. You will have deliverables nearly every meeting.</p>
<b>LEARNING RESOURCES/REQUIRED READING</b>
<p>Required readings, pre-readings (PR), slide decks, various practice problems, and cases are posted on D2L.</p>

<b>COURSE OBJECTIVES/LEARNING OUTCOMES</b>
<p>The objective of the course is not to make you a financial specialist. The emphasis is on understanding the financial issues and options available and learning only the most basic analytical tools for dealing with them. The three financial implications on which we will spend our time are: profitability, financing needs, and risk.</p>

CUT POINTS FOR GRADES			
This course adheres to the grading system outlined in the University of Calgary, Faculty of Graduate Studies Calendar. Grades of A+ and A are not distinguished in the calculation of GPAs. Percentage/letter grade conversion used for this course is as follows			
Grade	Grade Point Value	Percentage Conversion	Graduate Description
A+	4.00	95-100	Outstanding
A	4.00	90-94	Excellent – superior performance showing comprehensive understanding of the subject matter
A-	3.70	85-89	Very Good Performance
B+	3.30	77-84	Good Performance
B	3.00	72-76	Satisfactory Performance
B-	2.70	68-71	Minimum Pass for Students in the Faculty of Graduate Studies
C+	2.30	63-67	All grades below ‘B-’ are indicative of failure at the graduate level and cannot be counted toward Faculty of Graduate Studies course requirements

Assessment Components: The University policy on grading related matters is outlined in the <a href="#">2019-2020 Calendar</a> .			
Assessment Methods	Description	Weight %	Due Date and Time
Take-home midterm	TVM	25%	W 19/11/06 14:30
Case write-ups	Purinex (A)	10%	W 19/10/30 14:30
	AM-Pharma (A&B)	10%	M 19/11/04 14:30
	Purinex (B)	10%	F 19/11/08 13:00
In-class exercises	Financial statements	5%	M 19/10/28 in class
	Angel Investor with an Agenda	5%	M 19/10/28 in class
	Forecasting	5%	W 19/10/30 in class
	TVM	5%	F 19/11/01 in class
	Risk/return/cost of capital	10%	M 19/11/04 in class
	Relative value	5%	F 19/11/08 in class
Final exam	Comprehensive	10%	W 19/11/18 in class

ASSESSMENT AND EVALUATION INFORMATION
<p><b>ATTENDANCE AND PARTICIPATION EXPECTATIONS:</b> Each class period has at least one graded in-class assignment/exercise. You may be asked to complete these individually or as a group.</p> <p>There are no grades for class participation but constructive involvement and contribution to class discussion is encouraged. In the future, you will need to be able to converse with potential investors and management.</p>



**GUIDELINES FOR SUBMITTING ASSIGNMENTS:** Assignments, midterm, and case write-ups are due at the beginning of class, hard copy. Take home midterm may be handwritten. **DO NOT ATTACH A COVER PAGE.**

**FINAL EXAMINATION:** Comprehensive, details for preparation will be given in the last two class session.

**EXPECTATIONS FOR WRITING:** There is no writing proficiency expectations other than that you can get your point across clearly. Good grammar is expected.

**LATE AND/OR MISSING ASSIGNMENTS:** Assignments, midterm, and case write-ups are due at the beginning of class, hard copy. Late submissions will not be accepted in the absence of a medical emergency or family justification. Arrangements to hand your assignments in early for planned absences may be made.

**A passing grade on a particular component IS NOT essential to pass the course as a whole.**

COURSE TIMETABLE				
Course Schedule Date	Time	Topic	Materials	Deliverables
M – Oct 28	14:30-16:20	Financial Statements & Forecasting	Chapter 1, Module 1 PR & ppts Reading - Angel Investor with an Agenda	In class exercise (5%) Exercise based on readings (5%)
W – Oct 30	14:30-16:20	Case discussion Financial Analysis Time Value of Money (TVM)	Module 1 ppts 'ctd Module 2 PR & ppts	Purinex (A) - case write-up due (10%) In class exercise (5%)
F – Nov 1	13:00-14:50	TVM	Module 2 PR & ppts 'ctd	In class exercise (5%)
M – Nov 4	14:30-16:20	Case discussion Risk/Return Cost of Capital	Module 3 PR & ppts	AM-Pharma (A&B) - case write-up due (10%) In class exercise (10%)
W – Nov 6	14:30-16:20	Project Valuation/VC	Note on valuing a biotech Module 4 PR & ppts	Take home midterm due (25%)
F – Nov 8	13:00-14:50	Case discussions Purinex Angel Investor with an Agenda AM-Pharma (C)		Purinex (B) - case write-up due (10%)  In class exercise (5%)
W – Nov 18	14:30-16:00	Final Exam	Comprehensive	Final exam (10%)



## INTERNET AND ELECTRONIC COMMUNICATION DEVICE INFORMATION

Cell phones must be turned off in class unless otherwise arranged with the instructor.

The use of laptop and mobile devices is acceptable when used in a manner appropriate to the course and classroom activities. Students are to refrain from accessing websites that may be distracting for fellow learners (e.g. personal emails, Facebook, YouTube). Students are responsible for being aware of the University's Internet and email use policy, which can be found at <https://www.ucalgary.ca/policies/files/policies/electronic-communicationspolicy.pdf>.

## MEDIA AND RECORDING IN LEARNING ENVIRONMENTS

### **Media recording for lesson capture**

The instructor may use media recordings to capture the delivery of a lecture. These recordings are intended to be used for lecture capture only and will not be used for any other purpose. Although the recording device will be fixed on the Instructor, in the event that incidental student participation is recorded, the instructor will ensure that any identifiable content (video or audio) is masked, or will seek consent to include the identifiable student content to making the content available on University approved platforms.

### **Media recording for assessment of student learning**

The instructor may use media recordings as part of the assessment of students. This may include but is not limited to classroom discussions, presentations, clinical practice, or skills testing that occur during the course. These recordings will be used for student assessment purposes only and will not be shared or used for any other purpose.

### **Media recording for self-assessment of teaching practices**

The instructor may use media recordings as a tool for self-assessment of their teaching practices. Although the recording device will be fixed on the instructor, it is possible that student participation in the course may be inadvertently captured. These recordings will be used for instructor self-assessment only and will not be used for any other purpose.

### **Student Recording of Lectures**

Audio or video recording of lectures is prohibited except where explicit permission has been received from the instructor.

## UNIVERSITY OF CALGARY POLICIES AND SUPPORTS

### **ACADEMIC ACCOMMODATIONS**

Students seeking an accommodation based on disability or medical concerns should contact Student Accessibility Services; SAS will process the request and issue letters of accommodation to instructors. For additional information on support services and accommodations for students with disabilities, visit [www.ucalgary.ca/access/](http://www.ucalgary.ca/access/). Students who require an accommodation in relation to their coursework based on a protected ground other than disability should communicate this need in writing to their Instructor. The full policy on Student Accommodations is available at <http://www.ucalgary.ca/policies/files/policies/student-accommodation-policy.pdf>



### **IMPORTANT INFORMATION**

Any research in which students are invited to participate will be explained in class and approved by the appropriate University Research Ethics Board

### **COPYRIGHT**

It is the responsibility of students and professors to ensure that materials they post or distribute to others comply with the Copyright Act and the University's Fair Dealing Guidance for Students ([library.ucalgary.ca/files/library/guidance\\_for\\_students.pdf](http://library.ucalgary.ca/files/library/guidance_for_students.pdf)). Further information for students is available on the Copyright Office web page (<https://library.ucalgary.ca/copyright>)

### **A NOTE REGARDING INSTRUCTOR INTELLECTUAL PROPERTY**

Generally speaking, course materials created by professor(s) (including course outlines, presentations and posted notes, labs, case studies, assignments and exams) remain the intellectual property of the professor (s). These materials may NOT be reproduced, redistributed or copied without the explicit consent of the professor. The posting of course materials to third party websites such as note-sharing sites without permission is prohibited. Sharing of extracts of these course materials with other students enrolled in the course *at the same time* may be allowed under fair dealing

### **ACADEMIC INTEGRITY**

The Cumming School of Medicine expects intellectual honesty from its students. Course participants should be aware of University policies relating to Principles of Conduct, Plagiarism and Academic Integrity. These are found in the printed Faculty of Graduate Studies Calendar, or online under Academic Regulations in the Faculty of Graduate Studies Calendar, available at [Faculty of Graduate Studies Academic Regulations](#)

### **ACADEMIC MISCONDUCT**

For information on academic misconduct and its consequences, please see the University of Calgary Calendar at <http://www.ucalgary.ca/pubs/calendar/current/k.html>

### **EMERGENCY EVACUATION AND ASSEMBLY POINTS**

Assembly points for emergencies have been identified across campus. The primary assembly points for South Campus (Health Science Centre (HSC); Health & Research Innovation Centre (HRIC); Heritage Medical Research Building (HMRB) and Teaching, Research and Wellness (TRW)) are:

- HSC and HMRB: HRIC Atrium (alternate assembly point is Parking Lot 6)
- HRIC: HMRB Atrium (alternate assembly point is Parking Lot 6)
- TRW: McCaig Tower (alternate assembly point is HMRB – Atrium)

### **APPEALS**

If there is a concern with the course, academic matter or a grade, first communicate with the instructor. If these concerns cannot be resolved, students can proceed with an academic appeal, as per Section N of the Faculty of Graduate Studies Calendar. Students must follow the official process and should contact the Student Ombuds Office (<http://www.ucalgary.ca/provost/students/ombuds>) for assistance with this and with any other academic concerns, including academic and non-academic misconduct



### **THE FREEDOM OF INFORMATION AND PROTECTION OF PRIVACY (FOIP) ACT**

This course is conducted in accordance with the Freedom of Information and Protection of Privacy Act (FOIP) and students should identify themselves on written assignments (exams and term work.) by their name and ID number on the front page and ID on each subsequent page. Assignments given by you to your course instructor will remain confidential unless otherwise stated before submission. The assignment cannot be returned to anyone else without your expressed permission to the instructor. Grades will be made available on an individual basis and students will not have access to other students' grades without expressed consent. Similarly, any information about yourself that you share with your course instructor will not be given to anyone else without your permission

### **WELLNESS AND MENTAL HEALTH RESOURCES**

The University of Calgary recognizes the pivotal role that student mental health plays in physical health, social connectedness and academic success, and aspires to create a caring and supportive campus community where individuals can freely talk about mental health and receive supports when needed. We encourage you to explore the excellent mental health resources available throughout the university community, such as counselling, self-help resources, peer support or skills-building available through the SU Wellness Centre (Room 370, MacEwan Student Centre), <https://www.ucalgary.ca/wellnesscentre/services/mental-health-services> and the Campus Mental Health Strategy website <https://www.ucalgary.ca/mentalhealth/>

### **SUPPORTS FOR STUDENT LEARNING, SUCCESS, AND SAFETY**

**Student Ombudsman:** The Student Ombuds' Office supports and provides a safe, neutral space for students. For more information, please visit [www.ucalgary.ca/ombuds/](http://www.ucalgary.ca/ombuds/) or email [ombuds@ucalgary.ca](mailto:ombuds@ucalgary.ca)

**Student Union:** The SU Vice-President Academic can be reached at (403) 220-3911 or [suvpaca@ucalgary.ca](mailto:suvpaca@ucalgary.ca); Information about the SU, including elected Faculty Representatives can be found here: <https://www.su.ucalgary.ca>

**Graduate Student's Association:** The GSA Vice-President Academic can be reached at (403) 220- 5997 or [gsa.vpa@ucalgary.ca](mailto:gsa.vpa@ucalgary.ca); Information about the GSA can be found here: <https://gsa.ucalgary.ca>

### **SAFEWALK**

Campus security will escort individuals, day or night, anywhere on campus (including McMahon Stadium, Health Sciences Centre, Student Family Housing, the Alberta Children's Hospital and the University LRT station). Call 403-220-5333 or visit <http://www.ucalgary.ca/security/safewalk>. Use any campus phone, emergency phone or the yellow phone located at most parking lot pay booths. Please ensure your personal safety by taking advantage of this service.