

Business Strategy and Intrapreneurship

Course: [APS1061H](#), Summer 2023

Instructor: Professor [Steve Treiber](#)

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See his Bio at the end of this document.

Course taught in Dual Mode: WB219

In-person and ZOOM simultaneously on-line

Dual classes: May 1-5, May 15-19, May 26, 2023, 6pm-9pm.

Meetings with Professor Treiber to be scheduled on request.

COURSE DESCRIPTION

Overview:

[APS1061H](#) is designed for engineering students interested in discovering if they have the aptitude and appetite to lead a large business. Every successful business executive and entrepreneur will encounter complex business problems they urgently must solve. The short course format simulates the speed with which such real-world problems can arise and the speed with which they must be solved. Covid19, the 2008 financial crash, and 9/11 are examples of extreme events that can destroy a business quickly. Leveraging some of the problem-solving skills, you have learned during your engineering education, this course teaches how to define, solve, communicate, and sell the solution to a complex business problem using an engineering approach.

Challenge Business Problem:

Students will work in groups of 2 to 3 and all groups will develop a solution to the challenge business problem. The groups will be given a package of materials that identifies the problem in the first session and all groups will come up with their own definition and solution during the course. This year the challenge business problem will be: [Facebook](#) is transforming itself to META Platforms a new venture to expand the internet to a three dimensional space. After failing to launch [Calibra/DIEM and the Libra/DIEM blockchain](#), Facebook is pushing forward. Facebook is facing a number of challenges including skittish partners, regulatory and Congressional resistance who BIG tech's power and they seem to have picked Facebook as the weakest link. Covid19 could be a threat or an opportunity. Our objective is to develop a business strategy and plan that will make this business successful.

The core tool that we will use for expressing the business problem, solution and plan is the [Business Model Canvas](#) of Alex Osterwalder with a focus on how this methodology aligns with existing engineering problem solving skills. The tool kit, including the [Value Proposition Canvas](#), and [The Pitch Canvas](#) are, defined in the course notes developed by entrepreneurial engineers during their careers developing their own successful technology start-ups.

The Business Model Canvas tool will be supplemented by a student developed cash flow projection to complete the course project report as a summary business plan.

GUEST SPEAKERS

Invited industry speakers are experts in their field who are currently working to solve elements of the

challenge problem for their companies. They will speak from the point of view of the disruptors and the disrupted.

Taking Notes:

All of the lecture notes used in live-sessions are available to you on your Quercus course website. We provide the entire lecture series' notes and handouts used so that you will not need to take detailed notes. Lectures and guest speaker sessions will be recorded and available to students enrolled in the course after they are given live. Live sessions give students the opportunity to collaborate with the Professor, guest speakers and each other on the subject at hand.

Recommended Reading:

[Facebook's Metaverse](#)

[Lamina1 Whitepaper](#)

[The DIEM Blockchain](#)

Hurdle: The Book of Business Planning

Tim Berry, Palo Alto Software, ISBN 0-9712185-0-1

Details

The course is on Quercus, so you should sign in as soon as possible and read the handouts. We will post on Quercus all handouts as the course unfolds on the dates shown in this document so visit often.

Individual Student Assignment

Watch the Video Quick Quiz

All course lectures are pre-recorded. The quick quiz will test your understanding of the lecture material in lectures 1,2,4,5,& 6. Each quiz is true/false and worth one(1%) mark.

Business Press Review(BPR)

As part of your live-sessions participation mark each student is expected to read an appropriate article from a reliable business publication (Globe and Mail ROB, National Post – Financial Section, Financial Times, Canadian Business, etc.) and submit a written *half page* report. A number of relevant articles are posted in Quercus under the page titles Market Research.

Submit your report by midnight of the day *before the morning live-sessions on which it is due*. Submit on Quercus and do not forget to reference the article you are reporting on.

Your report should be about economic, political or personal issues *affecting our subject businesses*. These may be: a drop (or rise) in interest rates; recently released trade figures; import/export news; currency issues; government actions; approvals of financing; bankruptcies; tax matters, entrepreneurs, success stories, etc., etc. We expect you to write a thoughtful report on what you learned from reading the article, not a précis of the article.

Each Business Press Review Assignment is worth 2%. At the start of each class after a BRP was due three or four students will be called upon to talk about their BPR. If you are called upon and are not present you will get zero(0) for the assignment.

*These reports are the start of your **Market Research Assignment**.*

Student Team Assignments

All work associated with developing the business plan will be done in teams. Students will be organized into teams of two or three students during the first, organizing class. All team assignments will be marked as a team mark.

Value Proposition Canvas Assignment

The Value proposition tool will help you focus your attention on two key parts of your market research of any successful business, the customer segment being served and the value proposition that you offer to them. This assignment is step toward the completion of the market research assignment and the Business Model Canvas assignment.

Market Research Assignment

Market Research is the essential ingredient required to understand whether or not your business solution is likely to be successful. This assignment was designed to help you get started on the Market Research portion of your Business Plan.

During the session at which this assignment is due each team will make a brief(up to five minute) presentation about their market research. The objective of market research at this stage is to determine if there is a feasible business solution to the identified problem.

The Business Model Canvas

The business canvas is a tool that will help you define your business problem and its business model. We want to define a business model and how your business solution creates value for the customers and for the business. During this course you will have the unique opportunity to develop the different sections of the canvas and use them as the building blocks to create your final Business Plan. The term project is a Business Plan and it is intended to give you "hands on" experience in developing a document that is absolutely essential if you ever get into business for yourself.

Final Business Plan

The creation of your business plan will be an organic process once you have completed all the elements of your business model canvas. The comments you receive on your Progress Reports will guide you to validate your hypothesis and value proposition. There is also a lot of help available on the Internet, so please feel free to use any/all such assistance – but make sure you give credit by citing your sources. In addition to the canvas a financial cash flow projection for the business plan is required.

ASSIGNMENT DUE DATES

	Report or Assignment	Due
1.	Value Proposition Canvas Assignment+Presentation	May 13
2.	Market Research Assignment+Presentation	May 17
4.	Final Business Plan + Presentation	May 25

Please respect the fact that these dates are firm. There will be a 40% discount on the mark if an assignment is handed in late, but we will not accept assignments handed in after we have returned that marked assignment to the class and you will get ZERO for that assignment.

MARKING SCHEME

Class Participation (Business Press reviews) – 10%

Watch the Video Quiz – 5%

Value Proposition Canvas Assignment/Presentation – 25%

Market Research Assignment/Presentation – 25%

Final Business Plan/Presentation – 30%

WHY TAKE THIS COURSE

APS1061H is designed to let engineering students learn the necessary skills for success in business and discover if they have the appetite to become successful business leader. This [video will](#) explain the core of the problem we will tackle in this course.

In today's economy the most successful people are those who have entrepreneurial skills. In fact today organizations actively search for intrapreneurs (an entrepreneurial individual who prefers to work within a larger firm rather than start their own). In order to succeed in entrepreneurial/intrapreneurial endeavor it is important to understand what differentiates entrepreneurs from all others.

All but two key entrepreneurial skills for success can be learned and we teach those here. The two skills that cannot be learned are accepting unavoidable RISK and PASSION for what you do. The difference between successful entrepreneurs and intrapreneurs is that entrepreneurs have more willingness to accept RISK than intrapreneurs. This course will help students assess their own aptitude for these skills.

Our approach to teaching this course is based on real-life business experiences and years of successful practice of "what we preach." The course contains very little theoretical material or academic approaches. It is designed to familiarize you with the kinds of opportunities (problems) likely to be encountered in an entrepreneurial career.

2022 SUMMER SCHEDULE

APS1061H

<u>Week</u>	<u>Date</u>	<u>Text-Chapter</u>	<u>Topics</u> <u>Milestones</u>	<u>Assignments & Project</u>
1	May 1		Organizational session, group formation	
2	May 2	1 + 2 handouts	The Business Model Canvas Business Planning and the Business Model Canvas - Introduction - The Business Model Canvas – its role and value	
3	May 3	5	Guest Speaker Business Plan and the Challenge Business Problem - Business Canvas/Plan - Business Idea Brainstorming - Business Challenge Idea	
4	May 4	6 +notes	Guest Speaker Market Research - How to define a business problem <i>Market Research Assignment handed out</i>	
5	May 5		Guest Speaker The Value Proposition Canvas Defining the Challenge problem opportunity	
	ONE WEEK	BREAK		
6	May 15	7 and 8	Sales & Marketing Strategies <i>Market Research</i> - Value Proposition & the Value Chain Value Proposition Canvas Presentations	
			Guest Speaker	
7	May 16	7 and 8	Financial Analysis - What you need for a business plan	
			Guest Speaker	
8	May 17	A13, 14	Business Canvas Workshop	
9	May 18		The BMC and BP Assignment Market Research Presentations	
10	May 19		The Pitch Canvas	
	ONE WK BRK			
11	May 26		Business Plan Presentation/Business Canvas Financial Plan	

Resumé

Steven Treiber, Ph.D., P.Eng

Steve Treiber was born in a refugee camp in post-world war II Europe and emmigrated to Canada as a child with his parents. His background gave him a perspective on success that is common to recent immigrants to Canada and provided a unique advantage in entrepreneurial endeavour. He brings that experience and point of view to teaching.

Steve has always had an interest in business. He spent most of his under-graduate years at McGill Engineering working in his father's corner grocery store after class. Although he started out working for others, he always had an eye on "doing his own thing" – and he did that after just 7 years in the corporate world. So, in 1984, after an engineering career in the pulp and paper and oil industries with Scott Paper and Shell Oil, respectively, he started his own software and engineering firm in Toronto and later Houston, TX. Treiber Controls Inc. developed process control and real-time optimisation software and applications for the oil, petrochemical, pulp and paper and other process industries. In 1998 he sold his company to a NASDAQ listed competitor, Aspen Technologies, and served in various senior management roles.

He left Aspen in 2002 to launch a new business start-up – the entrepreneurial drive was still there. He continues to work with technology start-up companies to apply his knowledge and experience in engineering and business. He is now President of [Manufacturing Technology Network, Inc.](#)

After receiving a Bachelor of Engineering from McGill University he volunteered to work as a high school teacher in Uganda from 1969-1971. He also holds a Master of Applied Science from the University of Toronto, and a PhD from McGill University, all in Chemical Engineering. He has published over 40 papers in the fields of process control and optimisation, and is an author of 6 patents in the same field. See his profile on [linkedin](#).