The Interprofessional Projects Program at Illinois Institute of Technology
IPRO 397 Interprofessional by Design
Fall 2012 Syllabus

Learning Goals: This class will teach you a process for problem solving as part of interprofessional projects. You will go on to use this process as part of IPRO 497, as well as for any complex, non-deterministic (meaning there is more than one potential answer and there is no formula to use) problem you will encounter in your career. This process is unique to the IIT IPRO program – your ability to apply it will distinguish you from graduates of other universities.

Class Structure: Students will be organized into 10 teams of 5 students each. Students will stay in the same team for the entire semester. There will be 5 pods – consisting of two teams and one instructor (you will interact with several each of the instructors throughout the term).

Class Meeting Information

IPRO 397-01 Thursdays 3:15 PM to 5:55 PM
IPRO 397-02 Fridays 9:00 AM to 11:40 AM

Meeting Location

The Idea Shop at University Technology Park
Technology Business Center (TBC)
3440 South Dearborn Street
Lower Level, Suite 050

Credit-Hours

Three credit-hours will be granted on successful completion of the IPRO 397 course requirements in fulfillment of one of the IPRO general education requirements.

Grading

Deliverables
- IRB training ~ 5 points
- Name tent ~ 10 points
- Social Innovation: high level project proposal ~ 20 points
- Business opportunity assessment PPT presentation ~ 20 points
- Business opportunity assessment poster ~ 20 points
- Business opportunity assessment prototype ~ 10 points
- Peer reviews ~ 20 points
- Weekly assignments ~ 30 points
- Team engagement ~ 20 points

Attendance Policy

Class attendance is mandatory. Students are expected to inform the IPRO 397 instructor of a necessary, anticipated, planned absence at least one week in advance. Attendance is taken at the very beginning of each class session. Points are deducted for each absence.

Academic Honesty

Cheating, in any form, will not be tolerated in this class. This includes dishonesty on examinations, presenting someone else's ideas or writing as your own without appropriate citations (plagiarism), or knowingly furnishing false information to the university. The full Academic Honesty Code is detailed in the IIT Student Handbook. If you are involved in academic misconduct, you will receive a grade of F on the project for the class, and/or referral to the Director of Judiciaries with the possible sanctions of expulsion or suspension.

Disability

Reasonable accommodations will be made for students with documented disabilities. In order to receive accommodations, students must obtain a letter of accommodation from the Center for Disability Resources and make an appointment to speak with us as soon as possible. The Center for Disability Resources (CDR) is located in Life Sciences Room 218, and can be reached at 312-567-5744 or disabilities@iit.edu.

Instructor Team Contact Information

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In this class you will work on three projects:

- **XS -- Extra Small Project (week 1)** ~ you will create a name tent for one of your colleagues. This will be an in class activity.
- **M -- Medium Project (weeks 2 – 4)** ~ you will work with your team on a social innovation project. The goal of this short exercise is to deliver a high-level project proposal for a future IPRO class. You will not produce a full proposal, but rather a project brief. The winning project brief (as judged by the sponsor) will then move into full proposal development with the support of the IPRO faculty. The topic for this project will be selected by the project sponsor –
- **XL -- Extra Large Project (weeks 5 – 14)** ~ you will work with your team to create a new product or service. You will be expected to create a business opportunity assessment and prototype for this product or service. These products / services will be judged by a committee of entrepreneurs / angel investors. The ideas should be viable business opportunities.

(M -- Medium Project) Social Innovation: High Level Project Proposal

You will present your proposal to a set of judges from the funding organization. The deliverable is a combination of your oral presentation and the PPT document. The general structure of the presentation should include the following content areas:

What problem do you want to solve?
- Users / stakeholders: who is primarily affected by the problem? You can include several groups of people, but be as specific as possible.
- Gap(s): what are the unmet needs, or differences between what is expected (or desired, or ideal) and reality?

Why is it important to solve this problem?
- Real: evidence that this problem exists – what facts demonstrate that this problem is real?
- Significant: are a large number of people critically affected by the problem?
- Unsolved: how have others tried to address the problem, why are these solutions insufficient and where do they fall short?

Why can we solve this problem?
- Distinctive insight: what new understanding/insight or different point of view about the problem will make our solution distinctive?
- IPRO team: what capabilities and disciplines will work on the project, and what role will they play?

(XL -- Extra Large Project) New Product or Service

There are three elements to this deliverable: a presentation (oral presentation plus the PPT document) on IPRO day, plus a poster and physical (tangible) prototype. We will not provide a topic area; your team will need to generate the concept. You will need to make an argument that your concept is desirable, viable, and possible.
- User value (desirable): what value will this concept create for users – how will it solve their unmet needs
- Business value (viable): how will this concept create a viable business – how will it create a positive cash flow, be differentiated from existing products, and remain competitive over time?
- Technical feasibility (possible): why is this concept technically feasible? What existing capabilities and technologies will it leverage?

Class Time and Weekly Assignments

Class time will be primarily for working in your teams. In order to give you this much time to work in class, we will be loading our lectures onto Vimeo. Each week you will be responsible for watching one or two lectures (they will be no more than 20 minutes long) and then answering a small set of reflection questions for each lecture. We will grade each of your responses using a – 0 + system. We will keep a running count for each individual and each team. These assignments will be worth 30 total points (20 individual contribution, 10 team contribution) for weekly assignments

Semester Schedule

Class	Project	In Class	Assignment Due Next Week
1 8/23 8/24	XS	Create a name tent for your colleague – the 2.5 hour exercise will demonstrate the entire process we will teach in IPRO 397. You will learn the basics for each of the steps, as well as how the steps are connected.	Watch video on stages of team development. Answer the three reflection questions. Watch video on the five dysfunctions of a team. Answer three reflective questions.
2 8/30 8/31	M	In class you will be briefed on the social innovation project challenge your team will work on for the next two weeks. Your team will be required to present a project proposal to the sponsors in week 4. The sponsors will pick the winning team – this project will be further developed and passed on to the IPRO selection committee with the chance of becoming a funded IPRO project next semester.	Watch video on Ethics of field research. Complete IRB training
3 9/6 9/7	M	In class you will be provided time to work with your team to prepare your proposal. The proposal will be a set of PPT slides – there is an outline for the slides at the end of this document under "slide outlined for social innovation project proposal". There will be several expert stations – you will be able to sign up for time with each of these experts, including librarians from Galvin who can help you with your literature searches.	Watch video on creating compelling visual presentations. Answer the three reflection questions. Watch video on giving effective oral presentations. Answer the three reflection questions.
4 9/13 9/14	M	The first 45 minutes of class will allow you and your team to practice your presentation. The final 1.5 hours will be a large group presentation, where each team will have 5 minutes to make their project pitch. You will not be allowed to go on for more than 5 minutes. Winning team announced at end of class.	Complete peer evaluation 1 Watch video on project management. Answer the three reflection questions.
5 9/20 9/21	XL	**Develop your project frame:** In this class you will begin the final project for the semester. Your team will create a new product or service (this will include a clear value proposition, business opportunity assessment plan, and a prototype). The first step is to create a project frame, which is simply picking a user group and an associated activity. You will do this in class.	Watch video on ethnographic interviewing. Answer the three reflection questions. Watch video on business / technology research. Answer the three reflection questions.

6 9/27 9/28	XL	**Conduct research:** In this class you will conduct business research, user research, and technology research related to your user / activity area. The staff of the Galvin Library will be available again to help with your project.	Watch video on data analysis. Answer the three reflection questions.
7 10/4 10/5	XL	**Generate insights**: In this class you will generate your business insights, user insights, and technology insights. These insights will help shape your products and services.	Watch video on Point of view. Answer the three reflection questions. Watch video on how might we statements. Answer the three reflection questions.
8 10/11 10/12	XL	**Author a point of view and "How might we" statements**: In this class you will synthesize your insights into a single, driving insight and a point of view. This will help you author HMW statements that will guide concept development.	Watch video on brainstorming. Answer the three reflection questions.
9 10/18 10/19	XL	**Brainstorming:** in this class you will generate a set of potential new products / services based on your point of view and your research.	Watch video on value proposition. Answer the three reflection questions. Watch video on business opportunity assessment. Answer the three reflection questions.
10 10/25 10/26	XL	**Concept review:** in this class you will get feedback from faculty and users on your concepts. Based on the feedback and additional analysis, you will pick the final concept you want to move forward into prototyping.	Watch video on prototyping. Answer the three reflection questions.
11 11/1 11/2	XL	**Prototyping:** in this class you will develop your prototype. There will be a physical component to your prototype (something that potential users can interact with) as well as a spreadsheet component (a financial prototype of your concept).	Prepare final project
12 11/8 11/9	XL	**Prototype review:** in this class you will review your prototypes with users and faculty. You will then make a plan to finish your project for IPRO day.	Prepare final project
13 11/15 11/16	XL	**Leadership perspectives:** we will discuss the key elements of leadership. **IPRO Day prep:** this class reserved for preparing your deliverables for IPRO day.	Prepare final project

14 11/22 11/23		**Thanksgiving Holiday**	
15 11/29 11/30	XL	**11/29 -- IPRO Day prep:** this class reserved for preparing your deliverables for IPRO day. **11/30 -- IPRO Day:** your projects will be judged separately and differently compared to other IPROs. The judges will be determining if you have created a viable entrepreneurial opportunity.	Complete peer evaluation 2
16 TBD	XL	**Recognition awards:** in this class (scheduled during the IPRO 397 finals timeslot) we will announce awards given to the highest performing teams and individuals.	