Project Plan

Developed for the Summer semester, 2009
Information

Creators
IPRO 301 Summer 2009 Team

Professors db@brininstool-lynch.com
ametter@epsteinglobal.com

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Abstract

For years, the IPRO Program at IIT has been forced to operate wherever space can be found. Often, facilities are not equipped for the needs of the program. It has become necessary to find a way to give the IPRO Program its own dedicated space.

If we give the program its own space, then what is needed in that space? What needs to be done with it? What types of spaces are necessary? What technologies will be used?

IPRO 301 exists to answer these questions. We will provide ideas to IIT that can solve these problems.
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Chapter 1

Team Information

1.1 Roster & Specific Information

<table>
<thead>
<tr>
<th>Team Members</th>
<th>Contact Info.</th>
<th>Major/Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ed Scanlon</td>
<td><a href="mailto:escanlo1@iit.edu">escanlo1@iit.edu</a></td>
<td>4th Year CIS</td>
</tr>
<tr>
<td>Philip Brierley</td>
<td><a href="mailto:pbrierle@iit.edu">pbrierle@iit.edu</a></td>
<td>3rd Year BUS</td>
</tr>
<tr>
<td>Mihee Choe</td>
<td><a href="mailto:mchoe1@iit.edu">mchoe1@iit.edu</a></td>
<td>3rd Year Arch</td>
</tr>
<tr>
<td>Joel Cornelius</td>
<td><a href="mailto:jcorneli@iit.edu">jcorneli@iit.edu</a></td>
<td>4th Year CIS</td>
</tr>
<tr>
<td>Kai Hansen</td>
<td><a href="mailto:khansen3@iit.edu">khansen3@iit.edu</a></td>
<td>5th Year Arch</td>
</tr>
<tr>
<td>Gergana Horozova Nalls</td>
<td><a href="mailto:ghorozo@iit.edu">ghorozo@iit.edu</a></td>
<td>5th Year Arch</td>
</tr>
<tr>
<td>Faraz Hussain</td>
<td><a href="mailto:husfar@iit.edu">husfar@iit.edu</a></td>
<td>4th Year Biochem and Biophys</td>
</tr>
<tr>
<td>Kevin Krupp</td>
<td><a href="mailto:kkrupp@iit.edu">kkrupp@iit.edu</a></td>
<td>4th Year Arch</td>
</tr>
<tr>
<td>Alexis Laurence</td>
<td><a href="mailto:alauren1@iit.edu">alauren1@iit.edu</a></td>
<td>4th Year BUS</td>
</tr>
<tr>
<td>Kristin Lucchesi</td>
<td><a href="mailto:kluuches@iit.edu">kluuches@iit.edu</a></td>
<td>3rd Year ECE</td>
</tr>
<tr>
<td>Aaran McEneff</td>
<td><a href="mailto:amceneff@iit.edu">amceneff@iit.edu</a></td>
<td>3rd Year BUS</td>
</tr>
<tr>
<td>Vito Natale</td>
<td><a href="mailto:vnatale@iit.edu">vnatale@iit.edu</a></td>
<td>4th Year Mechanical Engineer</td>
</tr>
<tr>
<td>Mehrdad Nikamalfard</td>
<td><a href="mailto:mnikamal@iit.edu">mnikamal@iit.edu</a></td>
<td>4th Year Industrial Engineer</td>
</tr>
<tr>
<td>Timothy Phillips</td>
<td><a href="mailto:tphilli4@iit.edu">tphilli4@iit.edu</a></td>
<td>4th Year Arch</td>
</tr>
<tr>
<td>Dennis Radtke</td>
<td><a href="mailto:dradtke@iit.edu">dradtke@iit.edu</a></td>
<td>3rd Year Arch</td>
</tr>
<tr>
<td>Ruben Robledo</td>
<td><a href="mailto:rrobledo@iit.edu">rrobledo@iit.edu</a></td>
<td>4th Year Arch</td>
</tr>
<tr>
<td>Jessica Workman</td>
<td><a href="mailto:workjes@iit.edu">workjes@iit.edu</a></td>
<td>5th Year Arch</td>
</tr>
<tr>
<td>Julia Valadez</td>
<td><a href="mailto:valajul@iit.edu">valajul@iit.edu</a></td>
<td>5th Year Arch</td>
</tr>
</tbody>
</table>
1.2 Identity

1.2.1 Name
IDEAS
This is an acronym for the motto.

1.2.2 Logo

1.2.3 Motto
The motto forms the acronym that is the team name (IDEAS).

Interdisciplinary

Design

Education

And

Strategies
Chapter 2

Team Purpose and Objectives

2.1 Purpose

The main purpose of IPRO301 is to design and develop a dedicated location for IIT’s IPRO Program. For the Summer 2009 semester, the purpose will be to come up with design ideas that can solve the problems.

2.2 Objectives

- Determine IPRO’s current situation
- Research similar facilities
- Research needs of the program
- Develop designs for potential new IPRO spaces (considering both renovating existing facilities and constructing new facilities)
- Create a proposal, which includes each design
Chapter 3

Background

3.1 Client

The client for IPRO301 is the Illinois Institute of Technology. Specifically, this project is for the IPRO Program.

3.2 Problem Description

At this time, the IPRO Program is distributed across the IIT campus, with no specific location for any of its operations.

The main IPRO offices are in the 3424 Building, along with many of the class meeting locations. This building gives the impression of a cold war relic. It lacks power connections in the rooms, modern technology, printing facilities, tables and chairs, and in some cases, windows. It is also heavily used by a number of programs that are completely unrelated to IPRO.

A number of IPRO classes are in almost random locations all over the IIT campus. Many of these locations do not properly function as meeting/conference rooms, do not have technology desks (projectors, computers, power, internet), and in the case of this IPRO (IPRO301), the room is actively used by random other people during the meeting time.

3.3 Potential Solution Technologies

There are two potential options to solve this problem. The first, and more obvious solution, is to build a new facility for the IPRO program. This has the benefit of complete control over everything. The facility can be designed green, modern, secure, aesthetically pleasing, and as useful as it could possibly be. The downside is finding a location. The IIT campus is not large enough to have a number of empty locations available for development.

The second option is to renovate an existing facility. This option has the benefit of not requiring a location. To some extent, it may be possible to save quite a bit on costs by not pouring a foundation, laying basic structural elements, and other things that can be reclaimed from whatever existing facility.

In either case, the facility in the end will have certain basic requirements. These include technology, including computer labs with internet access and printing facilities, multimedia capabilities, conference centers, and perhaps specialized research laboratories.

3.4 History of Previous Attempts

In the past the IPRO program has moved around without ever having a successful dedicated space.

For some time, offices for this program were in E-1 along with a dedicated conference room and team studio workroom.

The HUB was thought to be the ideal building for a collaborative space. After moving classrooms to the Expo area, it became apparent that the HUB would not suffice do to problems with acoustics and time conflicts with other scheduled events.

One architect drafted plans to establish a space within the HUB, but the plans were never documented as they were impractical and difficult to implement.

Currently the IPRO program is housed in 3424 along with the Stuart School of Business. However, there are limited resources and few classrooms and conference rooms.

3.5 Ethical Issues

Ethical issues faced by this project include gaining access to similar existing facilities. This requires permission from the organizations behind other facilities.

There may be issues involving potential landmark or historical status for buildings on the IIT campus. Modifying an existing facility might result in these issues getting in the way. As noted in the case of Soldier Field (here in Chicago), which lost its national landmark status after renovation, this issue must be considered.
CHAPTER 3. BACKGROUND

Also involved in renovating existing facilities is the issue of dangerous materials. Some of the IIT buildings quite literally are cold war relics. Two IIT buildings are currently not in use, and have asbestos problems that would have to be addressed.

In the case of a new facility, the impact of the facility must be considered. This includes environmental, social, and architectural concerns.

The final concern is funding. Not only is it important to design the best possible facility, but also to consider both the current economic situation, and IIT’s current financial situation. Frivolous spending helps nobody.

3.6 Business and Social Costs of the Problem

In addition to the cost of building or renovating, there is also the cost of running the facility that will exist. This is countered by the current cost to the IPRO program, which relies heavily on other program’s facilities. Printing, meeting locations, office space, power, communications, and other elements of the IPRO Program’s operations have to be covered, whether by the IPRO Program’s existing systems, or by outsourcing to other programs or departments.

One of the social costs of the problem is the view and acceptance of the IPRO Program. It is easy to view the program just like its facilities. It is scattered, lacks its own abilities, and does not have an obvious, singular identity at IIT.

3.7 Proposed Implementation Outlines

IPRO301 has divided into 3 research teams. We will also divide into 3 production teams. Each team will come up with a solution.

One team will be coming up with a solution that applies to the option of constructing a new facility somewhere on the IIT campus. The other two teams will be looking into renovating existing facilities.

3.8 Similar Solutions

There are a number of similar programs and facilities at other universities. Among them are the University of Illinois at Chicago, Purdue University, and Northwestern University.

We will be sending research teams to investigate the facilities at Purdue and Northwestern Universities.
Chapter 4

Team Values Statement

4.1 Team Value Attributes

4.1.1 Communication
- Email will be checked daily by all members. Responses should be timely.
- Review meeting minutes as needed.
- As much as possible, everybody will keep everybody else “in the loop”.

4.1.2 Integrity
- Each person will be accountable for his/her words and actions.
- Each person will follow through on all promises.

4.1.3 Respect
- Will remain quiet and attentive when someone is speaking.
- Will not speak poorly of other group members in or out of meetings.
- Will keep criticism professional, not personal.

4.1.4 Timeliness
- Arrive on time or early to meetings (both group meetings and meetings with contacts)
- Turn assignments in on time
- Inform the proper people when something will be behind schedule
- Inform the professors, general manager, and respective team leader when meetings will be missed
- We will begin meetings as close to on time as possible, despite attendance issues
- Tasks will be performed in as efficient a manner as possible

4.2 Conflict Resolution
In case of conflict, the first step is to meet with the team captain and all involved individuals. This meeting will involve no unnecessary people.

Problems between teams, or involving the team captain, or problems that the team captain can not resolve will be moderated by the general manager.

In the event that the problem can not be resolved by the general manager, then the situation will be handled by the professors. If, for any reason, this does not solve the problem, Tom Jacobius may be contacted.
Chapter 5

Methodology/ Brainstorm/ Work Breakdown Structure

5.1 Research

5.1.1 IIT

IT
Interview 1hr
Summation 2hr

Business Model
Interview 1hr
Summation 2hr

Educational Philosophy
Interview 1hr
Summation 2hr

Facilities
Interview 1hr
Summation 2hr

Programming
Interview 1hr
Summation 2hr

Documenting Research
Collection 2hr
Final Document 4hr

5.1.2 Purdue

IT
Interview 1hr
Summation 2hr

Business Model
Interview 1hr
Summation 2hr

Educational Philosophy
Interview 1hr
Summation 2hr

Facilities
Interview 1hr
Summation 2hr

Programming
Interview 1hr
Summation 2hr

Documenting Research
Collection 2hr
Final Document 4hr

5.1.3 Northwestern

IT
Interview 1hr
Summation 2hr

Business Model
Interview 1hr
Summation 2hr

Educational Philosophy
Interview 1hr
Summation 2hr

Facilities
Interview 1hr
Summation 2hr

Programming
Interview 1hr
Summation 2hr

Documenting Research
Collection 2hr
Final Document 4hr

Review & Rework (as necessary) 1hr

Review & Rework (as necessary) 1hr

Review & Rework (as necessary) 1hr
CHAPTER 5. METHODOLOGY/ BRAINSTORM/ WORK BREAKDOWN STRUCTURE

Review & Rework (as necessary) 1hr

5.2 Production

5.2.1 Facility 1 Programming
Assess Need 4hr

Decide Final Programming 3hr
Document Programming 3hr
Review & Rework (as necessary) 1hr

Schematic Design
Determine Design Need From Programming 5hr

Generate High Level Design Documents 12hr
Finalize Facility 1 Design 3hr
Document Schematics 3hr
Review & Rework (as necessary) 1hr

Design Development
Determine Design Need From Initial Schematics 6hr

Generate Final Design Documents 20hr
Finalize Final Design 5hr
Document Design 4hr
Review & Rework (as necessary) 1hr

Construction Information
Assess Construction Needs From Design 14hr

Review & Rework (as necessary) 1hr

5.2.2 Facility 2 Programming
Assess Need 4hr

Decide Final Programming 3hr
Document Programming 3hr
Review & Rework (as necessary) 1hr

Schematic Design
Determine Design Need From Programming 5hr

Generate High Level Design Documents 12hr
Finalize Facility 2 Design 3hr
Document Schematics 3hr
Review & Rework (as necessary) 1hr

Design Development
Determine Design Need From Initial Schematics 6hr

Generate Final Design Documents 20hr
Finalize Final Design 5hr
Document Design 4hr
Review & Rework (as necessary) 1hr

Construction Information
Assess Construction Needs From Design 14hr

Review & Rework (as necessary) 1hr

5.2.3 Facility 3 Programming
Assess Need 4hr

Decide Final Programming 3hr
Document Programming 3hr
Review & Rework (as necessary) 1hr

Schematic Design
Determine Design Need From Programming 5hr

Generate High Level Design Documents 12hr
Finalize Facility 3 Design 3hr
Document Schematics 3hr
Review & Rework (as necessary) 1hr

Design Development
Determine Design Need From Initial Schematics 6hr

Generate Final Design Documents 20hr
Finalize Final Design 5hr
Document Design 4hr
Review & Rework (as necessary) 1hr

Construction Information
Assess Construction Needs From Design 14hr

Review & Rework (as necessary) 1hr
CHAPTER 5. METHODOLOGY/ BRAINSTORM/ WORK BREAKDOWN STRUCTURE

Review & Rework (as necessary) 1hr

Construction Information
Assess Construction Needs From Design 14hr
Collect Construction Needs 8hr
Document Construction Needs 4hr
Review & Rework (as necessary) 1hr

5.3 IPRO Deliverables

5.3.1 Project Plan
Distribute Work Elements .5hr
Complete Work Elements 6hr
Collect Work Elements 2hr
Generate Final Document 8hr
Review & Rework (as necessary) 1hr

5.3.2 Midterm Presentation
Analyze Guidelines 2hr

5.3.3 Brochure
Analyze Guidelines 1.5hr
Choose Information For Inclusion 2hr
Generate Brochure 7hr
Review & Rework (as necessary) 2hr
Upload Brochure For Printing .25hr
Collect Brochures From IPRO Office .5hr

5.3.4 Poster
Analyze Guidelines 1.5hr

5.3.5 Final Report
Analyze Guidelines 3hr
Collect Information 4hr
Generate Report 12hr
Review & Rework (as necessary) 2.5hr
Upload Final Report .5hr

5.3.6 Work Product CD
Collect All Information & Documents 3hr
Burn Disc 2hr
Chapter 6

Expected Results

6.1 Research and Testing

The entire first phase of the Summer 2009 semester of IPRO301 is aimed at research. We will be attempting to gather detailed data about the problems that the new facility must solve, the current situation for the IPRO Program, other similar facilities at other universities, and the facilities that exist at IIT that might be used in a renovation.

6.2 Products of Research and Testing

The results of our research should be a well enough detailed picture of the situation that we can begin to consider potential solutions.

6.3 Potential Task Outputs

Our results will include a fairly decent amount of documentation, as well as the designs for ideas that are produced.

6.4 Expected Deliverables

Deliverables will include all documentation generated to describe our research, all documentation of work done, drawings, pictures, renderings, and possibly models.

6.5 Assumptions, Challenges, & Risks

In the case where ideas involve potential renovation of existing facilities, the assumption is made that the facilities involved would be available.

Our challenges include the fact that all ideas must come from nothing, since the project is just beginning, and the necessity to design around existing structure in the case where existing facilities might be renovated.

The other main challenge is the fact that this new facility must reflect both IIT and the IPRO Program.

The risks are, mostly, that the ideas created could be rejected. The other main risk is money. Obviously, something like this is an expensive undertaking. One of the challenges of the project is to try to make the new facility a good idea financially. Even so, it is possible that ideas could be rejected based on finances.

6.6 Expected Results In the Solution

The main expected result will be 3 booklets, one for each potential solution. These booklets will include programming, floorplans, and other information about the facility.

The other major output will be the collected research about similar facilities. This is where ideas about what should and should not be included in the ideas for solutions at IIT.
Chapter 7

Budget

<table>
<thead>
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<th>Category</th>
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<tbody>
<tr>
<td>Transportation</td>
<td>$150.37</td>
<td>Visiting other universities</td>
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<td>Models</td>
<td>$120.00</td>
<td>Models of ideas</td>
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<td>Idea Booklets</td>
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<td>Final booklets for ideas</td>
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<td>Research Printing</td>
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<td>Final Proposal</td>
<td>$125.00</td>
<td>Self explanatory</td>
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<td>Other Costs</td>
<td>$66.63</td>
<td>Other costs that may arise</td>
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<td><strong>Total</strong></td>
<td><strong>$750.00</strong></td>
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</table>
Chapter 8

Task List and Milestones

8.1 Project Task Lists
- Research (IIT, Purdue, Northwestern)
- Research Documentation and Analysis
- Creating Solution Ideas
- Documenting Solution Ideas
- Finalizing Solution Ideas
- Creating Solution Documents
- Creating Proposal
- IPRO Day

8.2 IPRO Specific Tasks
- Project Plan
- Midterm Presentation
- Final Presentation
- Brochure
- Poster
- Work Product CD

8.3 Task Breakdown
See figures on the next two pages.
<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
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<tr>
<td>1 Jun 2009</td>
<td>Collage due today</td>
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<tr>
<td>3 Jun 2009</td>
<td>14:30 IPRO-301 Ethics meeting</td>
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<tr>
<td>4 Jun 2009</td>
<td>Start Project Plan</td>
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<tr>
<td>7 Jun 2009</td>
<td>Project Plan - Input Due</td>
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<tr>
<td>8 Jun 2009</td>
<td>Visit to NJ Ford Design Centre</td>
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<tr>
<td>9 Jun 2009</td>
<td>Purdue Visitor</td>
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<td>10 Jun 2009</td>
<td>Visit to NJ Ford Design Centre</td>
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<tr>
<td>11 Jun 2009</td>
<td>15:00 IPRO 301 - Class Meeting</td>
</tr>
<tr>
<td>13 Jun 2009</td>
<td>Assessment of Collected Info</td>
</tr>
<tr>
<td>14 Jun 2009</td>
<td>Begin Preparing Midterm Presentation</td>
</tr>
<tr>
<td>15 Jun 2009</td>
<td>Project Plan Due</td>
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<tr>
<td>16 Jun 2009</td>
<td>Deliverable - Project Plan</td>
</tr>
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<td>17 Jun 2009</td>
<td>15:00 IPRO 301 - Class Meeting</td>
</tr>
<tr>
<td>18 Jun 2009</td>
<td>Prepare Midterm Presentation</td>
</tr>
<tr>
<td>19 Jun 2009</td>
<td>Complete Midterm Presentation</td>
</tr>
<tr>
<td>20 Jun 2009</td>
<td>Practice Midterm Presentation</td>
</tr>
<tr>
<td>21 Jun 2009</td>
<td>15:00 IPRO 301 - Class Meeting</td>
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Chapter 9

Individual Member Assignments

9.1 Team Organization & Responsibilities

For the Summer 2009 semester, this IPRO has divided into three teams. There are also two phases to the project.

Phase one will be research. This research will have one team per university investigating other university facilities.

Phase two will be development. In this phase, ideas will be created for solutions at IIT. Three ideas will be created, one per team.

9.2 Leadership

As there are three teams, there are three team captains. Each is responsible for a team. There is also a general manager, who is responsible for coordinating the three teams.

9.3 Individual Member Responsibilities

<table>
<thead>
<tr>
<th>Team</th>
<th>IIT Team</th>
<th>Purdue Team</th>
<th>Northwestern Team</th>
</tr>
</thead>
<tbody>
<tr>
<td>Members</td>
<td>Julia Valadez (Team Captain)</td>
<td>Ed Scanlon (Team Captain)</td>
<td>Kevin Krupp (Team Captain)</td>
</tr>
<tr>
<td></td>
<td>Gergana Horozova Nalls</td>
<td>Dennis Radtke</td>
<td>Aaran McEneff</td>
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<td>Faraz Hussain</td>
<td>Alexis Laurence</td>
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<td>Joel Cornelius</td>
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<td>Vito Natale</td>
<td>Mehrdad Nikamalfard</td>
<td>Kristen Lucchesi</td>
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<td></td>
<td>Jessica Workman</td>
<td>Timothy Phillips</td>
<td>Ruben Robledo</td>
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Chapter 10

Designation of Roles

10.1 Meeting Roles

<table>
<thead>
<tr>
<th>Role</th>
<th>Person</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minute Taker</td>
<td>Kevin Krupp</td>
</tr>
<tr>
<td>Agenda Maker</td>
<td>Ed Scanlon</td>
</tr>
<tr>
<td>Time Keeper</td>
<td>Philip Brierly</td>
</tr>
</tbody>
</table>

10.2 Status Roles

<table>
<thead>
<tr>
<th>Role</th>
<th>Person</th>
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</thead>
<tbody>
<tr>
<td>Timesheet Collector</td>
<td>Julia Valadez</td>
</tr>
<tr>
<td>Master Schedule Maker</td>
<td>Kristen Lucchesi</td>
</tr>
<tr>
<td>iGroups</td>
<td>Timothy Phillips</td>
</tr>
</tbody>
</table>
Bibliography

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[3] Northwestern University and facilities researched ©Northwestern University

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