

**Integrated Product & Process Design (IPPD)  
2007-2008 Weekly Schedule**

*Classes are generally held on M, W, & F, 9th period in Little Hall, Room 109, exceptions highlighted*

**Key to Deliverables:**

**Bold = common;** Plain = hardware; Italics = software

*Note: Deliverable presentations must be ready for Monday of week due; progress memos due the following Wednesday*

	Lecture Topic Assignments	Deliverables Due	Workshop Activities	Major Reading Assignments
<b>WEEK 1</b>				
Fri	24-Aug Introduction/ Policies/ Procedures/ Teams/ Projects - Coach Assignments (KS) 270 Weil Hall		Orientation	Product Design & Development (PD&D) Chapters 1 & 2
<b>WEEK 2</b>				
Mon	27-Aug First Team Meeting	<b>Team Name &amp; Logo</b>	Name & Logo	PD&D Chapters 4, 5, & 6
Wed	29-Aug Overview Product Realization (KS)		Team Building Engineering Notebooks	Handout/ Download (ST)
Fri	31-Aug Conceptual Design Phase/ Customer Needs/ Product Design Specifications (ST) Benchmarking, Early Design Information (ST)		Training for Design Systems Technical Strategy System/Product Requirements	
<b>WEEK 3</b>				
Mon	3-Sep <b>No IPPD Lecture</b>		Visit Industry Sponsor (off campus) Project Roadmap	
Wed	5-Sep <b>No IPPD Lecture</b>			
Fri	7-Sep Dean's Lecture: "Owning Your Career," Roger Berry, CIO Walt Disney Parks & Resorts (P. Khargonekar)			
<b>WEEK 4</b>				
Mon	10-Sep Intellectual Property, Confidentiality & ITAR (KS) Introduction to Concept Generation (KS)	Preliminary Product Design Specifications <i>Technical Strategy</i>	Concept Generation & Evaluation Complete & Testable Specifications	"Cyclone Grinder" Case Study, <a href="http://bits.me/berkeley.edu/mmcs/cyclone">http://bits.me/berkeley.edu/mmcs/cyclone</a>
Wed	12-Sep Intellectual Property and Patent Law (Jim Parker, Salawanchik, Lloyd & Salawanchik)			
Fri	14-Sep Concept Generation (J. Alba)			PD&D Chapter 7
<b>WEEK 5</b>				
Mon	17-Sep Concept Evaluation & Selection (KS)	<b>Project Roadmap</b>	Concept Selection	PD&D Chapter 14
Wed	19-Sep Project Management (Steve Armil, Switch and Data, Inc.)	<i>System/Product Requirements</i>	Preliminary Product Sourcing Code Reuse/ Plans for Prototyping & Preliminary Subsystem Design	
Fri	21-Sep Business Economics (S. Erenguc)		Preliminary System/ Product Architecture	

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<b>WEEK 6</b>				
Mon	24-Sep Developing a Project Plan (S. Erenguc)	Preliminary Concept Generation & Evaluation	Preliminary Design Report & Project PD&D Chapter 13 Plan	
Wed	26-Sep Concept Selection (KS)		Configuration Management Plan	
Fri	28-Sep Entrepreneurial Lecture #1: Idea Generation & Feasibility Analysis (Erik Sander)			
<b>WEEK 7</b>				
Mon	1-Oct Software Test Planning, Review & Inspection Comprehensive Test Plan & Structure (Steve Thebaut)	<b>Project Plan</b> <i>Draft Complete &amp; Testable</i>	Preliminary Design Report	PD&D Chapter 9
Wed	3-Oct Software System Requirements & Product Design Software Life Cycle (Rob Steinberger, Freedom Scientific)	<i>Specifications; Preliminary System/ Product</i>		
Fri	5-Oct Entrepreneurial Lecture #4: Building & Working in a Multidisciplinary Business Team (Bill Rossi)	<i>Architecture</i>		
<b>WEEK 8</b>				
Mon	8-Oct Design Process Methodologies/ Design Systems/ Procedures/ Design Documentation/ Standards/ Unique Parts/ Change Control (KS)	Preliminary Concept Selections	Product Architecture	
	Bill of Materials (KS)	<i>Configuration Management Plan</i>	Software Prototype Plan	
Wed	10-Oct Product Architecture & Component Design Specifications (KS)		Preliminary Unique & Standard Parts Identification	
Fri	12-Oct Entrepreneurial Lecture #3: Market Analysis & Research (Peter McKay)		Preliminary Design Report	
<b>WEEK 9</b>				
Mon	15-Oct Design Report & Project Plan (KS)	<b>Preliminary Design Report</b>	Industry Sponsor Review (off campus)	
	Peer Reviews - Parallel Sessions (periods 9 & 10)			
Fri	19-Oct TBD		Project Sign Off	
<b>WEEK 10</b>				
Mon	22-Oct Design for Manufacturing and Assembly (KS)	Product Architecture <i>Prototype Plan</i>	Follow Up Industry Sponsor Visit	
			Component Specifications	
Wed	24-Oct Preparing a System Level Design Report (Mark Burns, GTS)		Comprehensive Test Plan	
Fri	26-Oct Entrepreneurial Lecture #5: Business Planning & Plans (Erik Sander)			

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<b>WEEK 11</b>				
Mon	29-Oct Proof of Concept, Analysis & Experimentation Prototyping, Testing (BE)	Component Specifications <i>Comprehensive Test Plan</i>	Analytical & Experimental Plans Bill of Materials	
Wed	31-Oct Cost Estimates Make/Buy Decisions (AV)		Cost Estimating	
Fri	2-Nov <b>Homecoming -- no class</b>		Prototype Parts & Assembly	
<b>WEEK 12</b>				
Mon	5-Nov Design for Quality Robust/ Reliable Products (KS)	Preliminary Manufacturing Plan Product Cost	Manufacturing Plan Software Technical Design Specification Report	<a href="#">"IBM Proprinter" Case Study</a> <a href="http://bits.me.berkeley.edu/mmcs/PD&amp;D/Chapter">http://bits.me.berkeley.edu/mmcs/PD&amp;D/Chapter</a>
Wed	7-Nov Design of Experiments (Diane Schaub or ST)			
Fri	9-Nov Entrepreneurial Lecture #2: Entrepreneurship and Company Formation (David Massias)			
<b>WEEK 13</b>				
Mon	12-Nov <b>Veterans Day -- no class</b>	Analytical & Experimental Plans	Prototype Plan Component/ Product Acceptance Test Plan	
Wed	14-Nov Software Coding & Unit Test (Jack Needham, Harris Corp.)			
Fri	16-Nov Dean's Lecture: David Thomas (P. Khargonekar)			
<b>WEEK 14 No classes</b>				
Mon	19-Nov No Classes 11/22 & 11/23, Thanksgiving Holidays	<i>Technical Design</i> <i>Specification Report</i>	Analytical & Experimentation System Level Design Report	
<b>WEEK 15 No classes</b>				
			System Level Design Report Prototype Results Code/Unit Test/Build & Integration Project Plan Peer Review for Jan. '08	
<b>WEEK 16</b>				
Mon	3-Dec Peer Reviews - Parallel Sessions (periods 9 & 10)	<b>System Level Design</b>		
Wed	5-Dec Preload PowerPoint Presentation files	<b>Report</b>		
Thur	6-Dec <b>Industry Sponsor Reviews (on campus)</b>			
<b>WEEK 17 No classes</b>				

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<b>WEEK 18</b>				
Mon	7-Jan Testing (JRA)		Analysis & Experimentation	
Wed	9-Jan Process Control Concepts (ST)		Prototype Results	
Fri	11-Jan Entrepreneurial Lecture #6: Marketing in an Entrepreneurial Environment (Joe Alba)		<i>Project Review</i>	
			Detail Product Design	
			Updated Product Specifications	
<b>WEEK 19</b>				
Mon	14-Jan Project Plan (KS) Peer Reviews - Parallel Sessions	<b>Project Plan &amp; Detailed Design Review</b>		
Wed	16-Jan Project Plan (KS) Peer Reviews - Parallel Sessions	<i>Prototype Results</i>		
Fri	18-Jan Entrepreneurial Lecture #7: Financing Modes (fundraising) (Dan Rua)			
<b>WEEK 20</b>				
Mon	21-Jan MLK Birthday, No Classes			
Wed	23-Jan Design for Quality; Reliability; Quality Loss Function (ST)			
Fri	25-Jan Production Capacity/ Tools & Equipment/ Layouts/ Facilities/ Production Systems/ Production Line Simulations (ST)			
<b>WEEK 21</b>				
Mon	28-Jan Semiconductor Fabricators (BE)	Analytical and Experimental Report		
Wed	30-Jan no class		Prototype Testing	
Fri	1-Feb Entrepreneurial Lecture #8: financials (income statement, balance sheet and cash flow statement) (Carol Villemaire)			
<b>WEEK 22</b>				
Mon	4-Feb IPPD Poster Process, Final Report Guidelines (KS)	Detail Manufacturing	Project Review	Poster Preparation
Wed	6-Feb Environmental Design Considerations (Paul Chadik)	Process & Tool	Code/Unit Test/Build & Integration	Guidelines
Fri	8-Feb no class	Documentation		
<b>WEEK 23</b>				
Mon	11-Feb Green Design (Angela Lindner)	<i>Code/Unit Test/Build &amp; Integration</i>	Modifications of Specifications & Detail Design	
Wed	13-Feb Life Cycle Assessment (Angela Lindner)			
Fri	15-Feb Industrial Design (Safety, Ergonomics, Aesthetics) (Robert Brady, RoBrady Design)		Poster	
<b>WEEK 24</b>				
Mon	18-Feb Chemical Process Design Considerations (OC)	Prototype Results and Report	Acceptance Test Plan	
Wed	20-Feb Product Liability and the Design Engineer (JRA)		Poster	

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<b>WEEK 25</b>				
Mon	25-Feb Prototype Results & Report (KS) Peer Reviews - Parallel Sessions		Manufacturing & Test Plan Product Costs	
Wed	27-Feb Prototype Results & Report (KS) Peer Reviews - Parallel Sessions		Poster	
<b>WEEK 26</b> No Classes				
Follow up on peer review issues				
<b>WEEK 27</b> Spring Break, no classes				
<b>WEEK 28</b> No Regular Classes				
Mon	17-Mar		Acceptance Test Results Product Verification Poster	Final Presentations/ Final Reports & Document. Guidelines
<b>WEEK 29</b> No Regular Classes				
Mon	24-Mar Review poster draft in class, teams #1 - #8 <i>Only poster coordinators need to participate</i>	Manufacturing & Test Plan, Product Cost	Acceptance Test Results Product Verification	Final Presentations/ Final Reports & Document.
Wed	26-Mar Review poster draft in class, teams #9 - #17 <i>Only poster coordinators need to participate</i>	<b>Project Poster Draft</b>	Final Presentation, Poster	Guidelines
Wed	28-Mar Review poster draft in class, teams #18 - #25 <i>Only poster coordinators need to participate</i>	<b>Materials &amp; Layout</b>	Final report & Documentation	
<b>WEEK 30</b> - No classes				
Mon	31-Mar		Final Presentation Poster Final report & Documentation	
<b>WEEK 31</b> - No classes				
Mon	7-Apr Final Presentations (KS) Peer Reviews - Parallel Sessions	<b>Project Poster</b>	Final Presentation Poster Final report & Documentation	
<b>WEEK 32</b> - No classes				
Wed	16-Apr Preload Powerpoint Presentations & Poster Pickup	<b>Final Presentation</b>		
Thur	17-Apr <b>Presentation to Industry Sponsors (on campus)</b> (KS) Detail Review of Final Report & Documentation with Industry	<b>Poster, Final report &amp; Documentation</b>		
<b>WEEK 33</b> UF Classes End 4/23				
Wed	23-Apr	<b>Final Checklist</b>	Ship Final Project Materials to Sponsors <b>Clean up Design Stations</b>	
<b>WEEK 34</b> Commencement 3&4 May				