		Week/Date	Lectures/ Labs**]
		Week 1	Lectures – Course Overview; Design Process, Ideation Methods.	1
		8/22 - 8/26	<u>Lab 1</u> – Lab Orientation; Creative design and sketch	
		Week 2	Lectures –Conceptual Sketching	-
	•	8/29 – 9/2	<u>Lab 2</u> –Thumbnail and Conceptual Sketching	<u>S</u>
		Week 3	Monday no class: , Lectures – Perspective Sketching	6 0
		9/5 – 9/9	<u>Lab 3</u> – Perspective Views and design variation	tch tch
		Week 4	Lectures - Engineering Lettering; Shapes and Forms	Sketching ->
Ш	\longrightarrow	9/12 – 9/16	<u>Lab 4</u> – Engineering Lettering; sketching simple and complex forms	
	Individual PROJECT	Week 5	Lectures–Multiviews; Dimensioning	
ш		9/19 – 9/23	<u>Lab 5</u> – Adding details, Multiviews and dimensioning	
		Week 6	Lectures – Intro to 3D Solid Modeling: 2D sketching; Constraints;	
		9/26 - 9/30	Extrusions; Holes; Edge Treatments, Revolved, Swept and Lofted features;	
			Shell(Thin wall); Work features	^
TEAM PROJECT			<u>Lab 6</u> - Part Modeling	_
		Week 7	Lectures – Editing Features; Intersects; Copy; Mirror; Coils; Ribs; Threads;	
		10/3 - 10/7	Split/Combine/Derived parts; Patterns; Text	
			Lab 7 – Part Modeling Mand The closer Lectures Mass Proporties: Variables/Formules:	-
		Week 8 10/10 – 10/14	M and T no class: Lectures –Mass Properties; Variables/Formulas; Advanced geometric constraints	Virtual Design, and 3D Pri
			Lab 8 – Part Modeling	
		Week 9	Lectures – 3D Printing; Mfg processes; Design for Mfg	
		10/17 – 10/21	Lab 9 – 3D Printing, Rapid Prototyping; Invention Studio Tour	
		Week 10	Lectures –Assembly Modeling; Interference checking, Contact Sets,	
		10/24 – 10/28	Lab 10 – Assembly Modeling	
			Lectures – Creating section, detail, broken, auxiliary and standard	- Pr Jn
		Week 11 10/31 – 11/4	multiviews;	n, Assemble Printing
\Box			Lab 11 – Drawing Views & Dimensioning; Tolerances; GD&T	
EC		Week 12	Lectures –Exploded Views, Balloons and Part's List; Cutaway Views	ig er
☐ 		11/7 – 11/11	<u>Lab 12</u> –Exploded; Parts List; Cutaway Views; Instructions Manual	l nb
	ہـــا	-Week 13	Lectures - Renderings; Animations	
		11/14 – 11/18	<u>Lab 13</u> - Rendering; Animations	
		Week 14	Lectures - Renderings; Animations	-
		11/21 – 11/25	<u>Lab 14</u> - Thanksgiving break – no lab	
		Week 15	Lectures - Renderings; Animations	
		11/28 - 12/2	<u>Lab 15</u> - Work on project final reports	
		Week 16 12/5 – 12/9	Lectures – Project Review; Guidelines for Oral Presentations	
			3D Team Project report due- Tuesday, Dec. 6 @ 3 PM to	
_			Instructor's office (GTMI 451)	
		12/12 – 12/16	Final Exam Week Team Project Presentations – functional animations	
			due to t-square	

^{**}All dates, topics and deadlines may subject to change by your instructor.