

**CS450 Assignment Sheet**  
**Reading, Reflection Questions & Projects**

Dates	Assignment	Description	Files or Materials Needed	Due Date
10/11-10/18	Reading #1 & Reflection Questions	Read RAP Design Guide Section 2.1-2.38 (pages 10-30), answer reflection questions in PPT and complete machining activities in PPT	<a href="#">RAP Design Guide Reading &amp; Reflection Questions PPT</a>	10/18/2021 at start of class
	Manufacture Toe Clamp Pieces & assemble	Create toe clamp piece 1 out of wood using shop tools; 3D-print remaining pieces in ID Lab	<a href="#">Toe Clamp Drawing</a>  <a href="#">Toe Clamp CAD File</a>  Wood stock	10/18/2021 at start of class
	Mini Project #1 – Gear Intake Design	Aim to have your design ~75% complete at this point. You should have all parts sketched, geometry figured out, and a semi-working assembly.	-----	10/18/2021 at start of class
10/18-10/29	Reading #2 & Reflection Questions	Read RAP Design Guide Section 3 (pages 31-56), answer reflection questions in PPT	<a href="#">RAP Design Guide Reading &amp; Reflection Questions Set 2</a>	10/29/21 at start of class
	Manufacture Toe Clamp Pieces & assemble	Create toe clamp piece 1 out of wood using shop tools; 3D-print remaining pieces in ID Lab ( <b>MS CLARK WILL PRINT PIECES</b> )	<a href="#">Toe Clamp Drawing</a>  <a href="#">Toe Clamp CAD File</a>  Wood stock	10/29/2021 at start of class
	Mini Project #1 – Gear Intake Design	Aim to have your design ~90-100% complete by start of next week and be ready to begin manufacture next week.	-----	10/29/2021 at start of class

11/1-11/15	Reading #3 & Reflection Questions	Read RAP Design Guide Section 4 (pages 57-97), answer reflection questions in PPT	<a href="#">RAP Design Guide Reading &amp; Reflection Questions Set 3</a>	11/10/2021 at the start of class
	Mini Project #1 – Gear Intake Design	Finalize CAD and begin manufacturing & assembling design.	-----	Final Assembly Due end of term
	Mini Project #1 – Gear Intake Design: <b>Technical Report</b>	Write technical report on gear intake design, manufacture, assembly and testing. Use report rubric for report structure and required content.	<a href="#">Technical Report Rubric</a>	Draft #1 due 11/12
	Mini Project #1 – Gear Intake Design: <b>Technical Design Poster</b>	Create a technical design poster for your gear intake design. Format your poster for 18x24 size, landscape or portrait. See design poster rubric for required poster content.	Technical Design Poster Rubric  Example Poster 1  Example Poster 2  Example Poster 3	Draft #1 due 11/15