

CougSat-1											
V1.1.3											
End: 11-Dec-19											
Subsystem	Component	Type	Start	Design		Implement Part 1		Implement Part 2		Test	
Self-contained system within the satellite	Subassembly of the subsystem	Primary discipline	Component commencing	Outlining, prototyping, planning, diagraming, etc.		Schematic, mCAD, front end, interfacing, etc.		Board layout, machining, backend, assembly, etc.		Functional, performance, validation, etc.	
CougSat-1	Engineering Model	Assembly	2-May-18	3 weeks	23-May-18	45 weeks	3-Apr-19	4 weeks	1-May-19	12 weeks	24-Jul-19
	Flight Unit	Assembly	1-May-19	7 weeks	19-Jun-19	8 weeks	14-Aug-19	8 weeks	9-Oct-19	9 weeks	11-Dec-19
EPS	Mainboard	Hardware	23-May-18	2 weeks	6-Jun-18	8 weeks	1-Aug-18	16 weeks	21-Nov-18	4 weeks	19-Dec-18
	Solar Panel	Hardware	1-Aug-18	2 weeks	15-Aug-18	8 weeks	10-Oct-18	8 weeks	5-Dec-18	4 weeks	2-Jan-19
	Backplane	Hardware	29-Aug-18	2 weeks	12-Sep-18	3 weeks	3-Oct-18	8 weeks	28-Nov-18	4 weeks	26-Dec-18
	PMIC	Software	24-Oct-18	3 weeks	14-Nov-18	8 weeks	9-Jan-19	4 weeks	6-Feb-19	4 weeks	6-Mar-19
Avionics	Mainboard	Hardware	31-Oct-18	3 weeks	21-Nov-18	8 weeks	16-Jan-19	7 weeks	6-Mar-19	4 weeks	3-Apr-19
	ADCS Controller	Software	26-Sep-18	10 weeks	5-Dec-18	10 weeks	13-Feb-19	14 weeks	22-May-19	7 weeks	10-Jul-19
	IFJR Controller	Software	14-Nov-18	4 weeks	12-Dec-18	8 weeks	6-Feb-19	9 weeks	10-Apr-19	9 weeks	12-Jun-19
	IHU	Software	26-Sep-18	10 weeks	5-Dec-18	7 weeks	23-Jan-19	5 weeks	27-Feb-19	10 weeks	8-May-19
Communications	Comms PCB	Hardware	29-Aug-18	7 weeks	17-Oct-18	8 weeks	12-Dec-18	8 weeks	6-Feb-19	4 weeks	6-Mar-19
	Comms Controller	Software	14-Nov-18	7 weeks	2-Jan-19	6 weeks	13-Feb-19	14 weeks	22-May-19	7 weeks	10-Jul-19
	+X Panel	Hardware	26-Sep-18	3 weeks	17-Oct-18	4 weeks	14-Nov-18	8 weeks	9-Jan-19	4 weeks	6-Feb-19
	-Z Panel	Hardware	31-Oct-18	1 weeks	7-Nov-18	4 weeks	5-Dec-18	8 weeks	30-Jan-19	4 weeks	27-Feb-19
	Ground Station	Hardware	29-Aug-18	8 weeks	24-Oct-18	4 weeks	21-Nov-18	7 weeks	9-Jan-19	4 weeks	6-Feb-19
	Ground Computer	Software	23-May-18	3 weeks	13-Jun-18	26 weeks	12-Dec-18	19 weeks	24-Apr-19	7 weeks	12-Jun-19
Payload	Camera PCB	Hardware	24-Oct-18	3 weeks	14-Nov-18	4 weeks	12-Dec-18	8 weeks	6-Feb-19	4 weeks	6-Mar-19
	Germination PCB	Hardware	24-Oct-18	3 weeks	14-Nov-18	4 weeks	12-Dec-18	8 weeks	6-Feb-19	4 weeks	6-Mar-19
Mechanical	Structure	Hardware	23-May-18	3 weeks	13-Jun-18	22 weeks	14-Nov-18	8 weeks	9-Jan-19	4 weeks	6-Feb-19
	Germination	Hardware	23-May-18	7 weeks	11-Jul-18	17 weeks	7-Nov-18	4 weeks	5-Dec-18	4 weeks	2-Jan-19

Milestones		
Name	Description	Date
EM Integration	Assembly of all subsystems and components. Requires: all hardware done	3-Apr-19
EM Day in the Life Test	A duration test of the satellite in simulated space environment. Requires: all software done	10-Jul-19
FU Integration	Assembly of all flight ready subsystems and components	14-Aug-19
FU Day in the Life Test	A duration test of the flight unit in simulated space environment	9-Oct-19
FRR	Review of the flight unit to determine its readiness to fly	30-Oct-19
MRR	Review of the mission to determine its readiness to execute	20-Nov-19
ILC	Initial launch capabilities	11-Dec-19

