

CougSat-1											
V1.1.1											
End: 13-Aug-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	1-May-18	3 weeks	22-May-18	40 weeks	26-Feb-19	2 weeks	12-Mar-19	8 weeks	7-May-19
	Flight Unit	Assembly	12-Mar-19	8 weeks	7-May-19	4 weeks	4-Jun-19	4 weeks	2-Jul-19	6 weeks	13-Aug-19
EPS	Mainboard	Hardware	22-May-18	2 weeks	5-Jun-18	8 weeks	31-Jul-18	11 weeks	16-Oct-18	4 weeks	13-Nov-18
	Solar Panel	Hardware	31-Jul-18	2 weeks	14-Aug-18	8 weeks	9-Oct-18	5 weeks	13-Nov-18	3 weeks	4-Dec-18
	Backplane	Hardware	28-Aug-18	2 weeks	11-Sep-18	3 weeks	2-Oct-18	3 weeks	23-Oct-18	3 weeks	13-Nov-18
	PMIC	Software	23-Oct-18	3 weeks	13-Nov-18	8 weeks	8-Jan-19	3 weeks	29-Jan-19	3 weeks	19-Feb-19
Avionics	Mainboard	Hardware	28-Aug-18	3 weeks	18-Sep-18	8 weeks	13-Nov-18	7 weeks	1-Jan-19	3 weeks	22-Jan-19
	ADCS Controller	Software	25-Sep-18	7 weeks	13-Nov-18	7 weeks	1-Jan-19	3 weeks	22-Jan-19	7 weeks	12-Mar-19
	IFJR Controller	Software	13-Nov-18	3 weeks	4-Dec-18	7 weeks	22-Jan-19	3 weeks	12-Feb-19	7 weeks	2-Apr-19
	IHU	Software	25-Sep-18	3 weeks	16-Oct-18	11 weeks	1-Jan-19	3 weeks	22-Jan-19	7 weeks	12-Mar-19
Communications	Comms PCB	Hardware	28-Aug-18	7 weeks	16-Oct-18	8 weeks	11-Dec-18	8 weeks	5-Feb-19	3 weeks	26-Feb-19
	Comms Controller	Software	13-Nov-18	7 weeks	1-Jan-19	3 weeks	22-Jan-19	6 weeks	5-Mar-19	7 weeks	23-Apr-19
	+X Panel	Hardware	25-Sep-18	3 weeks	16-Oct-18	2 weeks	30-Oct-18	2 weeks	13-Nov-18	3 weeks	4-Dec-18
	Ground Station	Hardware	28-Aug-18	8 weeks	23-Oct-18	2 weeks	6-Nov-18	2 weeks	20-Nov-18	3 weeks	11-Dec-18
	Ground Computer	Software	22-May-18	3 weeks	12-Jun-18	22 weeks	13-Nov-18	16 weeks	5-Mar-19	7 weeks	23-Apr-19
Payload	Camera PCB	Hardware	23-Oct-18	3 weeks	13-Nov-18	4 weeks	11-Dec-18	4 weeks	8-Jan-19	3 weeks	29-Jan-19
	Germination PCB	Hardware	23-Oct-18	3 weeks	13-Nov-18	4 weeks	11-Dec-18	4 weeks	8-Jan-19	3 weeks	29-Jan-19
Mechanical	Structure	Hardware	22-May-18	3 weeks	12-Jun-18	14 weeks	18-Sep-18	7 weeks	6-Nov-18	3 weeks	27-Nov-18
	Germination	Hardware	22-May-18	7 weeks	10-Jul-18	11 weeks	25-Sep-18	7 weeks	13-Nov-18	8 weeks	8-Jan-19

Milestones		
Name	Description	Date
EM Integration	Assembly of all subsystems and components. Requires: all hardware done	26-Feb-19
EM Day in the Life Test	A duration test of the satellite in simulated space environment. Requires: all software done	23-Apr-19
FU Integration	Assembly of all flight ready subsystems and components	4-Jun-19
FU Day in the Life Test	A duration test of the flight unit in simulated space environment	2-Jul-19
FRR	Review of the flight unit to determine its readiness to fly	16-Jul-19
MRR	Review of the mission to determine its readiness to execute	30-Jul-19
ILC	Initial launch capabilities	13-Aug-19

