Preliminary Project Plan

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BYU Spacecraft Winter 2025 Mini Rover

# Project Timeline

The mission shall be accomplished within Winter 2025. Below is a table of project milestones with the following information:

1. Phase. The project life cycle phase. (See NASA Systems Engineering Handbook, Chapter 3.)
2. Milestone. The name of the milestone.
3. Authority. The authority responsible for completing the milestone.
4. Projected. The projected date of completion.
5. Actual. The actual date of completion.
6. Documentation. A link to the relevant document for review or reference.

| Project Milestones | | | | | |
| --- | --- | --- | --- | --- | --- |
| Dropdowns Phase | No type Milestone | Dropdowns Authority | Dates Projected | Dates Actual | Files Documentation |
| Pre-Phase A | Mission Concept Review (MCR) | Mission | Feb 4, 2025 | Date | [Mission Concept](https://docs.google.com/document/d/1NZFSQG0UaVEsa7cd_e0DMISXAu3vBFuIT7umOO2ATcA/edit?usp=drive_link) |
| Pre-Phase A | Preliminary Project Requirements | Mission | Feb 4, 2025 | Date | [Mission Requirements](https://docs.google.com/spreadsheets/u/2/d/1__CaRDdB4DW8WxmFvqMDFebYywYG2DVjpaf7OvxmTbo/edit) |
| Phase A | System Requirements Review (SRR) | Operations | Feb 6, 2025 | Date | [Operations Requirements](https://docs.google.com/spreadsheets/u/2/d/1GyHVxUA2e_yuuoiRt9SPZ_htOjNTxlYtdWgHBlPqTFs/edit) |
| Phase A | System Requirements Review (SRR) | Rover | Feb 6, 2025 | Date | [Rover Requirements](https://docs.google.com/spreadsheets/u/2/d/1yTNFjrwlzEXAvkyPIOkMSxKBHs9lr_Io5TXo4hVIrgo/edit) |
| Phase A | System Requirements Review (SRR) | MOS | Feb 6, 2025 | Date | File |
| Phase A | System Design Review (SDR) | Operations |  | Date | File |
| Phase A | System Design Review (SDR) | Rover |  | Date | File |
| Phase A | System Design Review (SDR) | MOS |  | Date | File |
| Phase A | Mission Design Review (MDR) | Mission |  | Date | [Mission Design](https://docs.google.com/document/u/2/d/19C7JpVhNjnWGfzEfO_kCoULDvy_Xi81vU6bvSS-4q7M/edit) |
| Phase A | Preliminary Project Plan | Mission |  | Date | [Project Plan](https://docs.google.com/document/d/17O2xgR3qUSaGUsMUx6aCG8IGL_Rn3P5t0-h3S9vlv2s/edit?tab=t.0) |
| Phase B | Preliminary Design Review (PDR) | Operations |  | Date | File |
| Phase B | Preliminary Design Review (PDR) | Rover |  | Date | File |
| Phase B | Preliminary Design Review (PDR) | MOS |  | Date | File |
| Phase B | Baseline Project Plan | Mission |  | Date | File |
| Phase C | Critical Design Review (CDR) | Operations |  | Date | File |
| Phase C | Critical Design Review (CDR) | Rover |  | Date | File |
| Phase C | Critical Design Review (CDR) | MOS |  | Date | File |
| Phase C | System Integration Review (SIR) | Mission |  | Date | File |
| Phase D | System Acceptance Review (SAR) | Operations |  | Date | File |
| Phase D | System Acceptance Review (SAR) | Rover |  | Date | File |
| Phase D | System Acceptance Review (SAR) | MOS |  | Date | File |
| Phase D | Operational Readiness Review (ORR) | Operations |  | Date | File |
| Phase D | Mission Readiness Review (MRR) | Mission |  | Date | File |
| Phase E | Deployment | Operations |  | Date | File |
| Phase E | System Recovery | Operations |  | Date | File |
| Phase F | Operations Debrief | Operations |  | Date | File |
| Phase F | Mission Data Analysis | Mission |  | Date | File |
| Phase F | Engineering Data Analysis | Rover |  | Date | File |
| Phase F | Engineering Data Analysis | MOS |  | Date | File |
| Phase F | Final Archival of Data | Mission |  | Date | File |

# Documentation Management

Project documentation shall be organized as follows:

1. All project documentation for Winter 2025 shall be placed in this folder: [Winter 2025 Rover](https://drive.google.com/drive/folders/1xOU46NiRwfGofzCsqkQD7TwQa0YSKaAP?usp=sharing)
2. Mission and Project documentation shall be top-level.
3. Systems shall be organized into their respective folders:
   1. [1. Operations](https://drive.google.com/drive/folders/1pNXJjqfPDv3cLUe014yLInARzou59k_0?usp=drive_link)
   2. [2. Rover](https://drive.google.com/drive/folders/1ECrET5U95UjHMngeedlTfUhXiAKPz_im?usp=drive_link)
   3. [3. MOS](https://drive.google.com/open?id=1eWq-QJDkDq__GSLt6XCtizRvsrEA8RMB)
   4. [9. Testing and Integration](https://drive.google.com/open?id=1rVFRr7uWnpHiB5pTKH_8SPietCOGLPxq)