



2025 Sample Schedule*

July 5 - July 16, 2025

Day One

Arrival of Scholars

Host Campus Tours & Orientation
Introduction to Design Simulation
Mission V-Log: Kickoff
Opening Keynote: *The Business of Space*

Day Two

Design Thinking

Rice Faculty Lecture: Rice Admissions
Rice Graduate Student Panel: Surviving Engineering School
Skills Workshop: Space Challenges & Designer Solutions
Simulation: Identifying the True Problem
Specialty Workshop I: OneOrbit presents Endeavor to the Next Level
Case Study: Career Profiles in Aerospace Engineering

Day Three

at Space Center
Houston

Aerodynamics

Rice Faculty Lecture: Aerodynamics & Rocketry
Simulation: Initial Multi-phase Rocket Design
Specialty Workshop II: Aerofoil Design & Impact on Flight
Mission V-Log: Initial Design Update
Government/Industry Field Excursion I: Airfield/Flight Training

Day Four

at Space Center
Houston

Systems & Operations

Rice Faculty Lecture: Satellite Systems & Operations
Simulation: Satellite Mission Design
Simulation: Prototype Atmospheric Payload Design
Field Work: Solicit Feedback on Design
Speaker Seminar(s) I: Evening with the Experts-Discuss Issues with Space Travel

Day Five

at Space Center
Houston

Orbital Mechanics

Evening Out: Social Field Excursion to Kemah Boardwalk
Skills Workshop: Communication Worlds Away
Simulation: Testing & Adapting Payload Design
Simulation: Design Launch Parameters

**This is a sample schedule of the types of events that may be included in a career focused program and is not intended to represent a specific schedule for the program. All events, speakers, and site visits are subject to confirmation, cancellation, and change by Envision without prior notice.*

Day Six at Space Center Houston	Mission Control Government/Industry Field Excursion II: Day at Space Center Houston Skills Workshop: Data Driven Prototyping Simulation: Finalize Launch Strategy Specialty Workshop III: Team Building Maker Portfolio: Prototype & Mission Updates
Day Seven at Space Center Houston	Satellite Launch Simulation: Final Testing & Adapting Finalize Atmospheric Payload Project Design Simulation: Launch Satellites Simulation: Mission Monitoring & Data Tracking Mission V-Log: Document the Launch
Day Eight	Rocket Challenge Simulation: Satellite Data Review Rice Faculty Lecture: Orbital Mechanics Rocket Challenge: Entry, Decent, Landing Lone Star Flight Museum
Day Nine	Rocket Build Rocket Challenge: Final Rocket Prototyping Panel Speaker(s): Careers in Aerospace Simulation: Validating Rocket Design (Skype Crowdsourcing Event) Mission V-Log: Crowdsourcing Feedback Captured Rocket Challenge: Incorporating Feedback
Day Ten	Rocket Launch Rice Faculty Lecture: Reaching Beyond Earth's Atmosphere (and Returning) NASA Speaker: Space Innovations of the 21 st Century Government/Industry Field Excursion III: Space Industry Corporate Tour & Briefing Rocket Challenge: It's Go Time! Mission V-Log: Capturing the Launch
Day Eleven	Mission Report Out Skills Workshop: Presentation Skills Simulation: Present Findings Mission V-Log: Edit/Polish and Present Gallery Walk: Display Project Work and Findings Closing Keynote: <i>To Infinity and Beyond!</i>
Day Twelve	Farewell & Departure of Scholars Closing Session: Program Debrief