



*Sample Schedule**

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: Design Thinking/Engineering Design Process
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

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

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

Orbital Mechanics

Rice Faculty Lecture: Orbital Mechanics
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** **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** **Career Navigation**
Rice Faculty Lecture: Rice Admissions
Rice Graduate Student Panel: Surviving Engineering School
Simulation: Final Testing & Adapting Finalize Atmospheric Payload Project Design
- Day Eight** **Satellite Launch**
Simulation: Launch Satellites
Simulation: Mission Monitoring & Data Tracking
Mission V-Log: Document the Launch
Evening Out: Social Field Excursion to Kemah Boardwalk
- Day Nine** **Rocket Build**
Simulation: Satellite Data Review
Rocket Challenge: Entry, Decent, Landing
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 21st 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: *To Infinity and Beyond!*
- Day Twelve** **Farewell & Departure of Scholars**
Closing Session: Program Debrief

As always, the well-being of our scholars and staff is our priority. We implement first-rate health, safety, and risk-management protocols into all our programs, based on recommendations from our Health & Safety Team and medical advisors. We're also committed to evolving our policies and protocols to reflect our program partners' requirements, public policy, and the Centers for Disease Control and Prevention (CDC) guidelines. To see our current standards, visit envisionexperience.com/covid-health-and-safety.