



*2022 Sample Schedule**

June 5 – June 16, 2022 | June 19 – June 30, 2022

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
Evening Social: Texas-Sized BBQ
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

- 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
Engineering Lab Tour Rotation – Rice Engineering
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

We are currently evaluating all aspects of our programs and incorporating the most up-to-date health and safety standards. We will continue to make changes as new learnings and guidance evolves from the Centers for Disease Control and Prevention (CDC) and our program partners. Stay informed by visiting our website at envisionexperience.com/covid-health-and-safety, where you will find FAQs and procedural details highlighting our health and safety protocols.