



2019 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 CanSat 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 CanSat 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
Engineering Lab Tour Rotation – Rice Engineering
Simulation: Final Testing & Adapting CanSat 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 Houston Attraction
- Day Nine Rocket Build**
Simulation: Satellite Data Review
Rocket man Challenge: Entry, Decent, Landing
Rocket man Challenge: Final Rocket Prototyping
Panel Speaker(s) – Careers in Aerospace
Simulation: Validating Rocket Design (Skype Crowdsourcing
Event)
Mission V-log: Crowdsourcing Feedback Captured
Rocket man 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 man 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