Mars Transfer Vehicle Concept
Utilizing Re-Configurable Building System

Stacy Henze
ARCH 7610 Space Architecture Studio
Spring 2012

Geometry Benefits:
- Work surfaces wrap around spaces. Workflow can flow from one surface to another. No arbitrary ceilings or floors.
- The hexagonal geometry allows for a more efficient nesting within a cylindrical volume in cross section.
- The hexagonal geometry does not exist in the longitudinal direction allowing for easy self-orientation within a space.
- The structural system allows for easy modification and reconfiguration of spaces if needed.

Final Design
3/4 Perspective View
Final Design
Cross Sectional View
Interior Perspectives