Much of the exam will be like the Quizzes; there will be true/false and multiple choice questions and matching problems. There will be some short answer/essay questions.

**Ancient View of the Earth and Science Advancement**
Aristotle – Geocentric Universe model
Eratosthenes - measured Earth’s circumference
Geography Begins – Hipparchus, Phei Hsui, Ptolemy
The Great Interruption – Geography of the Imagination
Three Hallmarks of Science
Main accomplishments of: Copernicus, Tycho, Kepler, Galileo, Newton, Maxwell, Einstein
What was view of space-time from Newton? Einstein?

**Viking Era**
Fall of Rome and Great German Migration
Byzantine Empire (Eastern Europe) and Carolingian Empire (Western Europe)
Charlemagne’s Death – formation of modern Western Europe
Development of a Knorr (ship technology, what was new and critical?)
Viking Raids in England and France
Vikings spread throughout Russia to Constantinople to all of Europe
Viking Excursions to Iceland, Greenland, and Vinland (North America!)
Assimilation of Vikings via Christianity and Monarchy Governments
Mediterranean Trade Route Monopoly – Venice, Pisa, Genoa

**Paths to the East**
Crusades
Christian Missions / Muslim Pilgrims
The Silk Road
The Mongols – their empire, the iron curtain comes down (opens) - consequences
Marco Polo – travels and how story became known
Chinese Rebellion – Yuan hang and moon cookies
The fall of the Mongols
The Iron curtain comes back up (closes)- consequences

**The 1300s Onward**
Ptolemy’s map of the world revised
Fra Mauro’s map of the world, significance
Why the Portuguese went forth to the seas first (4 reasons)
Prince Henry the Navigator – and his components of modern research center
Development of the Caravel (ship technology- what was new and critical?)
Significance of Cape Bajador
King Alfonso V, King John II, King Manual I (what did each contribute?)
Bartholomeu Dias voyages – purpose, accomplishments
Vasco da Gama voyages – why voyage delayed for 10 years, purpose, accomplishments
Columbus voyages and accomplishments
The Portuguese - Spanish cold war – Treaty of Tordesillas, Treaty of Zaragoza

(continued on next page)
The Chinese and Arabs
Why not the Arabs?
China- eunuchs versus intellectuals and power structure of government
Cheng Ho (Zheng He) voyages – purpose, accomplishments
Chinese Tributary System
The Great Retreat, why did it happen?
A Nation without Wants – consequences of Retreat and Isolationism of China

Putting it altogether. Short Essay Question to Integrate, Compare, and Contrast
Be able to compare and contrast the subsequent history of the world based upon the sea-faring programs of the Vikings and Europeans (conquest), those of the Chinese (tributary system), and the lack of such programs by the Muslims. What is meant by the professor’s phrase “Go forth, or be carved up!”? Be able to discuss why (the long-term implications) we are studying these examples of world history in view of the last remaining voyages of discovery – in space!

THE BELOW MATERIAL IS NOT OVERED ON MIDTERM 1 (Spring 2017)

Sea Paths to Everywhere
Ptolemy’s geographic mistakes that Columbus used to sell is Enterprise to the Indies
Columbus’s discoveries and voyages
Amerigo Vespucci – purpose, voyages
Ferdinand Magellan – purposes, voyages
Captain Cook – voyages, science, accomplishments with scurvey
Knowledge becomes Merchandise, examples
Political climate – secrecy reigns, examples

In thinking of this, consider the “hubs” of infrastructure of communications (internet), transportations systems (roads, airs, shipping), and economic “health” – where are they geographically? Why are they there geographically?