

# Reading Quiz 0.2 part II, and 1.1 - INTD290

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## 1 How to Submit this Assignment

Once you answer the questions, take a picture of your work and convert it to a PDF. Submit the PDF to the assignment link on Moodle.

## 2 Nueva España

1. Discuss some examples of the book trade between France, Spain, and New Spain. What is the implication for the growth of Enlightenment knowledge in New Spain?

The effect of the growth of Enlightenment in New Spain was the take over of science, it was the first time that science really was adopted in New Spain. This expanded the knowledge Enlightenment everywhere, which included the book trade between France, Spain, and New Spain. The goal was to continue Europe's knowledge in the places they colonized, but what actually happened was New Spain redesigned their scientific knowledge and learned it in their own way.

- 2.

## 3 Nueva Granada



Figure 1: A map of the Northern edge of South America and the Caribbean.

1. On Fig. 1, label the locations of the following cities:

- Quito
- Santa Fe (de Bogotá)
- Caracas

2. List the universities in each of the above cities. Which ones were founded with Enlightenment ideals in mind, and at which ones were taught concepts from Newtonian (as opposed Scholastic) physics?

## 4 Comparisons of Adoption of Scientific Revolution

1. What do the contrasted examples of José Ignacio Bartolache and José Celestino Mutis say about the acceptance of the Scientific Revolution in the different *virreinatos*? Give examples of the accomplishments of each person, and give context for the acceptance of the work of each in their respective *virreinato*.

Mutis really was the birth of physics in New Granada, while Bartolache had to protect himself against the church and had to push his own scientific discoveries to be able to learn. He had one of the biggest private library collections at the time and had many of his own scientific discoveries. Mutis was a teacher and translator, he began by teaching new concepts of physics and astronomy to the people of New Granada, he was given these opportunities while Bartolache had to actively protect himself from the church.

2. Discuss the educational roles of the Jesuits and the Dominicans in Nueva Granada<sup>1</sup>. When did the Jesuits leave Nueva Granadan education, and why? How did the Dominicans operate educational institutions as they asserted control over various universities?
3. Eventually, the Spanish Crown took control of education. How did this happen, and more importantly, why would the Crown wish to do this? Now turn your attention to the time before the Spanish Crown took over education. **This one is worth a bonus point.** *How did control of education grant political control? Why would the power to confer degrees give someone political power?*

## 5 Advent of Newtonian Physics in Nueva Granada

1. Discuss the significance of the geodetic expedition of Charles de la Condamine in 1735. What was the goal? What were the cultural outcomes for Creole peoples, according to the writings of Alexander von Humboldt?

2. Which Catholic religious order first taught Newtonian physics in Nueva Granada?

- Carmelites
- Dominicans
- Franciscans
- Jesuits

Did this order always teach Newtonian physics?

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<sup>1</sup>It might be helpful to know: Dominican universities were sometimes named *San Tomás*, after Saint Thomas Aquinas (not Saint Thomas the Apostle), because Saint Thomas Aquinas was a Dominican. *San Ignacio de Loyola* was the founder of the Jesuits, and some Jesuit universities are named *San Ignacio*.