# Engineering Concepts

# Compare and Contrast Careers in Engineering

Choose 2 of the following engineering disciplines that particularly interest you:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Mechanical | Chemical | Electrical | Civil | Geological |
| Aerospace | Biomolecular | Computer | Structural | Petroleum |
| Biomedical | Environmental | Electronics | Architectural | Nuclear |
| Biomechanical | Material | Robotics |  | Marine |
| Automotive | Agricultural | Microelectronic |  | Ceramics |
| Manufacturing | Textile | Mechatronics |  | Metallurgical |
| Systems | Nanotechnology | Industrial |  | Geomatics |

You are to compare and contrast these 2 disciplines with a minimum of the following criteria:

* Educational and licensing requirements
* Top area colleges offering degrees in field
* Employment facts
* Job outlook
* Job description
* Earnings

You may choose one of the following types of organizers to display the information: a Venn Diagram, a Side-by-Side Diagram, Top Hat Organizer, or a Y Organizer.

 

(The Strategic Teacher, by Silver H., Strong, R., and Perini, M., pg 77)

After examining the detailed content, write a one paragraph reflective essay on your personal thoughts concerning which discipline you would currently be more interested in pursuing.