

**Blue Marble University**  
**40 Hillsborough Street**  
**Roseau, 00152**  
**Commonwealth of Dominica**  
**<http://bluemarbleuniversity.com>**

**Program Title: Bachelor of Science (B.S.) Industrial Technology**  
**120 Credits Bachelor Degree**

**Bachelor of Science (B.S.) in Industrial Technology**  
**120 Standard U.S. Credits**

**Term 1: 15 Credits**

**English Writing-** Writing a College Research Report with References. **3 Credits.**

**Internet Research: Business and Technical-** How to conduct internet research for technical information and product/software apps. **3 Credits.**

**English Literature-** Selected readings and study of English literature. **3 Credits.**

**Communications 1-** Introduction to Website Building. The course covers communicating via web presence, the importance of a scholarly digital fingerprint available for the world to see. The elements of web page design and kinds of content, including a review of CMS (content management systems) including Wordpress. **3 Credits.**

**Communications 2 Lab-** With staff guidance and supervision, the student will design and launch a personal website on the Wordpress platform to display their interests, hobbies, educational history and accomplishments. Video uploading, use of images also covered. **3 Credits.**

**Term 2: 15 Credits**

**College Mathematics-** College math including probability and statistics, analytical geometry, and basic algebra. The course also touches upon infinitesimal calculus and applied mathematics. **3 Credits.**

**Financial Accounting-** Accounting for non-accountants includes analysis of Financial Statements. Banking and Credit Card Issues, credit reporting and collections.  
**3 Credits.**

**Art Appreciation-** Foundational course in analyzing the emotional and visual impact of art.  
**3 Credits.**

**History of Art-** The course covers the history of art from the Egyptian Period to modern Pop Art. The course includes some text material, to be supplemented by the students internet research to expand topics in greater detail. **3 Credits.**

**Religion-** Study of the Quran and comparison to Bible texts. **3 Credits.**

**Term 3: 15 Credits**

**World History-** The course covers the high points of World History with emphasis on the world wars. Excerpts from Will Durant, "The History of Civilization" are studied. **3 Credits.**

**Introduction to Science Careers-** This course introduces the student to various science careers using various sources as well as a study of college and university course lists to assist the student in selecting a Major. After selection of a major, the student curriculum will be developed accordingly.

**3 Credits.**

**Business Law-** Contracts, Negligence, Agency, UCC, and other business law topics.

**3 Credits.**

**Cultures-** Main world cultures are studied, with emphasis on the lasting contributions to civilization made by various cultures, as described in the eleven volume treatise: Will Durant, "The History of Civilization"

**3 Credits.**

**Biology Field Studies-** This course introduces the student to biology field studies in microbiology, insect classification and mounting, and conducting simple experiments with a microscope. The collection and review of field data is emphasized. A bacterial investigation is included. The purpose of the course is to understand scientific data collection as well as hands on field experience. **3 Credits.**

#### **Term 4: 15 Credits**

**Research Methodology and Writing-** The Scientific Method is studied along with scientific report writing and referencing. **3 Credits.**

**Home Chemistry Experiments [or Home Biology Experiments]-** Instructor guided experiments that students complete at home with special illustrated text. Nominal cost for purchase of supplies and equipment required. **3 Credits.**

**Diversity in Weddings and Marriage Customs Worldwide-** A comparative study of U.S. and International weddings and marriage customs. **3 Credits.**

**Foreign Language** - Choice of language studies offered. **3 Credits.**

**Computer Skills-** A course teaching basic computer skills in word processing, image handling, spreadsheets, slide presentations, video production and other relevant topics. **3 Credits.**

#### **End of General Education Courses: 60 Credits**

#### **Term 5: 15 Credits**

#### **Begin Major Program of Studies**

**Food Technology:** An overview of quality control practices and manufacturing processes. **3 Credits.**

**Food Preservation and Packaging:** Kinds of packaging and preservation techniques with emphasis on meats, seafood, vegetables, including costs analyses.. **3 Credits.**

**Food Distribution:** The state of the industry relating to distribution processes. The course includes consideration of import and export procedures and regulations regarding rice, wheat, corn and other commodities. **3 Credits.**

**Food Storage:** A discussion of all the different types of storage techniques relating to different food and commodities. The course also covers global food supplies and what the future holds for food shortages. **3 Credits.**

**Water Resources:** What they are, who has them, and how control is effected. This course necessarily relates to natural water resources. The course introduces the business of water. **3 Credits.**

#### **Term 6: 15 Credits**

**Water Chemistry:** The properties of water, including natural and artificial additives, and contaminants. Testing and analysis procedures. **3 Credits.**

**Water Production and Filtration Technology.** Manufacturing processes and filtration technologies. **3 Credits.**

**Saltwater Separation:** the production of water from the sea. Large scale facilities are studied and possible new approaches are investigated. Also reviewed is the means of obtaining water from glaciers, the north and south poles. **3 Credits.**

**Wastewater:** The water nobody wants. How to treat it using chemical and biological methods. How to get clean water from waste water. A review of companies engaged in this field, as well as the consideration of cost analyses, and the new technologies. **3 Credits.**

**Global Transportation Systems:** Overview and identity of trade journals. **3 Credits.**

#### **Term 7: 15 Credits**

**River Transport:** Moving goods on the major international and domestic rivers. **3 Credits.**

**Modern Railroading.** The systems, the new technologies, the biggest lines, international and domestic. Cross border connections, oil shale and oil products, foods, and cargo. **3 Credits.**

**Ocean Shipping:** Includes tanker shipping and leasing. The purpose of the course is to investigate the special language and procedures involved in this industry, including insurance issues. **3 Credits.**

**Air Cargo:** What can and can't be shipped. Methods of shipping and packaging for shipping. **3 Credits.**

**Shipping Paperwork and Freight Forwarding:** The business of International and cross-border freight forwarding is presented. **3 Credits.**

#### **Term 8: 15 Credits**

**Big Oil:** An outline of this massive global industry that is still making ordinary people wealthy is presented. Topics covered include: the basics of oil and gas production from reservoir to sales point; common terminology for equipment; basic oil and gas field concepts, the wellhead and other equipment. Also studied- **Oil Reserves and Sales:** How oil is sold internationally, the "price of a barrel" of oil, oil as a commodity. **3 Credits.**

**Oil and Gas Transport:** Transmission and processing. **3 Credits.**

**Oil Chemistry:** A massive topic, we focus on the business aspects and companies involved in producing products from oil and gas. **3 Credits. Grade**

**Shale oil and Fracking:** An exploration of the technique and controversies. **3 Credits.**

**Clean Coal Processing:** The techniques for extracting oil and energy from coal. A comparison of costs of processing oil and coal is made. **3 Credits.**

**Total Number of Credits: 120**

Notes:

**Credits:** **1 Blue Marble University Credit = 1 USA Semester Credit.** Although registered in the Commonwealth of Dominica, we follow the **USA Code of Federal Regulations** requiring "one hour of classroom or direct faculty instruction [or 60 minutes of preparation in a correspondence course] and a minimum of two hours of out of class student work each week for approximately fifteen weeks for one semester or trimester hour of credit", which translates to 15 hours of notational learning plus 30 hours of study. **Each Term is 15 weeks.** Blue Marble University operates all year round with no breaks.

Each term is 15 weeks, comparable to a standard US semester of 15 weeks. Consequently, each student can complete the equivalent of three 15-week terms per year.

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