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[1][2][3] Branches of applied science [edit] Applied cryptography – applications of cryptography. Applied science – application of scientific knowledge transferred into a physical environment. Actuarial science — application of mathematical and statistical methods to assess risk in the insurance, finance, and other industries Agricultural science • Agronomy – science and technology of producing and using plants for food, fuel, feed, fiber, and reclamation. Animal husbandry – agricultural practice of breeding and raising livestock. Aquaculture – also known as aquafarming, is the farming of aquatic organisms such as fish, crustaceans, molluscs and aquatic plants.[4][5] Algaculture – form of aquaculture involving the farming of species of algae. • Mariculture – cultivation of marine organisms for food and other products in the open ocean, an enclosed section of the ocean, or in tanks, ponds or raceways which are filled with seawater. Agriculture – science of farming Cuniculture – also known as rabbit farming, is the breeding and raising domestic rabbits, usually for their meat or fur. Fungiculture – process of producing food, medicine, and other products by the cultivation of mushrooms and other fungi. • Heliciculture - also called snail farming, is the process of farming or raising land snails specifically for human consumption, and more recently, to obtain snail slime for cosmetics use. Olericulture – science of vegetable growing, dealing with the culture of non-woody (herbaceous) plants for food. • Sericulture – also called silk farming, is the rearing of silkworms for the production of silk. Although there are several commercial species of silkworms, Bombyx mori is the most widely used and intensively studied. Food science – study concerned with all technical aspects of foods, beginning with harvesting or slaughtering, and ending with its cooking and consumption, an ideology commonly referred to as "from field to fork". It is the discipline in which the engineering, biological, and physical sciences are used to study the nature of foods, the causes of deterioration, the principles underlying food processing, and the improvement of foods for the consuming public. Forestry – art and science of managing forests, tree plantations, and related natural resources. • Arboriculture – cultivation, management, and study of individual trees, shrubs, vines, and other perennial woody plants. • Silviculture – practice of controlling the establishment, growth, composition, health, and quality of forests to meet diverse needs and values. It includes regenerating, tending and harvesting techniques. Horticulture – art, science, technology and business of intensive plant cultivation for human use Floriculture – discipline of horticulture concerned with the cultivation of flowering and ornamental plants for gardens and for floristry, comprising the floral industry. Hydroculture – growing of plants in a soilless medium, or an aquatic based environment. Plant nutrients are distributed via water. Hydroculture is aquatic horticulture. Hydroponics – subset of hydroculture and is a method of growing plants using mineral nutrient solutions, in water, without soil. Permaculture – branch of ecological design and ecological engineering, which develop sustainable human settlements and self-maintained agricultural systems modeled from natural ecosystems. Architecture – process and product of planning, designing and construction. Architectural works, in the material form of buildings, are often perceived as cultural symbols and as works of art. • Architectural engineering – application of engineering principles and technology to building design and construction. • Building science – collection of scientific knowledge that focuses on the analysis and control of the physical phenomena affecting buildings. Computing technology (outline) – computer hardware and software, and computing methods. • Education – any act or experience that has a formative effect on the mind, character, or physical ability of an individual. In its technical sense, education is the process by which society deliberately transmits its accumulated knowledge, skills, and values from one generation to another. Electronics – branch of physics, engineering and technology dealing with electrical circuits that involve active electrical components such as vacuum tubes, transistors, diodes and integrated circuits, and associated passive interconnection technologies. • Energy technology (outline) – interdisciplinary engineering science having to do with the efficient, safe, environmentally friendly and economical extraction, conversion, transportation, storage and use of energy, targeted towards yielding high efficiency whilst skirting side effects on humans, nature and the environment. Energy storage (outline) – accomplished by devices or physical media that store some form of energy to perform some useful operation at a later time. A device that stores energy is sometimes called an accumulator. Engineering (outline) – discipline, art, skill and profession of acquiring and applying scientific, mathematical, economic, social, and practical knowledge, in order to design and build structures, machines, devices, systems, materials and processes that safely realize improvements to the lives of people. Aerospace engineering – Aerospace engineering is the primary branch of engineering concerned with the design, construction, and science of aircraft and spacecraft. It is divided into two major and overlapping branches: aeronautical engineering and astronautical engineering. The former deals with craft that stay within Earth's atmosphere, and the latter with craft that operate outside it. Agricultural engineering – engineering discipline that applies engineering science and technology to agricultural production and processing. Agricultural science – broad multidisciplinary field that encompasses the parts of exact, natural, economic and social sciences that are used in the practice and understanding of agriculture. • Applied engineering – field concerned with the application of management, design, and technical skills for the design and integration of systems, the execution of new product designs, the improvement of manufacturing processes, and the management and direction of physical and/or technical functions of a firm or organization. • Bioengineering – application of concepts and methods of biology (and secondarily of physics, chemistry, mathematics, and computer science) to solve real-world problems related to the life sciences and/or the application thereof, using engineering's own analytical and synthetic methodologies and also its traditional sensitivity to the cost and practicality of the solution(s) arrived at. Biomedical engineering – application of engineering principles and design concepts to medicine and biology. • Chemical engineering – application of physical science (e.g., chemistry and physics), and life sciences (e.g., biology, microbiology and biochemistry) with mathematics and economics, to the process of converting raw materials or chemicals into more useful or valuable forms. • Civil engineering – deals with the design, construction, and maintenance of the physical and naturally built environment, including works like roads, bridges, canals, dams, and buildings. Civil engineering has many sub-disciplines. Computer engineering – design and development of computer systems • Artificial intelligence (outline) – intelligence of machines and the branch of computer science that aims to create it. • Electrical engineering – field of engineering that generally deals with the study and application of electricity, electronics and electromagnetism. Engineering technology (outline) – development and implementation of existing technology within a field of engineering. Environmental engineering science – multidisciplinary field of engineering science that combines the biological, chemical and physical sciences with the field of engineering. Industrial engineering – branch of engineering dealing with the optimization of complex processes or systems

> and electronic devices to monitor, model and conserve the natural environment and resources, and to curb the negative impacts of human involvement. Fisheries science – academic discipline of managing and understanding fisheries. It is a multidisciplinary science, which draws on the disciplines of limnology, oceanography, freshwater biology, marine biology, conservation, ecology, population dynamics, economics and management to attempt to provide an integrated picture of fisheries. • Forensic science (outline) – application of a broad spectrum of sciences to answer questions of interest to a legal system. This may be in relation to a crime or a civil action. Health science – application of science, technology, engineering or mathematics to the delivery of healthcare Anatomy – branch of biology and medicine that is the consideration of the structure of living things.

Conservation medicine – emerging, interdisciplinary field that studies the relationship between human and animal health, and

• Dentistry – branch of medicine that is involved in the study, diagnosis, prevention, and treatment of diseases, disorders and

Optometry – health care profession concerned with the health of the eyes and related structures, as well as vision, visual

• Medicine – science of healing. To elaborate, it is the applied science of the diagnosis, treatment, and prevention of disease. It

encompasses a variety of health care practices evolved to maintain and restore health by the prevention and treatment of

• Biomedicine – branch of medical science that applies biological and physiological principles to clinical practice.

Cardiology – medical specialty dealing with disorders of the heart (specifically the human heart).

Ophthalmology – branch of medicine that deals with the anatomy, physiology and diseases of the eye.

Pediatrics – branch of medicine that deals with the medical care of infants, children, and adolescents.

Psychiatry – medical specialty devoted to the study and treatment of mental disorders.

conditions of the oral cavity, maxillofacial area and the adjacent and associated structures and their impact on the human body.

Control engineering – engineering discipline that applies control theory to design systems with desired behaviors.

Language engineering – deliberate effort to influence the function, structure, or acquisition of languages or language variety

Materials science and engineering – interdisciplinary field applying the properties of matter to various areas of science and

Mechanical engineering – discipline of engineering that applies the principles of physics and materials science for analysis,

• Mining engineering – engineering discipline that involves the practice, the theory, the science, the technology, and application

Nuclear engineering – branch of engineering concerned with the application of the breakdown (fission) as well as the fusion of

Polymer engineering – subfield of materials science concerned with polymers, primarily synthetic polymers such as plastics.

Engineering physics – study of the combined disciplines of physics, engineering and mathematics in order to develop an

Security engineering – focuses on the security aspects in the design of systems that need to be able to deal robustly with

and maintenance of software, and the study of these approaches; that is, the application of engineering to software.

Software engineering (outline) – application of a systematic, disciplined, quantifiable approach to the development, operation,

• Systems engineering – interdisciplinary field of engineering focusing on how complex engineering projects should be designed

Environmental science – multidisciplinary academic field that integrates physical, biological and information sciences to the study

Conservation biology – the study of the conservation of nature and of Earth's biodiversity with the aim of protecting species,

Environmental technology – application of one or more of environmental science, green chemistry, environmental monitoring

atomic nuclei and/or the application of other sub-atomic physics, based on the principles of nuclear physics.

engineering. This scientific field investigates the relationship between the structure of materials at atomic or molecular scales

Ceramic engineering – science and technology of creating objects from inorganic, non-metallic materials.

Marine engineering – engineering of boats, ships, oil rigs and any other marine vessel

design, manufacturing, and maintenance of mechanical systems.

understanding of the interrelationships of these three disciplines.

of the environment, and the solution of environmental problems.

systems, and vision information processing in humans.

Pathology – precise study and diagnosis of disease.

maintain, or recover optimal health and quality of life.

over time, taking into account the risks entailed in their projects.

by a disease, or resulting from an abnormal syndrome.

Nutrition – studies the relationship between diet and states of health and disease.

Pharmacology – branch of medicine and biology concerned with the study of drug action.

of extracting and processing minerals from a naturally occurring environment.

possible sources of disruption, ranging from natural disasters to malicious acts.

Human anatomy – scientific study of the morphology of the adult human.

possible.

within a speech community.

and their macroscopic properties.

and managed over their life cycles.

their habitats, and ecosystems.

environmental conditions.

illness in human beings.

human body.

living organisms.

system of males.

and effectively.

managers.

and sales.

Metrology

within an organization.

for the stakeholders.

"pure" physics and engineering.

occurring in outer space.

types of geographical data.

History of artificial intelligence

History of ceramic engineering

History of computing technology

History of computing

History of electronics

History of energy

History of forestry

History of medicine

History of optics

Fachhochschule

Institute of technology

Applied science technologist

Fraunhofer Society

Applied science schools [edit]

University of applied sciences (Finland)

Applied science organizations [edit]

Applied science publications [edit]

American Journal of Applied Sciences

Saskatchewan Applied Science Technologists & Technicians

Foresight: The International Journal of Applied Forecasting

International Journal of Applied Management and Technology

International Journal of Applied Mathematics and Computer Science

• Intégral: The Journal of Applied Musical Thought

History of energy storage

History of forensic science

History of materials science

History of nanotechnology

History of nuclear technology

History of software engineering

Applied science education [edit]

Timeline of artificial intelligence

History of computing hardware

Early electronic components

History of electronic engineering

History of environmental engineering

construction of instruments that use or detect it.

reactors, and from gun sights to nuclear weapons.

Astronautics – science of spacefaring and spaceflight.

Astronomy – the study of natural objects and phenomena.

Quantum mechanical effects are important at this quantum-realm scale.

information describing the Earth, its physical features and the built environment.

Manufacturing engineering – engineering discipline of creating quality products from raw materials in the most efficient way

 Dermatology – branch of medicine dealing with the skin and its diseases, a unique specialty with both medical and surgical aspects. Endocrinology – medical specialty dealing with the endocrine system, its diseases, and its specific secretions (hormones), and the interactions of these with all aspects of bodily functioning Gastroenterology – branch of medicine whereby the digestive system and its disorders are studied. Gynecology – medical practice dealing with the health of the female reproductive system (uterus, vagina, and ovaries). Immunology – study of the immune system. Internal medicine – medical specialty dealing with the prevention, diagnosis, and treatment of adult diseases. Neurology – medical specialty dealing with disorders of the nervous system.

Pathophysiology – study of the changes of normal mechanical, physiological, and biochemical functions, either caused

Radiology – medical specialty that employs the use of imaging to both diagnose and treat disease visualised within the

Toxicology – branch of biology, chemistry, and medicine concerned with the study of the adverse effects of chemicals on

Urology – medical and surgical specialty that focuses on the urinary tracts of males and females, and on the reproductive

Nursing – Nursing is a healthcare profession focused on the care of individuals, families, and communities so they may attain,

Pharmacy – health profession that links the health sciences with the chemical sciences and it is charged with ensuring the safe

and effective use of pharmaceutical drugs. Physical therapy – health profession that promotes, maintains and restores health through physical examination, diagnosis, intervention, patient education, rehabilitation, and prevention. Physiology – science of the function of living systems. Veterinary medicine – branch of science that deals with the prevention, diagnosis and treatment of disease, disorder and injury in non-human animals. Applied linguistics – interdisciplinary field of study that identifies, investigates, and offers solutions to language-related real-life problems. • Management (outline) – getting people together to accomplish desired goals and objectives using available resources efficiently

Accounting – process of communicating financial information about a business entity to users such as shareholders and

• Marketing – social and managerial processes by which products, services and value are exchanged in order to fulfil

• Finance – addresses the ways in which individuals, businesses and organizations raise, allocate and use monetary resources

individuals' or group's needs and wants. These processes include, but are not limited to, advertising, promotion, distribution,

Organizational behavior – field of study that investigates the impact that individuals, groups and structures have on behavior

• Human resource management – strategic approach to the effective management of people in a company or organization

Operations – those ongoing recurring (cyclic) activities involved in the running of a business for the purpose of producing value

Strategic management – field that deals with the major intended and emergent initiatives taken by general managers on behalf

of owners, involving utilization of resources, to enhance the performance of firms in their external environments.

Applied mathematics – branch of mathematics concerned with mathematical methods that are typically used in science,

• Microtechnology – technology with features near one micrometre (one millionth of a metre, or 10⁻⁶ metre, or 1µm).

engineering, business, and industry. Thus, "applied mathematics" is a mathematical science with specialized knowledge.

Military science – study of the technique, psychology, practice and other phenomena which constitute war and armed conflict.

 Military organization – structuring of the armed forces of a state so as to offer military capability required by the national defence policy. Military history – humanities discipline within the scope of general historical recording of armed conflict in the history of humanity, and its impact on the societies, their cultures, economies and changing intra and international relationships. Military engineering – the art and practice of designing and building military works and maintaining lines of military transport and communications. • Military recruit training - Recruit training, more commonly known as basic training and colloquially called boot camp, is the initial indoctrination and instruction given to new military personnel, enlisted and officer.

Military strategy and tactics – set of ideas implemented by military organizations to pursue desired strategic goals

Applied physics – physics intended for a particular technological or practical use. It is usually considered as a bridge between

• Optics – branch of physics which involves the behavior and properties of light, including its interactions with matter and the

 Nanotechnology (outline) – study of manipulating matter on an atomic and molecular scale. Generally, nanotechnology deals with developing materials, devices, or other structures possessing at least one dimension sized from 1 to 100 nanometres.

Nuclear technology (outline) – technology that involves the reactions of atomic nuclei. Among the notable nuclear technologies

are nuclear power, nuclear medicine, and nuclear weapons. It has found applications from smoke detectors to nuclear

Space science – discipline encompassing the fields of study that involve space exploration and the study of natural phenomena

Space exploration – the discovery and exploration of celestial structures in outer space by developing space technology.

Spatial science – academic discipline incorporating fields such as surveying, geographic information systems, hydrography and

GIS – geographic information system is a system designed to capture, store, manipulate, analyze, manage, and present all

Remote sensing – acquisition of information about an object or phenomenon, without making physical contact with the object.

cartography. Spatial science is typically concerned with the measurement, management, analysis and display of spatial

 Photogrammetry – practice of determining the geometric properties of objects from photographic images. History of applied science [edit] History of applied linguistics History of applied mathematics History of applied physics

Degrees and certificates [edit] Bachelor of Applied Science – undergraduate degree awarded for a course of study that generally lasts three to four years in the United Kingdom and Australia, and four to six years in Canada, the Netherlands and the United States. Applied science technician

 ITL – International Journal of Applied Linguistics Japanese Journal of Applied Physics Journal of Applied Behavior Analysis • Journal of Applied Biomechanics Journal of Applied Biomedicine

Journal of Applied Corporate Finance

Journal of Applied Ecology

Journal of Applied Econometrics

Journal of Applied Electrochemistry

Journal of Applied Economics

 Journal of Applied Gerontology Journal of Applied Horticulture

Journal of Applied Ichthyology

Journal of Applied Philosophy

Journal of Applied Physiology

Journal of Applied Physics

Journal of Applied Developmental Psychology

Journal of Applied Mathematics and Mechanics

Journal of Applied Meteorology and Climatology

Journal of Applied Non-Classical Logics

International Journal of Applied Philosophy

 Journal of Applied Psychology Journal of Applied Social Psychology Journal of Applied Social Science Journal of Applied Toxicology

· Outline of earth science

Journal of Applied Polymer Science

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Outline of formal science

Outline of social science

Outline of technology

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• The Journal of Applied Behavioral Science See also [edit] Outline of science Outline of natural science Outline of physical science

2. ^ "... modern science is a discovery as well as an invention. It was a discovery that nature generally acts regularly enough to be described by laws and even by mathematics; and required invention to devise the techniques, abstractions, apparatus, and organization for exhibiting the regularities and securing their law-like descriptions." —p.vii, J. L. Heilbron, (2003, editor-in-chief). The Oxford Companion to the History of Modern Science. New York: Oxford University Press. ISBN 0-19-511229-6. 3. ^ "science" 2. Merriam-Webster Online Dictionary. Merriam-Webster, Inc. Retrieved 2011-10-16. "3 a: knowledge or a system of knowledge covering general truths or the operation of general laws especially as obtained and tested through scientific method b: such knowledge or such a system of knowledge concerned with the physical world and its phenomena" 4. ^ Environmental Impact of Aquaculture ∠ 5. Aquaculture's growth continuing: improved management techniques can reduce environmental effects of the practice.(UPDATE)."

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