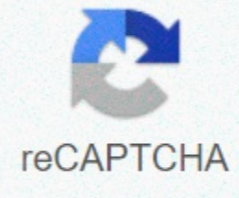




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## What is the importance of organic chemistry in pharmacy

Top reviews Most recent Top reviews NOTE: Due to the university's efforts to reduce the risk and spread of COVID-19, Oregon State's on-campus summer and fall chemistry labs are subject to change. Please refer to the Ecampus Schedule of Classes, or contact the Department of Chemistry for more details at [chemistry.ecampus@oregonstate.edu](mailto:chemistry.ecampus@oregonstate.edu). Oregon State's commitment to outstanding teaching, experiential learning and advising have set its online chemistry courses apart. OSU Ecampus now offers some of the highest quality online chemistry courses in the country. Read more » Your pathway to degree completion and career development runs through Oregon State University's Department of Chemistry, where interactive teaching techniques and opportunities to hone your professional skills are brought to life in a series of rigorous online courses and labs. Delivered online by nationally ranked Oregon State Ecampus, these course and lab sequences for science, non-science and engineering majors are all developed and taught by world-class OSU, and they are delivered by chemistry faculty in a flexible online format that gives you the ability to keep moving forward. Complete chemistry course listing Course number Description CH 110 CH 110 - ROYGBIV: The Chemistry of Colors is an introduction to basic chemistry concepts and their importance in understanding the science behind color. Students will collect, analyze and draw defensible conclusions from experimental data on a variety of concepts. The concepts can also be applied to a variety of topics including, history, art, botany and cell biology. This class includes a mail order lab component (estimated cost: \$112.50) that is shipped to the student. CH 121, 122, 123 General Chemistry for non-science majors (online labs included) General Chemistry for non-science majors is a sequence for students in a variety of the science and health-related fields. Students with majors in physical science, biological science, environmental sciences, health, exercise, nutrition, nursing and natural resources may require this sequence in their program of study. The full sequence consists of three quarter terms: CH 121, CH 122 and CH 123. CH 231, 232, 233 &CH 261, 262, 263 General Chemistry for science majors (optional in-person labs) General Chemistry for science majors focuses on general chemistry concepts and is structured toward students majoring in most sciences, pharmacy, and chemical, biological and environmental engineering. CH 261, 262 and 263 are the corresponding labs for this online sequence. CH 201, 202 Chemistry for Engineering MajorsGeneral chemistry for students in a variety of engineering disciplines, including computer science, electrical, mechanical and general engineering. CH 130 General Chemistry of Living Systems (online labs included) CH 130 – General Chemistry of Living Systems (4). This one-term survey course provides an introduction to organic chemistry and the chemistry of biological systems. It fulfills requirements for many majors in the health professions. All components of the course, including the lab experience, are completed online. The course covers: acids and bases; alkanes; alkenes; alkynes; aromatic compounds; alcohols and ethers; amines and amides; aldehydes and ketones; carboxylic acids and esters; carbohydrates; lipids; amino acids and proteins; enzymes; biochemical energy; nucleic acids and protein synthesis. CH 140 General, Organic, and Biological Chemistry (online labs included) CH 140 – General, Organic, and Biological Chemistry (6). Students who require only "one semester of chemistry with labs" should consider taking this class. This 6 quarter-credit class follows OSU's quarter schedule (10 weeks plus finals) and could transfer to a semester school as 4 semester credits. \* Examples of majors requiring one semester of chemistry include: dental hygiene, dietetics, exercise science and some nursing programs. This class gives students a foundation in general chemistry and introduces important topics related to the chemistry of living systems. The lab component is included in the course and can be completed fully online. Topics include measurement, energy and matter, nuclear chemistry, bonding, gases, solutions, rates and equilibrium, acids and bases, organic compounds and reactions, carbohydrates, lipids, proteins, enzymes, nucleic acids and protein synthesis, and metabolism. CH 331, 332, 337 Organic Chemistry Organic Chemistry is an upper-level sequence for students in a variety of science and health-related fields including dentistry, medicine, optometry, pharmacy, chemical engineering, as well as students not majoring in chemistry who require these additional chemistry training courses in their program of study. CH 390 Environmental Chemistry CH 390 – Environmental Chemistry (3). Sources, reactions, transport, effects, and fates of chemical species in water, soil, air, and living environments and the effects of technology thereon. CH 411 Inorganic Chemistry CH 411 – Inorganic Chemistry (3). Fundamental principles of inorganic chemistry including atomic structure, bonding models for molecules and solids, symmetry, acid/base chemistry, oxidation-reduction, and metal-ligand complexes. CH 440, 441, 442 Physical Chemistry CH 440, CH 441, CH 442 - Physical Chemistry (3). Thermodynamics, electrochemistry, solutions, kinetic theory of gases, chemical kinetics, quantum theory and statistical mechanics, molecular structure and spectroscopy. CH 584 Chemistry for teachers CH 584 – Instruments and Online Interactions in the Physical Sciences (3). This fully online course is designed for middle school, high school and college-level science instructors, as well as graduate students in STEM education. At class completion, students will have created a portfolio of instructional lab content that can be used in their practice. Graduate level tuition applies to this course. If you are transferring credits be sure to confirm the transfer policy of your home institution. Learn more about transferring credits. Benefits of studying online with Oregon State University All classes are developed by OSU's world-class College of Science faculty, who are known for their research, expertise and innovation. Oregon State is regionally accredited by the Northwest Commission on Colleges and Universities. OSU's online students receive the same transcripts as on-campus students. All online students pay the same tuition rate no matter where they live. Request information Microbiology is a branch of science which deals with microbes, their characters, applications, and other related concepts. It also extends to aspects of how the body deals with microbes, how to control them for health and other benefits. Microbiology has come a long way since the discovery of microbes. It has contributed significantly to human life for various daily needs. Knowledge is used in health care for the prevention of diseases, diagnosis, sterilization methods, and drug production. Further, the knowledge is also extended into food production, production of alcohol, in agriculture, leather industry, etc. Microbiology was a boon to control the mass human population eradicating epidemics like rabies, smallpox and other infectious diseases. Importance of microbiology The present society is so dependent on this science that without it there can no proper health care. Importance of microbiology in nursing practice The use of microbiology in nursing is concerned with the diagnosis. It also helps to see how the patient's health progresses during the treatment. Nurses use hot water or antiseptic as a measure to sterilize the surgical knives, needles, scissors, and other metal instruments to free them from microbes. They also use alcohol to clean the wounds as they know that alcohol destroys germs. Microbiology also gives knowledge to nurses on how to handle a patient and his samples infected with communicable diseases. Hence they use hand gloves, face masks to prevent being infected themselves. Many patients admitted to the hospital are prescribed antibiotics as part of treatment. But not all of them will be effective for the patients. Then to test effectiveness, the patient's sputum, excreta, urine or blood samples are taken. This sample is examined for the type of microbe and based on the identification, a suitable antibiotic is prescribed. The nurse can also identify the blood groups of the people through simple immune reactions. Identification of blood groups helps to infuse the correct blood group in case of emergency and avoid complications. It also helps detect diseases like Tuberculosis by simple skin test namely the Mantoux test. Also, diagnostic tests like Elisa, electrophoresis, and radioimmunoassay also use principles of microbiology for the identification of disease. Importance of microbiology in pharmacy Pharmacy and pharmaceutical companies use microbiology extensively. It is used 1) For the production of medicines like antibiotics, enzymes, vaccines, insulin, vitamins, steroids, etc. Some of the substance is exclusively obtained from microbial cultures. Most antibiotics are obtained only from microbes. Vitamin-B12 (cyanocobalamin) is obtained from a culture of bacteria. Similarly, human insulin for diabetics is purely derived from the microbial culture by rDNA technology. Initially, diabetics were given the injection of insulin obtained from animals. But due to massive demand and also compatibility problems (as it was not human-derived), there was a need for some other source of human insulin. Then rDNA technique involving E.coli bacteria was adopted to produce large amounts of human insulin which is even safe. See the article on rDNA technology for more info. Enzymes like streptokinase which help in the breakdown of clots are obtained from bacteria. Vaccines are medicines that help to prevent diseases and infections in the future. There are different types of vaccines and of them live and dead vaccines are produced from bacteria. Vitamins like especially vitamin B-12 (cyanocobalamin) are obtained from bacterial fermentation of genetically modified bacteria. 2) For sterilization of manufactured drugs. Manufactured drugs have an expiry date. This expiry date indicates until when the drug is active. The presence of microorganisms can enhance the degradation of the drug. Also, their presence can cause new infections to the patient when administered. Hence drugs are to be kept free from any form of living organisms. Sterilization exactly achieves this and it destroys all the kinds of microbes. There are many types of sterilization used industry. 3) New drug discovery: Also, many new drugs are in the search by the use of microbiology. Since many antibiotics, enzymes, etc. were derived from microbes; still, the microorganisms are searched for more new drugs. Importance of medical microbiology: In medicine, microbiology is taught to let pupils understand Study of microbial diseases; i.e., what microorganisms cause diseases like protozoa, bacterial, viral, fungal, etc. Their mechanism and pathology of illness etc. Diagnosis of disease: Even diagnosis of the disease-causing microbe is taught to give the right drug and combat infection effectively. This diagnosis includes methods like microscopic observation, ELISA tests, western-blot, etc. Treatment of disease. One cannot blindly give an antibiotic if there is an infection. The Identification of a specific microbe helps to decide which antibiotic is needed. For example presence of mycobacterium requires anti-TB antibiotics and not routine antibiotics for complete cure. This identification of the specific organism is possible by microbiological assays. Importance of microbiology in agriculture: Natural Pesticides: Few microbes like bacteria and viruses are exploited against pests attacking farm crops. Hence they are called natural pesticides. They are so specific to the pests or insects and don't cause any harm to the plant or animals and humans. Natural manures: Few microbes like algae and bacteria are grown up to enhance soil fertility by fixing nitrogen and also water retaining the capacity of the soil. Thus they also maintain soil microbiology suitable for plant growth. Crop rotation is a technique adopted by farmers to enhance soil fertility by the use of microbes in the roots of leguminous plants. Decompose the waste: Microbes decompose the synthetic pesticide residues and other toxic material in agriculture soil and thereby protecting farms from toxin accumulation. Importance of environmental microbiology: Microbes in the environment play an important role in scavenging. This means they clear any dead and decaying matter on the surface, in air and water. Without microbes, this earth would have been full of corpses, i.e., dead bodies. Microbes decay any organic substance directly and inorganic substances indirectly. Role of microorganisms in wastewater treatment: Wastewater is treated by microbes to free from all garbage. This is termed as biological oxygen demand. i.e., the amount of oxygen required by microbes to decay on quintal (100kg) of waste. Importance of soil microbiology: Soil microbiology is very important to maintain soil structure and nature. The layers of soil which have microbes support the growth of plants due to more water and fertility. Microbes in soil keep up water, the earth having microbes has higher water holding capacity. The hummus is the top layer of soil rich in microbes suitable for plant growth. This is because microbes produce natural organic fertilizers which are compatible and easy to absorb and also fertility. Microbes decay the waste remnants in the soil and make it hard. All fossil fuels are processed by microbes. Other application of microbiology In Industry microbiology is highly used in manufacturing and processing of drugs, alcohol, food, etc. See applications of "Enzyme Immobilization: Applications in diagnosis & medicine production." Note: Also mention any other uses of microbiology if you know below in comments. Thanks.

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