

## A) Health and Wellbeing

5604201 สุขภาวะทางกายและจิต 3 (3-0-6)

### Human Body and Mind Wellness

This course introduces students to holistic wellness, highlighting the multifaceted aspects of individual health and wellbeing. Through traditional lectures and practical exercises, participants will explore mental, physical, social, emotional, vocational, and spiritual wellness dimensions. Upon completion, students will be well-versed in community health services, along with addressing challenges in school health and safety.

5604204 กีฬา การออกกำลังกาย และวิถีชีวิต 3 (3-0-6)

### Sports, Exercise and Lifestyle

This course covers/surveys the dynamic interplay of factors influencing sports, exercise, and lifestyle from psychological and biological angles. Through traditional lectures and interactive workshops, students will learn about the physiological and psychological benefits of exercise, including health promotion and intervention insights. By the course's end, learners will recognize innovations and potential business ventures within the sports and exercise domain.

5604205 นวัตกรรมและแนวโน้มในอนาคตของเซลล์และอณูชีววิทยา 3 (3-0-6)

### Innovations and Future Trends in Cell and Molecular Biology Technology

This course introduces students to the depth of cell and molecular biology, laying a foundation in cell biology, molecular biology, microbiology, biochemistry, and molecular genetics. Through traditional lectures and hands-on exercises, participants will dive deep into cellular and molecular mechanisms. Upon completion, students will be proficient in the latest innovations and foresee upcoming trends in cell and molecular biology.

5604206 กายวิภาคศาสตร์และสรีรวิทยา 3 (3-0-6)

### Anatomy and Physiology

This course delves into the world of human anatomy and physiology, illuminating the detailed interactions within the body. Through traditional lectures and interactive sessions, learners will contrast structural studies, like heart tissue anatomy, with functional explorations, such as heart operational physiology. By the course's end, participants will have a comprehensive understanding of the human body, appreciating both its detailed structures and integrated functions.

5604207 หลักการพื้นฐานและการประยุกต์ใช้ทางเภสัชศาสตร์ 3 (3-0-6)

### Basic Principles and Application to Pharmacy Practice

This course introduces students to the fundamentals of drug physicochemical properties, from dosage forms to the complex world of pharmacokinetics and pharmacodynamics. Through traditional lectures and hands-on exercises, participants will delve deep into global pharmaceutical practices, encompassing drug R&D, clinical trials, and the commercialization of various drug forms. By the course's end, learners will possess both theoretical knowledge and practical acumen vital for pharmaceutical science and its real-world application.

**5604305      การค้าเชิงพาณิชย์ด้านการดูแลสุขภาพและเภสัชกรรม      3 (3-0-6)**  
**Healthcare and Pharmaceutical Commercialization**

This course dives into the intricate ecosystem of healthcare management and pharmaceuticals, with a sharp focus on the commercialization facets of the industry. Through immersive lectures and real-world case studies, students will grasp the interdependencies within healthcare organizations, the dynamics of pharmaceutical transfers, and the nuances of quality improvement. Upon completion, participants will be proficiently equipped to navigate the complexities of commercial practices within healthcare settings.

**5604306      การส่งเสริมสุขภาพและความมั่นคงด้านสุขภาพ      3 (3-0-6)**  
**Health Promotion and Health Security**

This course presents an intensive journey into public health. It emphasizes both infectious and chronic disease landscapes and covers key concepts in public health. Through traditional lectures and interactive modules, students are introduced to methodologies for health intervention planning, ranging from health economics to the latest in health technologies. Upon completion, participants will have a profound grasp of public health challenges and will be adept at strategizing for enhanced health outcomes and reduced health inequalities.

**5604307      นวัตกรรมทางสุขภาพและความเป็นอยู่ที่ดี      3 (3-0-6)**  
**Innovation in Health and Well-being**

This course presents a comprehensive exploration into the world of health innovation. Through traditional lectures and interactive modules, students are introduced to key domains, from Intellectual Property to Biomedical Ethics. By the end of this educational endeavor, learners will not only understand the drivers of innovation in health but will also be primed to contribute effectively to the realm of health and well-being.

**5604308\*      เทคโนโลยีและนวัตกรรมทางจิตวิทยา      3 (3-0-6)**  
**Psychology Technology and Innovation**

This course introduces students to the advanced concepts and theoretical foundation of how psychological principles intersect with technology and innovation. Through a blend of traditional lectures and hands-on tutorials, participants will undertake group assignments and a term project for evaluation. Upon completion, students are poised to appreciate the behavioral and ethical nuances of emerging technological tools in the realm of psychology.

**5604309      การรักษารูปแบบใหม่สำหรับศตวรรษที่ 21      3 (3-0-6)**  
**Novel Therapies for the 21st Century**

This course explores the frontier developments and key empirical findings in the domain of advanced therapeutic strategies, centering on the biological foundations. The course amalgamates group discussions and prototyping exercises, emphasizing individual assignments and a technical paper as evaluation components. Students will emerge with a deep understanding of the bridge between biological research and therapeutic innovation in the 21st century.

5604310\* เทคโนโลยีอาหาร: โลฟัสไตส์/จุลินทรีย์/การออกกำลังกาย 3 (3-0-6)  
Food Technology: Lifestyle/Microbiota/Exercise

This course investigates the elementary knowledge and applications of food technology, focusing on its impact on lifestyle, microbiota, and exercise. Delivered via a combination of traditional lectures and hands-on tutorials, students are assessed through group assignments and a video presentation. Graduates of this course will gain a holistic understanding of how food technology intersects with health, wellbeing, and modern lifestyle dynamics.

5604311 ความท้าทายปัจจุบันด้านสุขภาพและวิธีการแก้ปัญหาใหม่ 3 (3-0-6)  
Current Health Challenges and Innovative Solutions

This course delves deep into the current pressing challenges in health, emphasizing the application of novel solutions for these contemporary issues. Through group discussions and hands-on tutorials, students will work on a term project and produce a technical paper for evaluation. By the course's conclusion, students are equipped to anticipate, analyze, and propose innovative solutions to global health challenges, backed by empirical evidence and informed predictions.