Undergraduate Program in Department of Bioinformatics and Medical Engineering (BS), 2023

Accreditation
The department was accredited by The Institute of Engineering Education Taiwan (IEET) accreditation in 2013. Again, in 2016 fall, the department was accredited for the second time. IEET accreditation is a non-government, peer-review process with a student-outcomes based orientation.

Objective
Our mission is to develop frontier technologies facilitating research in biomedicine and improving public health through studies using: artificial intelligence algorithms, computational methods, 3D printing, and biomaterials.

For the undergraduate program, the course curriculum is designed to educate students to have the ability to manage and analyze biological as well as medical data. For the MS program, the course curriculum is designed to educate students to possess the ability to utilize advanced knowledge to analyze biological and medical information. For the Ph.D. program, the course curriculum is designed to educate students to acquire the ability of applying advanced knowledge, integrating diverse information, and conducting original biomedical research independently.

History
Founded in 2002, our department is the first institute in Taiwan that offers programs in biomedical informatics leading to BS, MS, and Ph.D. degrees, and prepares students for careers in academia, government and private sectors in bio-pharmaceutical technology, computer science, and healthcare.

Future development
Due to the recent advancement of personalizing mobile devices, 3D printing, biomedical informatics, artificial intelligence and data science, starting from August 2015 the Department was renamed as the Department of Bioinformatics and Medical Engineering to reflect the global technological changes and the department focus. Developing advanced biomedical materials is one of the major core areas of training and research in the department. In particular, the course curriculum is designed to educate students to analyze biomedical images, biomedical signals, maintain and develop healthcare electronic equipment. Graduates go on to develop their careers in the academia, government and private sectors in the biotech, information technology, 3D printing and healthcare industries.

Development focus
The global financial tsunami in 2008 and the economical regression demand the government to think of the urgency to adjust national industrial structure. In March 2009, Executive Yuan planned the “six emerging industries,” which include “biotechnology,” “green energy,” “tourism,” “medical care,” “exquisite agriculture,” and “culture creative,” hoping the future industrial development in Taiwan can go with these directions. Later, in 2010, Executive Yuan promised to promote four emerging intelligent industries including “cloud computing,” “intelligent electronic cars,” “intelligent green buildings” and “invention patent industrialize”. The purpose is to arrange long-term industrial development to transform Taiwan’s industries from “Made in Taiwan” to “Create in Taiwan” with the brain and innovation and increase international competitiveness and added value. The development of the Department is in line with the biotechnology medicine industry and medical care, as well as the cloud computing industry in four intelligent industries. We train talents to meet with the demands of national important industry policies so that the students are provided with the proficiency for employment, and shorten the distance between practical and academic.

Close collaboration with medical university and affiliate hospital
In joining with the China Medical University (CMU) and the China Medical University Hospital (CMUH), the department has set up several research programs; including precision medicine, drug repositioning, and 3D printing. Our department has shown strength in information technology; whereas, CMU and CMUH are leading research centers in biomedical science.

112 學年生物資訊與醫學工程學系大學部全英語課程規劃

Course Curriculum for Undergraduate Program in Department of Bioinformatics and Medical Engineering 2023(English-Taught Program)

生物資訊與醫學工程學系學士學位學程

Undergraduate Program in Department of Bioinformatics and Medical Engineering

畢業總學分：128 學分　　Approved by the University Curriculum Committee on 26/04/2023

Approved by the University Curriculum Committee on　　Credits for Graduation: 128

類別 Category				科目名稱 Course Title	CEFR 等級	修課年級 Year of the Program	修課學期 Semester	學分數 Credits	每週上課時數 Hours per week		備註 Remarks
									講授 Lecture	練習 Practice	
(30) University Required Credits	(12) Program Required Credits	必修語文課程18學分	中文類10學分	進階華語文會話與聽力(一) High-Intermediate Chinese Conversation and Listening I	B1	1st	1st	2	2	1	
				進階華語文會話與聽力(二) High-Intermediate Chinese Conversation and Listening II	B1	1st	2nd	2	2	1	
				中級中文文法 Intermediate Chinese Grammar	B1	1st	2nd	2	2	0	
				高階華語文會話與聽力(一) Advanced Chinese Conversation and Listening I	B2	2nd	1st	2	2	1	
				時事華語 Current Affairs in Chinese	B2	2nd	1st	2	2	0	
			英文類8學分	共通英語文(一) English for General Purposes (1)		1st	1st	3	3	0	分級上課
				共通英語文(二) English for General Purposes (2)		1st	2nd	3	3	0	分級上課
				共通專業英語文 English for General Specific Purposes		2nd	1st	2	2	0	依系院上/下學期開課
		核心通識課程6學分	歷史與文化	臺灣/中國文化導讀(二) Introduction of Taiwanese / Chinese Culture II	B2	1st	1st	2	2	0	
			健康保健	健康與生活 Health and Life		1st	2nd	2	2	0	
			法律與生活	娛樂、智慧財產權與法律 Entertainment and Intellectual Property Law		1st	1st or 2nd	2	2	0	三選一 One Choice from Three
				法律與生活 Law & Life							
				愛情、性別與法律 Love, Gender and Law							
	(3) Program Elective Credit	通識選修6學分	資訊科技類	資訊科技與華語表達訓練 Practice of Chinese Oral Expression through Information Technology	B1	1st	2nd	2	2	0	
			語文類	進階華語文閱讀與寫作 High-Intermediate Chinese Reading and Writing	B1	1st	2nd	2	2	0	
				學術華語文	C1	2nd	2nd	2	2	0	

				Chinese for Academic Purposes						
				*專業華語文 Chinese for Specific Purposes	B2	2nd	1st	2	2	0	專業華語目前提供醫學華語與商業華語，視選課需要而定。
				高階華語文會話與聽力(二) Advanced Chinese Conversation and Listening Ⅱ	B2	2nd	1st	2	2	1	
	服務與學習(一)(二)－實作課 Service and Learning					1st	1st、2nd	0	1.5	0	Time of class: (1) New student orientation, (2) arranged and announced by student services
	服務與學習(一)(二)-講授課 Service and Learning(1)(2)-Lecture					1st	1st、2nd	0	2	0	
	台華文化涵養護照（**國際生畢業門檻、不計學分**） Certificate of Taiwan-Chinese Cultural Understanding (Non-Credit Graduation Threshold)					1st~4th	1st or 2nd	0	2	0	本畢業門檻不計學分，大學部學生須於4年期間，參與至少8次文化活動，全英文授課國際生，參與至少4次文化活動，並完成學習心得報告。
	通識涵養教育（**不納入畢業學分**） General Literacy Series (non-credit)					1st~4th	1st or 2nd	0	2		大學日間部須於在學期間至少參與4次(符合健康力1次、關懷力1次、創新力1次及卓越力1次),並完成學習成效評估，成績以P/F(通過/不通過)計分。
以院為教學核心課程 12 學分 Core courses of the College of Information and Electrical Engineering (12 credits)				基礎程式設計(一)~(三) Fundamental Computer Programming (1)~(3)		1st	1st	3	3	1	
				人工智慧與雲端應用 Artificial Intelligence and Cloud Applications		3nd	1st	3	3	2	
				進階程式設計 Advanced Computer Programming		1st	2st	3	3	0	
				畢業專題（一） Special Projects (I)		3rd	2st	1	1	0	
				畢業專題（二） Special Projects (II)		4th	1st	1	1	1	
				資訊研討 Information Technology Seminar		4th	2nd	1	1	1	
系核心課程 36 學分 Core courses of the Department of Bioinformatics				普通化學 General Chemistry		1st	1st	3	3	0	
				生醫資訊與醫工概論 Introduction to Biomedical Information an Engineering		1st	2nd	3	3	1	
				普通物理 General Physics		1st	2nd	3	3	0	

and Medical Engineering (36 credits)	微積分 (一) Calculus I	1st	1st	3	3	0	
	微積分 (二) Calculus II	1st	2nd	3	3	0	
	生物醫學工程倫理 Biomedical Engineering Ethics	1st	2nd	3	3	0	
	基礎生物化學 Basic Biochemistry	2nd	1st	3	3	0	
	視窗程式設計 Windows Programming	2nd	1st	3	3	0	
	生醫訊號處理 Biomedical Signal Processing	2nd	2nd	3	3	0	
	生物技術導論 Introduction to Biotechnology	2nd	2nd	3	3	0	
	生物統計學 Biostatistics	2nd	2nd	3	3	0	
	解剖學 Anatomy	3rd	1st	3	3	0	
	生理學 Physiology	3rd	1st	3	3	0	
智慧醫材學程 27 學分 Smart medical devices Program (27 credits)	生物力學 Basic Biomechanics	2nd	1st	3	3	0	
	工程數學 Engineering Mathematics	2nd	2nd	3	3	0	
	電路學 Electric Circuit	2nd	2nd	2	2	0	
	電路學實驗 Electric Circuit Laboratory	2rd	2nd	1	1	0	
	生醫材料導論 Introduction to Biomedical Materials	2rd	2nd	3	3	0	
	電子學 Electronics	3rd	1st	3	3	0	
	高分子材料學 Polymeric materials	3rd	1st	2	2	0	
	醫學工程實驗 Medical Engineering Laboratory	2th	1nd	1	1	0	
	材料機械性質 Mechanical Properties of Materials	2th	1nd	2	2	0	
	醫學測量與儀表 Medical Measurement and Instrumentation	3th	2nd	2	2	0	
	生醫創新與商業化 Biomedical Innovation and Commercializatio	4th	1st	2	2	0	
	組織工程 Tissue Engineering	4th	2nd	3	3	0	
精準醫療學程 27 學分 Precision medicine Program (27 credits)	離散數學 Discrete Mathematics	2rd	1st	3	3	0	
	資料結構與演算法 Data Structures and Algorithms	2rd	1st	3	3	0	
	網頁系統開發 Web Base System Programming	2nd	2nd	3	3	2	
	資料庫應用	2rd	2nd	3	3	0	

	Database Application						
	基礎分子遺傳學 Basic Molecular Gentics	3th	1st	3	3	0	
	生物資訊軟體應用 Application of Bioinformatics Software	3th	1st	3	3	0	
	生醫資料擷取與探勘 Biomedical Data Acquisition and Mining	3th	2nd	3	3	0	
	體學導論(基因體、蛋白質體) Introduction to Omics	3th	2nd	3	3	0	
	系統生物學 Systems Biology	4th	1st	3	3	0	
系自由選修課程 8 學分 Electives (8 credits)	精準醫療 Precision Medicine	3th-4th	1st、2nd	3	3	0	
	醫用金屬材料 Medical Metal Materials	3th-4th	1st、2nd	3	3	0	
	3D 列印建模 3D modeling for 3D printing	3th-4th	1st、2nd	3	3	0	
	醫療器材專利與法規 Medical Instruments Patent and Regulations	3th-4th	1st、2nd	3	3	0	

註:

一、 學生含通識課程應修畢 128 學分(含)以上始能畢業，其中含通識課程(必修語文課程、核心通識及通識選修)30 學分，院基礎學程 12 學分、系核心學程 36 學分，餘不足 128 學分之學分數，需另修習「系專業選修學程」、「系自由選修課程」課程學分補足其不足學分數，始得畢業。

Students must complete 128 credits including the standard curriculum in order to graduate. The standard curriculum (language requirements, core curriculum, and standard curriculum electives) includes 30 credits, the department standard curriculum includes 12credits, the department core curriculum includes 36credits and completion of the “school group professional curriculum” of 27 credits is required. Students lacking 128 credits are required to take “department professional electives” or “major electives curriculum” to make up for credits required for graduation.

二、 通識教育開授科目，請參考本校通識教育中心之課程計畫與規定。

For a list of standard curriculum courses, please refer to the school’s standard curriculum education center’s curriculum planning and regulations.

三、 有關國際生修習本校以全英語授課之博雅通識課程英語文能力規定，依語文教學研究發展中心規劃辦法辦理。

International students enrolled in the university’s standard liberal arts curriculum will be processed via the rules set forth from The Center for the Development of Language Teaching and Research.

四、 有關僑生、港澳生、陸生修習本校以全英語授課之博雅通識課程規定，比照國際生通識課程辦理。

Students from Hong Kong, Macau, China, and overseas Chinese students enrolled in the university’s standard liberal arts curriculum will be processed as international student standard curriculums.

系所主管簽章:　　學院院長簽章:　　國際學院院長簽章:

Course Description

Course Title	Course description
General Chemistry	General chemistry encompasses the basic knowledge of chemistry. The teaching objectives are to introduce students to the basic principles of chemistry and to introduce students to the basic calculations and reasoning of the application of chemistry principles.
Introduction to Biomedical Information and Engineering	Biomedical engineering is a multidisciplinary field at the interface between engineering and health science. Biomedical engineering applies engineering and science principles and methodologies to the analysis of biological and physiological problems and to the delivery of health care. Biomedical engineering encompasses a range of fields of specialization including bioinstrumentation, bioimaging, biomechanics, biomaterials, and biomolecular engineering. This course aims to provide an introduction to biomedical engineering principles using foundational resources from molecular and cellular biology and physiology, and relating them to various sub- specialties of biomedical engineering.
Calculus I	This course provides a first introduction into the theory of differentiation and integration. The course mainly serves as a bridge between highschool mathematics and university mathematics. Its main goal is to make students acquainted with rigorous mathematical thinking. This is done via learning basic concepts such as limits, continuity, differentiability, etc. on the one hand and fundamental theorems such as the intermediate value theorem, the extreme value theorem, the mean value theorem, etc. on the other hand. Moreover, the course is intended to train students problem solving skills as well as writing and oral skills. Finally, the course equips students with the basic tools needed in the more applied sciences and is the entrance door to more advanced courses on mathematics.
Calculus II	This course provides a first introduction into the theory of differentiation and integration. The course mainly serves as a bridge between highschool mathematics and university mathematics. Its main goal is to make students acquainted with rigorous mathematical thinking. This is done via learning basic concepts such as limits, continuity, differentiability, etc. on the one hand and fundamental theorems such as the intermediate value theorem, the extreme value theorem, the mean value theorem, etc. on the other hand. Moreover, the course is intended to train students problem solving skills as well as writing and oral skills. Finally, the course equips students with the basic tools needed in the more applied sciences and is the entrance door to more advanced courses on mathematics.

Basic Biochemistry	Biochemical knowledge is the connection between chemistry and biomedical phenomena. That is the important basis in the principles and application for biomedical science. The teaching objective is to equip students with the key concepts of modern biochemistry.
Anatomy	Anatomy is the study of internal and external structures of the body and physical relationship among body parts. This course introduce anatomical structures and the physiological processes that make human life possible.
Windows Programming	This course is designed to teach the most popular and modern programming language used for writing windows programs: C#. In the course, the concepts of object-oriented design, file access and exception processing, and various components used in C# programming will be introduced in detail. Students will have a deep understanding of Visual C# programming language.
Biomedical Signal Processing	This course is an introduction to the application of digital signal processing to biomedical signals and systems. The teaching topics include an overview of biomedical signals; Fourier/Z-transforms, and filter design. These knowledge are applied to the time-domain analysis and frequency-domain characterization of signals and systems.
Introduction to Biotechnology	This course will provide introduction to the current trends in Biotechnology researches and their application. At the end of this course students will gain basic level knowledge and skills in Biotechnology and applying these to their studies.
Biostatistics	Let students understand the significance of data based on statistical knowledge. Students can learn how to use statistical software (SPSS) and choose suitable and reasonable statistical method to evaluate data.
Biomedical Engineering Ethics	This course covers information literacy and ethics, social and personal values and ethics, and discusses practical issues such as intellectual property rights, cybercrime and privacy issues. Explore how to apply the courses to the fields of biomedical information and engineering. The content of the course emphasizes the application of the method and the discussion of the cases.
Physiology	Physiology course is a 3 credit hour course, which is designed to learn the knowledge about the functions of body from the level of the cell to the level of the organism. The content of this course includes the chapters related to the function of the body, cell respiration and metabolism, the nervous system, sensory physiology, and endocrine glands.

General Physics	General Physics is designed to teach concepts and applications of the following topics: kinematics, Newton's Laws of motion, gravitation, work and kinetic energy, waves, sound, momentum and heat. There are three hours of lectures each week.
Engineering Mathematics	This course introduces students of engineering to those areas of mathematics which are important in connection with practical engineering problems. Students shall be able to solve practical problems using the mathematical skills. To attract students' interest by providing practical examples.
Electric Circuit	Circuit learn basic courses allow students to complete a circuit can utilize circuit learn science, the science used in electronic circuits circuit analysis, linear systems, control and so on. Learning circuit analysis skills Kirchhoff's law (KCL, KVL), circuit elements, series and parallel circuits, a first-order circuit, second circuit. By practical application instructions for circuit analysis is important in practical applications.
Electric Circuit Laboratory	Course contents include Kirchhoff's law (KCL, KVL), circuit elements, series and parallel circuits, one order circuit, second circuit to achieve teaching objectives.
Introduction to Biomedical Materials	Biomaterials can be used within physiological environments over long or short periods of time. The materials are used to assist or replace organism tissue and organ functions, and they are directly in contact with organism cells, blood, tissues, and proteins. It is essential to synthesize professional knowledge in biology, medicine, materials science, and other sciences in order to master the design theory and application of biomaterials. This course is composed of two units. The first unit introduces material structures and properties. Mechanical properties can be understood through by the discussion of material structures. The second unit divides biomaterials into metal, ceramic, polymers, and the replacements of various types of tissues, to familiarize students with the development and application.
Electronics	This course introduces the basic physics and operation principles of semiconductor devices. Students could learn basic knowledge on semiconductor devices that includes DC characteristic, small signal characteristics and frequency characteristics. Students could also learn some well know useful circuits, and have ability to analyze or design the simple application circuits. Learning microelectronic can be fun. As we learn how each device operates, how devices comprise circuits that perform interesting and useful functions and how circuits form sophisticated systems, we begin to see the beauty of microelectronics and appreciate the reasons for its explosive growth. Over the past five decades, microelectronics has revolutionized our lives. While beyond the realm of possibility a few decades ago, cellphones, digital cameras, laptop computers, and many other electronic products have now become an integral part of our daily affairs.

Medical Measurement and Instrumentation	This course provides biomedical engineers with the premiere reference on medical instrumentation as well as a comprehensive overview of the basic concepts. Each progress includes new problems and updated reference material that cover the latest medical technologies. The course also teaches with new material in medical imaging, providing biomedical engineers with the most current techniques in the field. This course allows students to study physical, chemical and mathematical concepts and practical applications of medical equipment. With the practical application of instructions to understand the importance of medical measurement and instrumentation in practice.
Polymeric materials	A polymer is a useful chemical made of many repeating units. This course introduces polymeric materials in terms of the classification, basic properties, structure, evaluation methods, and the medical related applications. Polymeric biomaterials and biomedical polymers are also described.
Biomedical Innovation and Commercialization	Developing a new medical device for commercialization is a complex process. This course is a practical, step-by-step approach on how to move a novel concept through development to realize a commercially successful biomedical product. Real-world experience cases and knowledgeable contributors provide lessons that cover the practices of diverse organizations and multiple products. This important reference will help improve success and avoid innovation failure for translational researchers, entrepreneurs, medical school educators, biomedical engineering students and faculty, and aspiring physicians.
Discrete Mathematics	This course introduces the basic and foundation in discrete mathematics. The range of topics to be covered include: logic, set theory, algorithms, graph theory, trees, combinatorics and algebra.
Data Structures & Algorithms	This specialization is a mix of theory and practice: you will learn algorithmic techniques for solving various computational problems and will implement algorithmic coding problems in a programming language of your choice.
Database Application	A database application is a computer program whose primary purpose is entering and retrieving information from a computerized database. You will get following skills: Design, create, modify, and maintain relational databases. Creating and modifying tables, relationships, queries, and forms. Add and modify data to the tables. Database backup and recovery. Search, sort and query database. Database maintenance.
Application of Bioinformatics Software	This course provides an elementary introduction to the use of UNIX commands to manipulate UNIX-based computer system. The following topics will be covered: history of UNIX systems, basic commands, vi editor, sorting, pipeline, process control commands, wildcard, regular expression.
Biomedical Data Acquisition and Mining	This course is an introductory course on data mining. To study the concepts, principles, and skills for biomedical data analysis. The teaching topics include pattern discovery, cluster analysis, and classifier modeling. These topics will be practice by application software and programming.

Systems Biology	This course will cover the following topics, including network biology, graph theory, network perturbations, network motifs structures, and gene set enrichment analysis. At the end of the course, students will learn how to analyze biological systems from a system level perspective.
Medical information management	Medical information management provides students with a comprehensive and engaging look at the responsibilities and opportunities available in healthcare management today. This course explores hospital information management roles in inpatient, outpatient, and specialty care settings, including long-term and rehabilitative care; offers up-to-date information on electronic health records; and examines the impact of EHRs on the healthcare environment.
3D modeling for 3D printing	This course will provide an introduction to the technology and medical applications of 3D printing. Through lectures and workshops, students can self-made the various products and understand the following topics, including 3D printing introduction, 3D printing technologies, 3D modeling and printing software, 3D printing in medicine, and the future of 3D printing.
Medical Devices Patent and Regulations	This course will start from patent claim interpretation, getting patent claims well known, then following with introduction on the orientation of patent strategies, and providing theory and practice on medical device patent strategies. Developing a new medical device for commercialization is a complex process. The FDA has guidelines that provide a framework for designing and manufacturing medical devices. The course will cover design control under the FDA Quality System Regulation (21CFR820.30) and international Standard ISO 13485 for Quality Management Systems, in addition to the practical application in the design and development of electronic hardware, software, mechanical elements and labels. The course will also cover related aspects of associated Standards and Regulations such as Risk Management (ISO 14971), Usability (IEC 62366-1) and Software lifecycle (IEC 62304).
Introduction to Omics	Omics is a new area of study in molecular biology that examines the features of a large family of biological molecules, such as DNA, mRNA, proteins, metabolites, lipids, and carbohydrates (saccharides). This course is designed to give students a general understanding of the genomes, transcriptomes, proteomes and their integration, i.e. omics.
Big Data programming (R + Python)	Interested in increasing your knowledge of the Big Data landscape? This course is for those new to data science and interested in understanding why the Big Data Era has come to be. It is for those who want to become conversant with the terminology and the core concepts behind big data problems, applications, and systems. It is for those who want to start thinking about how Big Data might be useful in their business or career. It provides an introduction to two of the most common programs, R and Python, that have made big data analysis easier and more accessible.

Basic Programming	Let students can understand and practice programming Java in the class; therefore, they can realize the programming steps: writing program, saving a program, compiling a program, executing a program and debug skills.
Advanced Computer Programming	Teach students Java programming. The contents of the class in this semester include function, array, pointer, structure, file handle, and malloc.
APP programming	Teach students design APP based on APP Inventor 2. The contents of this class include set up APP inventor 2 environments, using the interface of APP inventor 2, understanding the function of each element. Besides, the student can learn how to design the APP interface based on these elements. Further, students can write programs to carry out the function of the APP.
Mechanical Properties of Materials	In this course, the major goal is to train the students to understand the mechanical properties and deformation mechanisms of materials. Meanwhile, the standard of mechanical tests, dislocation theory, and the introduction about the deformation behavior such as elastic deformation, plastic deformation and failure will be also included.
Medical Metal Materials	In this course, the major goal is to train the students how to fabricate and apply the most suitable metal materials in different scenarios by the understanding of the physical and chemical properties of medical metal materials and its lattice structure, defects, thermodynamics, phase diagrams, and etc.
Precision Medicine	The main goal of this course is to understand the general trend of precision medicine. The course covers the introduction of precision oncology and learns how to obtain biomedical big data and its analytical methods, and apply it to precision medicine. Finally, the project is implemented to reflect the knowledge and skills learned.

Faculty Members

Instructor's title	Instructor's name	Contact Information
President / Professor 校長 / 教授	Dr. Jeffrey J.F Tsai 蔡進發	Email: president@asia.edu.tw
Professor 教授	Dr. Phillip C-Y. Sheu 許承瑜	Email: psheu@uci.edu
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