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Review Article

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Features of the Educational Program in Foreign Universities: the Example of the Medical College of the University of Central Florida

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The University of Central Florida (UCF) is a metropolitan research university built to make a better future for our students and society. We solve tomorrow's greatest challenges through a commitment to academic, inclusive and operational excellence. Leveraging innovative learning, discovery and partnerships, we foster social mobility while developing the skilled talent needed to advance industry for our region, state and beyond.



Founded in 1963 to provide talent for Central Florida and the growing U.S. space program, UCF has impacted

the state, the nation — and outer space — ever since. With 13 colleges and more than 240-degree programs, follow your passion at one of our campus locations designed to help you succeed. From the main campus in east Orlando to UCF Downtown and Rosen College of Hospitality Management to the Academic Health Sciences Campus, you'll have the opportunity to learn in the heart of your industry. UCF also has multiple regional locations and fully online programs — including online bachelor's degrees, online graduate degrees, online certificates and more — to ensure that you can achieve your dreams whenever and wherever you want.

UCF is an academic, partnership and research leader in numerous fields, such as optics and lasers, modeling and simulation, engineering and computer science, business, public administration, education, hospitality management, healthcare and video game design. In fact, in addition to being recognized as one of the best national universities in 2020 by Washington Monthly, UCF consistently appears in U.S. News and World Report's best college rankings. Explore several of our academic programs that regularly rank among the top in the nation — and the world:

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1 graduate game design program in the world for 2022, according to The Princeton Review and PC Gamer.

3 emergency and crisis management graduate program in the nation for 2023, according to U.S. News & World Report.

4 hospitality school in the world for 2022, according to Shanghai Rankings.

13 nonprofit management graduate program in the nation for 2022, according to U.S. News & World Report.

7 online undergraduate programs in the nation for 2022, according to U.S. News & World Report.

Ranked among the top 30 cybersecurity programs in the nation for 2022, according to <u>cyberdegreesedu.org</u>

Students from across the globe come to UCF to experience academic achievement — getting hands-on experience inside and outside of the classroom before graduation. Leave here prepared for a rewarding lifelong career, and make a difference in the community and beyond. At UCF, excellence is in everything we do.



Home to the FBC Mortgage Stadium and the Addition Financial Arena, UCF hosts a variety of concerts and shows, plus NCAA sports and cultural events. You'll have access to an array of student services, more than 650 student clubs and organizations and dedicated academic resources to help you succeed in school. Plus, with hundreds of events and activities outside the classroom, there are seemingly endless ways to make friends, make memories and make the most of your college experience. From Spirit Splash to UCF Celebrates the Arts, these time-honoured and fan-favourite traditions are just a few of our top Knight life picks.

UCF offers 104 bachelor's, 96 master's, 34 doctoral and three specialist degree programs, and it leads all universities in Florida by conferring more than 18,000 degrees a year. In Fall 2022, the freshman class had an average SAT two-score of 1334, The Burnett Honors College enrolled 499 new students, and the number of incoming National Merit Scholars ranked UCF among the top 40 colleges and universities.

Health care systems worldwide require well-educated professionals to develop innovative approaches to promote the health and well-being of populations with diverse needs. Through our nationally recognized programs, you'll develop in-demand skills through practical experiences and research led by respected faculty. And with your degree, you'll play an important role with a rewarding career in prevention, diagnosis or therapy at hospitals, community-based and specialized-care facilities, schools, and nonprofit and social service agencies.

The Department of Health Sciences in the College of Health Professions and Sciences at the University of Central Florida offers a Bachelor of Science degree in Health Sciences and a minor in Health Sciences. The Bachelor of Science in Health Sciences is designed for students with an interest in human health who plan to pursue careers in medicine, other health professions, and health promotion. The curriculum is divided into two career focused tracks: Pre-clinical and Health Promotion. These tracks provide students with a solid educational background encompassing required core science courses and application-oriented courses that serve as strong foundational preparation for advanced degree programs in medicine, pharmacy, physical therapy, physician assistant, occupational therapy, public health and others. Our faculty and students are actively engaged in experiential learning and research projects that contribute to improving the health of individuals and communities.



The Department of Health Sciences aspires to be a leader in inclusive education, research, and service that promotes the health and well-being of local, national, and global communities.

The mission of the Department of Health Sciences is to provide students with a high-quality inclusive education and opportunities to engage in research, clinical experience, and community service with the goal of im-

proving career readiness and competitiveness for advanced degree programs and/or employment in healthrelated careers.

The Department of Health Sciences offers a Bachelor of Science in Health Sciences. Our science-based, application-oriented curriculum is designed for students with an interest in human health who plan to pursue careers in medicine, other health professions, clinical/behavioral research, health promotion and public health.

The major includes two career-focused tracks: Pre-Clinical and Health Promotion.

Pre-Clinical: This track is designed for students pursuing careers as a physician, physician assistant, dentist, pharmacist and other healthcare careers. A 3.0 minimum overall GPA is required for admission and graduation.

Health Promotion: This track is designed for students pursuing careers as a physical therapist, occupational therapist, clinical/behavioral health researcher, public health specialist and other health-related fields.

The core curriculum provides a foundation in chemistry, biology, physics, and social sciences. Upper-level core requirements focus on areas such as research methods, pharmacology, epidemiology, pharmacology, nutrition and pathophysiology. Additional elective courses allow students the flexibility to fulfill requirements for graduate and professional programs they may wish to pursue.

The Health Sciences Academic Advising Office provides advising for current sophomore, junior and senior students in the major and prospective students. (Academic advisement for freshman students is provided by CHPS Student Academic Services.)

Prospective students are required to schedule an advising appointment. This is required to ensure that Health Sciences academic advisors have time to review important program information with you.

During this time of heightened public health concerns. Health Sciences Academic Advisors will be assisting students via email at hsinfo@ucf.edu, phone appointments and Zoom sessions. All normal advising services will be offered with the option that works best for

Partnering with healthcare facilities, community organizations and research entities. The Health Sciences Internship course (HSC4943) provides students with an opportunity to experience the work environment in health-related careers.

Internship Prerequisites:

Pathophysiology I (HSC 4555) and/or Pathophysiology II (HSC 4558).

Applied Health Research Methodology (HSC 4730) – required for research-focused internships only.

Junior or Senior Standing.

UCF Overall GPA 3.0 or higher.



What is an Internship?

An internship is a hands-on experience in which a student can explore career options, draw conclusions between their academic knowledge and practice, and network with professionals in their field of interest. These experiences, which occur in healthcare facilities, community organizations and research entities, are developed in partnership with the UCF Department of Health Sciences Internship Program. While participating in an internship, students engage in direct, learner-centered activities outside the traditional academic classroom. Internship experiences enrich the learning process and create opportunities for students to gain valuable insights into their field of choice.

About Health Sciences Internships: Three types of internships are available: Shadowing in a health care setting Community service Research

Students must submit an application to be considered for an internship spot. Eligible students are matched with internship opportunities based on their professional interests, skills and course schedule.

Internships for Course Credit

Interns must complete at least 80 hours at the assigned internship site to earn 3 credit hours. In addition to the internship, students complete course assignments to facilitate interactive learning. An online course, HSC 4943 – Health Sciences Internship, is part of this learner-centered experience.

The Bachelor of Science degree in Health Sciences is designed for students with an interest in human health who plan to pursue health-focused careers. The Pre-Clinical track provides students with a solid educational background in basic and health-related sciences, while providing the foundation courses required for admission to graduate level clinical programs including but not limited to medicine, pharmacy, dentistry, optometry, physician assistant, and other health-related professions.

Degree Requirements

Students who change programs and select this major must adopt the most current catalog.

Students must have a minimum overall GPA of 3.0 for acceptance into the Pre- Clinical track.

Students selecting the Pre-Clinical track are classified as "pending" until the program verifies that they meet the GPA requirements for this track. Students who meet the requirements are changed to the Pre-Clinical track.

Courses listed below under the GEP and CPP categories usually are completed during the first 60 credit hours and may be taken at an institution within the Florida College System.

A minimum grade of "C" (2.0) in each program prerequisite course, in each core requirement course, and in each restricted elective is required. Students should note that graduate programs may require a higher level of performance for admission.

No transfer course will be accepted with a grade lower than a "C" (2.0).

Students must achieve a minimum 3.0 overall GPA for graduation.

Students who do not meet the minimum overall 3.0 GPA graduation requirement will be automatically moved to the Health Sciences – Health Promotion track during their graduation term and will earn the Health Sciences – Health Promotion track B.S. if they have met all other program requirements.

Students who do not meet the overall minimum 3.0 GPA graduation requirement and wish to delay graduation instead of being moved to the Health Sciences -

Health Promotion track, must formally petition the department no more than 7 days after grades are posted for the term. Final approval to delay graduation and remain in the Pre-Clinical track is at the discretion of the department.

General Education (GEP)

Complete all of the following

Complete all of the following

Complete all courses from the following:

GEP 1 & 2- Communication Foundation

ENC1101 - Composition I (3)

ENC1102 - Composition II (3)

Complete at least 1 courses from the following:

GEP 3- Communication Foundation

COM1000 - Introduction to Communication (3)

SPC1603C - Fundamentals of Technical Presentations

SPC1608 - Fundamentals of Oral Communication (3) Complete all of the following

Complete at least 1 courses from the following:

GEP 4- Historical & Cultural Foundation

AMH2010 - U.S. History: 1492-1877 (3)

EUH2000 - Western Civilization I (3)

EUH2001 - Western Civilization II (3)

HUM2020 - Encountering the Humanities (3)

HUM2210 - Studies in Culture: Ancient to 17th Century (3)

HUM2230 - Studies in Culture: 17th Century to Present (3)

WOH2012 - World Civilization I (3)

WOH2022 - World Civilization II (3)

Complete all of the following

Complete at least 1 courses from the following:

GEP 5- Historical & Cultural Foundation

ANT2410 - Cultural Anthropology: Global Perspectives, Local Contexts (3)

ARH2050 - History of Western Art I (3)

ARH2051 - History of Western Art II (3)

FIL1000 - Cinema Survey (3)

FIL2030 - History of Motion Pictures (3)

FIL3036 - Film History I (3)

FIL3037 - Film History II (3)

LIT2110 - World Literature I (3)

LIT2120 - World Literature II (3)

MUH2017 - Survey of Rock Music (3)

MUH2019 - American Popular Music, 1840s-present

MUL2016 - Evolution of Jazz (3)

MUL2720 - Music of the World (3)

PHI2010 - Introduction to Philosophy (3)

REL2300 - World Religions (3)

THE2000 - Theatre Survey (3) MUL2010 - Enjoyment of Music (3) MUL 2010 - Enjoyment of Music; PHI 2010 - Introduction to Philosophy OR THE 2000 - Theatre Survey -Preferred GEP 6- Historical & Cultural Foundation - choose a course from GEP 4 or GEP 5, GEP 4 preferred. Complete at least 1 courses from the following: GEP 4- Historical & Cultural Foundation AMH2010 - U.S. History: 1492-1877 (3) EUH2000 - Western Civilization I (3) EUH2001 - Western Civilization II (3) HUM2020 - Encountering the Humanities (3) HUM2210 - Studies in Culture: Ancient to 17th Century (3) HUM2230 - Studies in Culture: 17th Century to Present (3) WOH2012 - World Civilization I (3) WOH2022 - World Civilization II (3) GEP 5- Historical & Cultural Foundation ANT2410 - Cultural Anthropology: Global Perspectives, Local Contexts (3) ARH2050 - History of Western Art I (3) ARH2051 - History of Western Art II (3) FIL1000 - Cinema Survey (3) FIL2030 - History of Motion Pictures (3) FIL3036 - Film History I (3) FIL3037 - Film History II (3) LIT2110 - World Literature I (3) LIT2120 - World Literature II (3) MUH2017 - Survey of Rock Music (3) MUH2019 - American Popular Music, 1840s-present (3) MUL2016 - Evolution of Jazz (3) MUL2720 - Music of the World (3) PHI2010 - Introduction to Philosophy (3) REL2300 - World Religions (3) THE2000 - Theatre Survey (3) MUL2010 - Enjoyment of Music (3) Complete all of the following GEP 7- Mathematical Foundation Complete all of the following Complete at least 1 of the following: MAC1114C - College Trigonometry (3) MAC2233 - Concepts of Calculus (3) MAC2253 - Applied Calculus (3) MAC2311C - Calculus with Analytic Geometry I (4) MAC 1114C preferred GEP 8- Mathematical Foundation Complete the following: STA2023 - Statistical Methods I (3)

GEP 9- Social Foundation Complete the following: PSY2012 - General Psychology (3) Complete all of the following Complete at least 1 courses from the following: GEP 10- Social Foundation AMH2020 - U.S. History: 1877-Present (3) ECO2013 - Principles of Macroeconomics (3) ECO2023 - Principles of Microeconomics (3) POS2041 - American National Government (3) POS 2041 - American National Government - Preferred Complete all of the following GEP 11 & 12- Science Foundation Complete the following: CHM2045C - Chemistry Fundamentals I (4) BSC2010C - Biology I (4) Grand Total Credits: 38 - 39 Common Program Prerequisites (CPP) (If applicable) Complete all of the following In addition to BSC 2010C - Biology I; BSC 2011C -Biology II; PSY 2012 - General Psychology; STA 2023 -Statistical Methods I; CHM 2045C - Chemistry Fundamentals I; and one math chosen from MAC 1114C - College Trigonometry, MAC 2233 - Concepts of Calculus, MAC 2253 - Applied Calculus OR MAC 2311C - Calculus with Analytic Geometry I from the GEP complete as follows: Complete the following: BSC2011C - Biology II (4) CHM2046 - Chemistry Fundamentals II (3) CHM2046L - Chemistry Fundamentals Laboratory (1) PCB3703C - Human Physiology (4) ZOO3733C - Human Anatomy (4) Earn at least 8 credits from the following types of Complete one of the following Physics Sequence PHY 2053C - College Physics I (PHY 2053 & PHY 2053L) and PHY 2054C - College Physics II OR PHY 2048C - General Physics Using Calculus I (PHY 2048 & PHY 2048L) AND PHY 2049C - General Physics Using Calculus II (PHY 2049 & PHY 2049L) Grand Total Credits: 24 Degree Requirements Core Requirements: Basic **6Total Credits** Complete all of the following Complete the following: HUN2201 - Fundamentals of Human Nutrition (3) Complete at least 1 of the following:

Complete all of the following

HSC2524 - Introduction to Human Disease (3)

HSC2000 - Introduction to Careers in Health Professions (3)

HSC3110 - Medical Self Assessment (3)

Core Requirements: Advanced

24Total Credits

Complete the following:

HSC3147 - Introduction to Pharmacology (3)

HSC3211 - Preventive Health Care (3)

HSC4555 - Pathophysiology I (3)

HSC4558 - Pathophysiology II (3)

HSC4501 - Epidemiology of Chronic Diseases (3)

HSC4730 - Applied Health Research Methodology (3)

HSC4572 - Clinical Nutrition (3)

HSC4930 - Health Sciences Seminar (3)

Restricted Electives

28Total Credits

Earn at least 28 credits from the following types of courses:

The Pre-Clinical track provides the foundation courses required for admission to graduate level clinical and non-clinical health programs including but not limited to medicine, pharmacy, dentistry, optometry, physician assistant, and other health-related professions.

Students are advised to check the program's website for updated information and suggested electives for specific health professions graduate programs.

It is the student's responsibility to check with graduate programs to meet prerequisites.

Some courses listed below may have additional prerequisite course requirements.

Course selection should be in consultation with an advisor and may vary by student depending on career goals and objectives.

Students must meet restricted elective credit hour requirements and UCF's 42 upper division credit hour requirements.

Courses completed and already used to satisfy General Education Program, Basic Level, Advanced Level requirements may not be used to meet the Restricted Elective requirement.

HSC 4943 - Health Sciences Internship Credit Hours:

HSC 4553 - Concepts in Pathophysiological Diagnosis Credit Hours: 3

HSC 3432 - Occupational Safety for the Health Care Professional Credit Hours: 3

HSC 4008 - Professional Development in Health Professions Credit Hours: 3

HSC 3110 - Medical Self Assessment Credit Hours: 3

HSC 3102 - Foundations of Health Behavior Credit Hours: 3

CHM 2210 - Organic Chemistry I Credit Hours: 3

CHM 2211 - Organic Chemistry II Credit Hours: 3

CHM 2211L - Organic Laboratory Techniques I Credit Hours: 2

BCH 4053 - Biochemistry I Credit Hours: 3

BCH 4054 - Biochemistry II Credit Hours: 3

BCH 4024 - Medical Biochemistry Credit Hours: 4

MCB 3020C - General Microbiology Credit Hours: 5

PCB 3023 - Molecular Cell Biology Credit Hours: 3

PCB 3063 - Genetics Credit Hours: 3

PCB 3063L - Genetics Laboratory Credit Hours: 1

PCB 3233 - Immunology Credit Hours: 3

PCB 3233L - Immunology Laboratory Credit Hours:

PCB 4805 - Endocrinology Credit Hours: 3

MCB 3202 - Principles of Infectious Disease Credit Hours: 3

ZOO 3744 - Neurobiology Credit Hours: 3

ZOO 4743C - Clinical Neuroanatomy and Neuroscience Credit Hours: 4

MCB 3203 - Pathogenic Microbiology Credit Hours: 3

MCB 3203L - Pathogenic Microbiology laboratory Credit Hours: 1

PET 3351 - Applied Exercise Physiology Credit Hours: 3

PET 4312C - Applied Biomechanics Credit Hours: 3

PET 4088 - Physical Activity & Preventive Medicine Credit Hours: 3

PET 4552 - Exercise Prescription for Special Populations Credit Hours: 3

HSC 3537 - Medical Terminology Credit Hours: 3

SYO 4400 - Medical Sociology Credit Hours: 3

CLP 3143 - Abnormal Psychology Credit Hours: 3

Grand Total Credits: 58



Departmental Exit Requirements

A minimum grade of "C" (2.0) in each program prerequisite course, in each core requirement course, and in each restricted elective is required (see GEP and CPP above). Students should note that graduate programs may require a higher level of performance for admission.

Students must take a minimum of 27 hours of upperdivision Health Sciences courses from the UCF Health Sciences program to obtain the UCF degree in Health Sciences.

Student must achieve a minimum 3.0 overall GPA for graduation.

Students who do not meet the minimum overall 3.0 GPA graduation requirement will be automatically moved to the Health Sciences – Health Promotion track during their graduation term and will earn the Health Sciences – Health Promotion track B.S. if they have met all other requirements for the program.

Students who do not meet the overall minimum 3.0 GPA graduation requirement and wish to delay graduation instead of being moved to the Health Sciences - Health Promotion track, must formally petition with the department no more than 7 days after grades post for the term. Final approval to delay graduation and remain in the Pre-Clinical track is at the discretion of the department.



University Minimum Exit Requirements A 2.0 UCF GPA

- 42 semester hours of upper division credit completed
- 60 semester hours earned after CLEP awarded
- 30 of the last 39 hours of course work must be completed in residency at UCF.

A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.

Complete the General Education Program, the Gordon Rule, and nine hours of Summer credit.

Acceptable Substitutes for Transfer Courses

BSC 2010C - Biology I can be substituted by Biology I with Lab (BSC 1010 and BSC 1010L).

BSC 2011C - Biology II can be substituted by Biology II with Lab (BSC 1011 and BSC 1011L).

CHM 2045C - Chemistry Fundamentals I can be substituted by CHM 1045 and Lab.

CHM 2046 - Chemistry Fundamentals II and CHM 2046L - Chemistry Fundamentals Laboratory can be substituted by CHM 1046 and Lab.

PHY 2053C - College Physics I can be substituted by PHY 1053 and Lab.

PHY 2054C - College Physics II can be substituted by PHY 1054 and Lab.

ZOO 3733C - Human Anatomy and PCB 3703C - Human Physiology can be substituted by Human Anatomy and Physiology I & II (BSC X093 and X094 or BSC X085 and X086). Please note that these acceptable transfer courses do not fulfill the 42 hours of upper division (3000-4000) credit required by UCF for graduation.

Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

In general, it can be noted that in each direction of the education system it has its own special features. In this regard, when reforming higher education in accordance with the principles of the Bologna Declaration, the peculiarities of the national education system should always be preserved. At the same time, we need a certain unification, standardization of the requirements, content and quality of education. The latter is necessary to solve the problem of converting diplomas in order to improve the quality and authority of higher education schools in the global educational space.

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