

COURSE DESCRIPTIONS 科目簡介

COURSES FOR TAUGHT POSTGRADUATE PROGRAMMES

Medium of Instruction: Chinese (Mandarin)

LSC501 World History of Science 世界科技歷史 (3 credits)

This course explores the development of scientific knowledge and practice from ancient times to the modern era across various cultures. It emphasises how different societies contributed to the global scientific enterprise and how scientific ideas were exchanged, transformed, and integrated into broader cultural and intellectual frameworks. The course examines major scientific advancements in fields such as astronomy, mathematics, medicine, and natural philosophy, highlighting their historical contexts and impacts on societies.

LSC502 Scientific Study and Research Methods 科學研究和方法 (3 credits)

This course provides students with an in-depth understanding of the fundamental principles and methodologies used in scientific research. The course covers various research designs, data collection techniques, data analysis methods, and the ethical considerations involved in conducting research. Students will gain practical skills in designing experiments, conducting surveys, and critically analysing scientific literature, preparing them for advanced research in their respective fields.

LSC503 Critical Analytical Thinking 批判性分析思維 (3 credits)

This course is designed to equip students with essential skills in logical reasoning, critical thinking, and analytical problem-solving. This course will explore various methods of argumentation, the evaluation of evidence, and the identification of logical fallacies. Students will learn to approach problems systematically, analyse complex situations, and make reasoned decisions. The course also emphasises the importance of critical thinking in academic research, professional practice, and everyday life.

LSC504 Programming, Artificial Intelligence & Arts 程式設計人工智能和藝術 (3 credits)

This course explores the intersection of computer science, artificial intelligence (AI), and the arts and arts designs. This course introduces students to programming concepts and AI technologies, focusing on how these tools can be creatively applied in various art forms, including visual arts, music, and interactive media. Students will gain hands-on experience in coding, AI-driven art creation, and the development of interactive art projects, blending technical skills with artistic expression.

LSC505 MLS Field Trip 博雅科學實地考察 (3 credits)

Combining knowledge of key theoretical fundamental principles with skills and judgement acquired from controlled practical experiences is important for the training of the most wanted talents for the labour market. Field trip is an effective pathway for integrating theory and practice, and students' learning experiences are enhanced through group design projects.

LSC506 MLS Event Workshop 博雅科學活動工作坊 (3 credits)

The "Event Workshop" course is designed to provide students with practical experience in planning, organising, and executing events. This course covers various aspects of event management, including budgeting, marketing, logistics, and risk management. Students

will work on real-world projects, applying theoretical knowledge to create and manage successful events. The course also emphasises the importance of creativity, communication, and problem-solving skills in event management.

LSC507 Liberal Sciences Capstone Project 博雅科學實踐專案 (6 credits)

This course is a practice-oriented course that allows students to apply their cumulative knowledge to develop and execute a comprehensive project. This project can be chosen from a wide range of topics, aligning with the student's chosen concentration or career aspirations. Through this course, students will demonstrate their ability to integrate interdisciplinary concepts, conduct in-depth research, and create innovative solutions or analyses relevant to their field of study or professional goals. The capstone project serves as a culmination of the student's academic journey, showcasing their critical thinking, problem-solving, and project management skills.

LSC511 Globalisation and Culture Evolution 全球化與文化演進 (3credits)

This course examines the intricate relationships between globalisation and cultural dynamics in contemporary society. It explores how globalisation affects cultural identities, practices, and exchanges across the world. The course covers topics such as cultural homogenisation and diversification, the global flow of media and information, the impact of transnational corporations on culture, and the resistance to cultural globalisation. Students will engage with theoretical perspectives on globalisation and culture while analysing real-world case studies.

LSC512 Pedagogy for Advanced Education 高等教育學 (3 credits)

(Prerequisite(s): Basic pedagogy courses completed in students' previous study programmes)

This course is designed to provide students with an in-depth understanding of teaching methods and strategies suitable for higher education contexts. The course explores various pedagogical theories, instructional design principles, and assessment techniques that enhance learning outcomes for advanced learners. Students will engage with both traditional and contemporary pedagogical approaches, including the use of technology in education, learner-centred methodologies, and critical pedagogy.

LSC513 Technology and Artificial Intelligence for Education 科技與人工智能賦能教育 (3 credits)

This course explores the role of technology and artificial intelligence (AI) in contemporary education. This course covers the integration of AI tools in teaching and learning, the use of educational technologies to enhance student engagement and outcomes, and the ethical considerations surrounding AI in education. Students will examine case studies of AI implementation in various educational contexts and develop skills in using AI-driven educational platforms and tools.

LSC514 Leadership and Interpersonal Skills 領導力和人際交往能力 (3 credits)

This course is designed to cultivate students' leadership capabilities, equipping them with the essential skills to lead with confidence and effectively navigate interpersonal dynamics. Participants will develop strategies for engaging team members, actively listening, managing conflicts, and exerting positive influence through constructive and repeatable communication practices. Emphasis will be placed on leading group discussions, fostering consensus, and steering collaborative efforts to achieve shared objectives. Students will practice facilitating agreement by aligning diverse perspectives, exploring collaborative solutions, and implementing strategies that foster inclusive and successful outcomes.

LSC521 Sports Science and Health Promotion 運動科學與健康推廣 (3 credits)

This course explores the principles of sports science and their application to health promotion. This course covers the fundamentals of exercise physiology, biomechanics, nutrition, and psychology in the context of promoting health and well-being. Students will learn about the design and implementation of health promotion programs, the role of physical activity in disease prevention, and strategies to encourage healthy lifestyles across different populations.

LSC522 Sports Business and Industrialisation 運動商業管理與產業化 (3 credits)

This course explores the business aspects of the sports industry, focusing on the processes of industrialisation and commercialisation in sports. The course covers the development of sports as a global business, the role of media and technology in the sports industry, and the economic, legal, and ethical challenges associated with sports commercialisation. Students will analyse case studies of successful sports organisations and develop strategies for managing sports enterprises in a competitive global market.

LSC523 Sports Technology and Design 運動科技與設計 (3 credits)

This course explores the principles and applications of engineering and design in sports equipment design, materials science, and performance monitoring. This course covers basic sports engineering techniques, including the design of sports shoes, the use of wearable body motion sensors, and performance tracking and analysis systems. Students will engage with the latest advancements in digital technologies to enhance athletic performance and innovate sports equipment design.

LSC531 Artificial Intelligence and Music Production Technology 人工智能與編曲科技 (3 credits)

This course explores the integration of artificial intelligence (AI) in the field of music production. This course covers the use of AI-driven tools for music composition, sound design, mixing, and mastering. Students will learn about the latest advancements in AI technology as applied to music and will gain hands-on experience with AI-based music production software. The course also addresses the ethical considerations and potential impacts of AI on the music industry.

LSC532 Entertainment Event Management 娛樂活動管理 (3 credits)

This course provides an in-depth exploration of the principles and practices involved in planning, organising, and managing entertainment events. The course covers various types of entertainment events, including concerts, festivals, live performances, and celebrity events. Students will learn about the key elements of event management, including budgeting, marketing, logistics, and risk management, with a focus on the unique challenges and opportunities presented by the entertainment industry.

LSC533 World History of Art 世界藝術史 (3 credits)

This course provides an in-depth exploration of artistic developments encompassing a wide range of disciplines, including visual arts, music, performance, theatre, and media. Students will engage with significant movements, influential artists, landmark performances, and key works across different cultures and historical periods, from ancient civilizations to the contemporary era. The course emphasizes understanding the intersections of art forms within their historical, cultural, and social contexts, allowing students to appreciate the diverse manifestations of human creativity and the evolution of artistic and performance ideas on a global scale.

LSC541 Digital Marketing and Social Media 數字行銷和社交媒體 (3 credits)

This course explores the strategies, tools, and techniques used in digital marketing and the role of social media in today's business environment. The course covers key areas such as content marketing, search engine optimisation (SEO), social media strategy, online advertising, and data analytics. Students will gain hands-on experience in developing and implementing digital marketing campaigns and learn how to leverage social media platforms to engage audiences and drive business growth.

LSC542 Technologies Empowered Digital Media 技術賦能的數字媒體 (3 credits)

This course provides an in-depth exploration of the technologies that empower digital media. It is designed for students interested in understanding the tools and platforms that shape digital media production, distribution, and consumption. Students will gain insights into the core technologies such as multimedia processing, interactive media, and digital content creation, and how these are applied in real-world scenarios.

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