上海外国语大学贤达经济人文学院
XIANDA COLLEGE OF ECONOMICS & HUMANITIES SHANGHAI INTERNATIONAL STUDIES UNIVERSITY

Course Syllabus

WOR1204 Information Visualisation Design Studio through Working Process

Introduction

SISUSP is a short-term course-learning program for international students and delivered by Xianda College of Economics and Humanities Shanghai International Studies University. Students get credits transferred towards their home institution when meeting academic requirements in three weeks of study.

Students also are inspired to connect with the local and international community in this program through practical learning that focus on cross-culture, Asian business, rapid development of cities and some of the top enterprises in China.
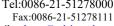
Academic Level	Undergraduate	Credits	6
Teaching Timetable	TBA		
Instructor	TBA		
Study Mode	1. Online 2. Face-to-face		
Campus	No. 390 Tiyuhui East Road, Hongkou District Shanghai 200030, China The course might be moved to online delivery due to COVID-19 pandemic. Students will be notified once the decision is made.		

Credit Hours	The number of credit hours of this course is 40 and equals to the credits of a standard semester-long Australian university course.
Total Contact Hours	The course contains a total of 55 contact hours, which consists of: 1. Orientation: 1 2. Research: 2 3. Critical review study: 4 4. Lecturing: 26 5. Seminars: 2 6. Tutorial: 4 7. Assignments: 3 8. Workshop: 2 9. In-class and after-class activities: 8 10. Revision: 1 11. Final exam: 2
Required Textbooks	Learning materials will be provided prior and/or during classes.
Prerequisite	N/A

Important Academic Integrity

- Academic integrity is *'the expectation that teachers, students, researchers and all members of the academic community act with:* honesty, trust, fairness, respect and responsibility.*'* Breaching academic integrity is also known as 'academic misconduct' or 'academic dishonesty'.

- All higher education students are expected to uphold academic integrity during their studies. An important way of upholding your academic integrity is by contacting your teachers or your school if you are having study problems and working with them on solutions. Studying and learning provides the knowledge expected of a graduate from your course but any form of cheating means that you could miss important professional knowledge and practice that you need to succeed in your future career.

- Academic dishonesty or cheating includes acts of plagiarism, misrepresentation, fabrication, failure to reference materials used properly and forgery. These may include but are not limited to claiming the work of others as your own, deliberately applying false and inaccurate information, copying the work of others in part or whole, allowing others in the course to copy your work in part or whole, failing to appropriately acknowledge the work of other

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scholars/authors through acceptable referencing standards, purchasing papers or writing papers for other students and submitting the same paper twice for the same subject.

- The foundation of good academic work is honesty. Maintaining academic integrity upholds the standards of the University.

- The responsibility for maintaining integrity in all the activities of the academic community lies with the students as well as the faculty and the University. Everyone in this community must work together to ensure that the values of truth, trust and justice are upheld.

  Academic dishonesty affects the University's reputation and devalues the degrees offered.

- The University will impose serious penalties on students who are found to have violated the Policy. The following penalties may be imposed: Expulsion, Suspension, Zero mark/fail grade, Marking down, Re-doing/re-submitting of assignments or reports, and Verbal or written warning.

Course Overview

Visual Analytics aims to facilitate the data analytics process through Information Visualisation. Information Visualisation aims to make good pictures of abstract information, such as stock prices, family trees, and software design diagrams. Well designed pictures can convey this information rapidly and effectively. The challenge for Visual Analytics is to design and implement effective Visualisation methods that produce pictorial representation of complex data so that data analysts from various fields (bioinformatics, social network, software visualisation and network) can visually inspect complex data and carry out critical decision making. This unit will provide basic HCI concepts, visualisation techniques and fundamental algorithms to achieve good visualisation of abstract information. Further, it will also provide opportunities for academic research and developing new methods for Visual Analytic methods.

Course Goals

- Assess the requirements of a design problem;

- Understand and apply the fundamental theories of data visualisations;

- Apply ideation and design methods for developing solutions that synthesise insights from a need-finding process;

- Reflectively document and present process and designed solutions;

- Developing students' data representations skills with tools and commercial power.

Class Topics

Day	Chapter
1	Orientation
2	Introduction of Information Visual Analytics
3	Information Visualisation and Data Types
4	Visualisation of Big Data
5	Visualisation of Relational Data
6	Visualisation of Complex Data
7	Human Perception and Color
8	Implemention 1
9	Implemention 2
10	Evaluation Methods
11	Complex problems 1
12	Complex problems 2
13	Complex problems 3
14	Design solution
15	Revision
16	Final exam

Assessments:

Class participation 10%

Class works 20%

Critical review 20%

Final exam 50%

Preparation/Participation and In-class Activities

Throughout the course, we will complete various in class activities. These exercises are tailored towards helping you further understand and apply the key concepts covered in the textbook. Class attendance and participation in session activities are required and rated. There is much more material in your reading assignments than we have time to discuss in class. In-class activities will delve into the most important issues. No makeup assignments are allowed.

Grade	Grade description	Grade scale %
HD	High Distinction	100 - 85
D	Distinction	84 - 75
C	Credit	74 - 65
P	Pass	64 - 50
F	Fail	49 and below

Grade Descriptors:

High Distinction 85-100

- Outstanding work that comprehensively attains the required outcome(s) showing superior knowledge, understanding, analysis, critical interpretation, presentation, and originality. Work is well-written and stylistically sophisticated, including appropriate referencing, clarity, and some creativity where appropriate. All criteria addressed to a high level.

Distinction 75-84

- Excellent work that substantially attains the required outcome(s) showing a high

level of knowledge, understanding, analysis, critical interpretation, presentation, and some originality. Treatment of material evidences an advanced understanding of ideas Demonstration of initiative, complex understanding, and analysis Work is well-written and stylistically strong. All criteria addressed strongly.

Credit 65-74

- Work that soundly attains the required outcome(s) showing a good level of knowledge, understanding, analysis, presentation, and some evidence of critical interpretation. Treatment of material displays a good understanding of ideas. Work is well-written and stylistically sound, with a minimum of syntactical errors. All criteria addressed clearly.

Pass 50-64

- Work that satisfactorily attains the required outcome(s), with adequate knowledge, understanding, analysis, and presentation. Treatment of material indicates a satisfactory understanding of ideas. Work is adequately written, with some syntactical errors. Most criteria addressed adequately.

Fail 0-49

- Work that fails to attain the required outcome(s), lacking in basic knowledge, understanding, analysis, and presentation. Treatment of ideas indicates an inadequate understanding of ideas Written style inappropriate to task; major problems with expression. Most criteria not clearly or adequately addressed.

About Xianda College of Economics and Humanities
Shanghai International Studies University

Xianda College of Economics and Humanities, Shanghai International Studies University, was established in 2004 and was one of the first full-time independent institutions of higher education in Shanghai approved by the Ministry of Education. It now has two campuses: Hongkou and Chongming. Hongkou Campus is located in the heart of northeast downtown in Shanghai, adjacent to Shanghai International Studies University, whereas Chongming Campus is situated in Chenjia Town, Chongming District, with a beautiful neoclassical Tuscan style architecture and unique ecological environment complementing each other.

Benefiting from the support of the excellent teaching faculty and expertise in foreign language teaching and research of Shanghai International Studies University, we have built a talent cultivation system. It lays a strong emphasis on language learning, economics subjects and coordinated development of other disciplines (professional learning and English). Currently, it offers 22 undergraduate programs in six main fields of literature, law, economics, management, education and art, with approximately 8000 full-time undergraduate students.

Adhering to the open mode of running the college, we take the path of globalization of higher education by introducing advanced educational concepts and management modes adopted in leading domestic and foreign universities. We have introduced talented returnees, accounting for more than 50% of the teaching faculty, and established solid, friendly and cooperative partnerships with over 100 prestigious universities in 16 countries and regions, including the United Kingdom, the United States, Canada, Australia, Germany, France, Spain, Switzerland, Japan, Korea, Egypt, Jordan, the United Arab Emirates, Singapore, Hong Kong, China and Taiwan, China. Through programs of credit transfer, co-operative internship, student exchange, government scholarship, dual bachelor's degrees and combined bachelor's and master's degree programs, it offers students with a variety of overseas opportunities to involve them in different international contexts to develop their global outlook and to improve their cross-cultural communication skill.

We embrace students' individuality and enhances their foreign language skills by offering a varied, wide selection of English or bilingual classes.