CHENG SHIU UNIVERSITY

M06N101 Project Management (3 units)

Course Syllabus-18 weeks

SEMESTER: First
DAY/TIME: T1T2T3 8:00~11:00
PROFESSOR: Dr. Wen-Jyh D. WANG
FACULTY: Department of Industrial Engineering and Management
EMAIL: wdw1@csu.edu.tw
CLASS: 2A(Graduate School), Department of Industrial Engineering and Management
NUMBER OF STUDENTS: 10 students

COURSE DESCRIPTION

In response to the changing nature of business, many companies adopt project management to increase competence in flexibility. The role of project manager is getting more important than before.

This course is conducted in three parts: lecture of project planning, case project study and a project plan development. The content of the course includes: definition and characteristics of project, request for proposal from client's point of view, project plan development and project control.

Students will be able to identify a project by definition, analyze project performance and provide suggestions, and developing a request for proposal and project plan...

METHOD OF INSTRUCTION

Lecture and group discussion will be employed in this course.

COURSE OBJECTIVES(3~5 objectives)

1. Objective 1 Define a project.
2. Objective 2 Develop a RFP.
3. Objective 3 Develop a Project Plan.
4. Objective 4 Develop a Schedule Plan

TEXT AND REQUIRED SUPPLIES:

1. Textbook: Effective Project Management 5e, Clements Gido, South-Western, 2012.
2. Supplies and/or tools: MicroSoft Project.

GRADING CRITERIA:

1. Attendance/Participation	10%
2. Homework/Seatwork	30%
3. Midterm Exam	30%
4. Final Exam	30%
Total	**100%**

CLASS SCHEDULE:

WEEK	DATE	TOPIC/ACTIVITY
01	9/9	Course Description and Syllabus
02	9/16	Project Management Concept
03	9/23	Definition of a Project—attributes and life cycle
04	9/30	Identifying and Selecting Project--
05	10/7	Request for Proposal
06	10/14	Developing Project Proposal
07	10/21	Project Cost
08	**10/28**	Mid-term Exam
09	11/4	Defining Project Scope
10	11/11	Developing the Schedule
11	11/18	Resource Utilization
12	11/25	Determining Costs, Budgets, and Earned Value
13	12/2	Managing Risk
14	12/9	Closing the Project
15	12/16	The Project Manager and Project Team
16	12/23	Project Communication and Documentation
17	12/30	Organizational Structures
18	1/6	Final Exam

CHENG SHIU UNIVERSITY

40AQ222 English Teaching Material Design for Children (3 units)

Course Syllabus-18 weeks

SEMESTER: First
DAY/TIME: W3& W4 10:00~12:00
PROFESSOR: Pei-Wen Duo(Gina Duo)
FACULTY: Department of Early Childhood Care and Education
EMAIL: ginad0926@gmail.com
CLASS: 2B, Department of Early Childhood Care and Education
NUMBER OF STUDENTS: 52 students

COURSE DESCRIPTION

The main purpose of this course is to understand the trends and issues in teaching English in kindergarten and how to use English guidelines and techniques to design multi-materials in order to create a better learning environment for children to learn English spontaneously.

METHOD OF INSTRUCTION

In this course, the methods of instruction includes lecture, team teaching, group discussion, and two group projects- design Halloween activities for children, age 3-6 before Midterm. Another project would be hands-on activates- design picture books and will have a picture books performance on 12/25.

COURSE OBJECTIVES (3~5 objectives)

1. Knowledge of trends and issues in teaching English in kindergarten.
2. Knowledge of basic principles in teaching English in kindergarten.
3. Understand how to use Western holidays to create English learning environment.
4. Ability to design multi-materials (e.g., picture books, flash cards, puzzles etc...) to teach English in kindergarten.

TEXT AND REQUIRED SUPPLIES:

1. Textbook (required): Self-Design Material
2. Textbook (supplement):
   A. Teaching in Taiwan's Kindergartens by Mark Western.
   B. 101 個英文教學遊戲(101 English teaching game) by 張湘君，許西玲

GRADING CRITERIA:

1.Attendence/Participation	20%	Cut each class deducts 1 point, late in class deduct 0.5 point. In class participation. Assignment must be ON TIME. After due date, the assignment not acceptable.
2.Assignment	5%	Halloween activities reflection.
3.Midterm Project	35%	Lesson plan 30%, preparation 20%, costume and stylist 15%, cooperation 15% participation and attentiveness 20%

4.Final Project	40%	script30%, typesetting and illustration 30%, cover page 10%, creativity15%, age appropriateness 15%
Total	100%	

CLASS SCHEDULE:

WEEK	DATE	TOPIC/ACTIVITY
01	9/11	Course and assignment introduction.
02	9/18	Trends and issues in English learning in kindergarten.
03	9/25	Classroom basic English and practice.
04	10/2	Western holidays and lesson plan design.
05	10/9	Halloween lesson plan discussion.
06	10/16	Halloween activities teaching aids design and activity location prospection.
07	10/23	Halloween activities teaching aids design
08	10/30	Halloween activities(@ Cheng-Shiu kindergarten)
09	11/6	Types of picture books (about internal script).
10	11/13	Types of picture books (about external appearances).
11	11/20	Hands on learning- design exterior of picture books
12	11/27	Writing script, illustration and typesetting techniques.
13	12/4	Hands on learning- Script design and illustration drawing.
14	12/11	Introduction of storyboard.
15	12/18	Hands on learning-Cover page design.
16	12/25	Picture books performance.
17	1/1	New Year (No class).
18	1/8	Couse reflection and discussion.

CHENG SHIU UNIVERSITY

40AV091 Life Education（生命教育） (2 units)

Course Syllabus-18 weeks

SEMESTER: First
DAY/TIME: Tue3、Tue4 10：10-12：00
PROFESSOR: Dr. Mei-Wen Chiu（邱美文）
FACULTY: Department of Early Childhood Care and Education
EMAIL: joychiu@csu.edu.tw
CLASS: ECCE Third, Department of Early Childhood Care and Education
NUMBER OF STUDENTS: 42 students

COURSE DESCRIPTION

Life Education is a consultancy designed to raise the global level of education and create an international bridge of communication and understanding. The mission of LIFE is to create, encourage, and strengthen cultural understanding through educational exchange and advancement.

METHOD OF INSTRUCTION

This section should include the types of activities that you will use to facilitate student learning. For example, lecture, seminar, large or small group discussion, and lab experimentation are different methods of instruction. You may want to use a combination of methods to help students achieve course objectives.

COURSE OBJECTIVES(3~5 objectives)

1. Acquire appropriate social and emotional skills, knowledge and attitudes.
2. Develop an awareness of the importance of practicing and maintaining good health habits.
3. Develop a love and appreciation for their bodies.
4. Display a positive attitude of caring, compassion and concern for others.

TEXT AND REQUIRED SUPPLIES:

1. Life Education，Mei-Wen Chiu
2. Website：http://csm00.csu.edu.tw/0542/991/index.htm

GRADING CRITERIA:

1. Attendance/Participation	15%
2. Homework/Seatwork	15%
3. Project	20%
4. Midterm Exam	25%
5. Final Exam	25%
Total	**100%**

CLASS SCHEDULE:

WEEK	DATE	TOPIC/ACTIVITY
01	0910	Introduction
02	0917	Mystery of Life
03	0924	Recognize yourself I：self-exploration
04	1001	Recognize yourself II：value life、treasure life
05	1008	Life and Interpersonal Relationship
06	1015	People and environment I
07	1022	People and environment II
08	**1029**	Mid-term
09	1105	People and Life
10	1112	Difficult problem of Life：Lost and Sad
11	1119	Paint you life in colors
12	1126	Faith and Life
13	1203	Listening to Life
14	1210	Practice Life Education
15	1217	Design and Develop Curriculum of Life Education
16	1224	Design Active of Life Education
17	1231	Teaching Method of Life Education
18	**0107**	Final

CHENG SHIU UNIVERSITY

40HN281 Biomaterials (3 units)

Course Syllabus-18 weeks

SEMESTER: First
DAY/TIME: W1W2W3 8:10~12:00
PROFESSOR: TSUNG-HUA YANG
FACULTY: Department of Cosmetics and Fashion Styling

EMAIL: thyang@csu.edu.tw
CLASS: 3A(班級), Department of Cosmetics and Fashion Styling
NUMBER OF STUDENTS: 29 students

COURSE DESCRIPTION

The course highlights the scientific and engineering fundamentals behind biomaterials and their applications.

METHOD OF INSTRUCTION

1. lecture
2. group discussion
3. video watching
4. exams/quizzes
5. paper reading and report

COURSE OBJECTIVES(3~5 objectives)

1. Classes of Materials
2. Biological Testing of Biomaterials
3. Application of Materials in Medicine, Biology, and Artificial Organs

TEXT AND REQUIRED SUPPLIES:

1. Biomaterials: Buddy D. Ratner

GRADING CRITERIA:

1. Attendance/Participation	15%
2. Homework/Seatwork	15%
3. Project	20%
4. Midterm Exam	25%
5. Final Exam	25%
Total	**100%**

CLASS SCHEDULE:

WEEK	DATE	TOPIC/ACTIVITY

01	9/11	Introduction
02	9/18	Classes of Materials Used in Medicine-1
03	9/25	Classes of Materials Used in Medicine-2
04	10/2	Classes of Materials Used in Medicine-3
05	10/9	Host Reactions to Biomaterials and Their Evaluation-1
06	10/16	Host Reactions to Biomaterials and Their Evaluation-2
07	10/23	Biological Testing of Biomaterials-1
08	10/30	Mid-Term Exam
09	11/6	Biological Testing of Biomaterials-2
10	11/13	Biological Testing of Biomaterials-3
11	11/20	Degradation of Materials in the Biological Environment-1
12	11/27	Degradation of Materials in the Biological Environment-2
13	12/4	Application of Materials in Medicine, Biology, and Artificial Organs-1
14	12/11	Application of Materials in Medicine, Biology, and Artificial Organs-2
15	12/18	Application of Materials in Medicine, Biology, and Artificial Organs-3
16	12/25	Review
17	1/1	Holiday
18	1/8	Final Exam

CHENG SHIU UNIVERSITY
409Q042 Managerial Psychology (2 units)
Course Syllabus-18 weeks

SEMESTER: First
DAY/TIME: T4T5 AM 11:00~13:00
PROFESSOR: Pei-Wen Huang
FACULTY: Department of Business Administration
EMAIL: pamela30@ms34.hinet.net
CLASS: 2B(班級), Department of Business Administration
NUMBER OF STUDENTS: 56 students

COURSE DESCRIPTION

This course aims to introduce an overview of major psychological concepts and techniques that conveys how to exercise a solid professional performance and achieve personal satisfaction. Approaches to perception, learning, personality, conflict and motivation are examined, as well as theories of human behavior at work. Topics not only include those that students can relate to in everyday life, we also explore topics such as cross-cultural relations, working in teams, empowerment, and other relevant matters with the goal of developing an appreciation of key principles and findings of the psychology of individual behavior. After learning this course, students may be able to understand organizational psychology, human relations, mediation, and/or interpersonal skills.

METHOD OF INSTRUCTION

Methods of instruction would include lecture, group discussion/presentation, and psychological surveys. Lecture would be delivered with the help of ppt. presented. Adequate group discussion and presentation would be assigned to students to stimulate their thoughts and improve their presentation skills. During the class, psychological measures related to personality, self-esteem, physical-psychological health, etc., would also be conducted to help students to both understand themselves and also people in the work place. Having learned the major concepts of managerial psychology, students should be able to learn the way to stimulate and motivate themselves and therefore contribute themselves in the work place.

COURSE OBJECTIVES(3~5 objectives)

1. Objective 1: To learn the basics of business psychology and human behavior
2. Objective 2: To know how to deal with individuals
3. Objective 3: To know how to deal with small groups and organization
4. Objective 4 : Finally, to know how to realize individuals' potential

TEXT AND REQUIRED SUPPLIES:

1. Textbook (required): Applying Psychology: Individual & Organizational Effectiveness
   Dubrin, Andrew/ published by Pearson Education, Inc.,

GRADING CRITERIA:

1. Attendance/Participation	20%
2. Homework/Seatwork	20%
3. Midterm Exam	30%
4. Final Exam	30%
Total	**100%**

CLASS SCHEDULE:

WEEK	DATE	TOPIC/ACTIVITY
01	9/10	Foundations of Business Psychology
02	9/17	Perception, Learning, Values, and Ethics
03	9/24	Individual Differences and Work Performance
04	10/1	Understanding Yourself.
05	10/8	Problem Solving and Creativity
06	10/15	Motivating Yourself and Others.
07	10/22	Achieving Wellness and Managing Stress
08	10/29	Managing Conflict and Anger
09	11/5	Midterm Exam
10	11/12	Building Workplace Relationships
11	11/19	Coping with a Variety of Personalities
12	11/26	Communicating with People
13	12/3	Groups and Group Decision Making.
14	12/10	Teamwork and Adapting to the Organization
15	12/17	Leading and Influencing Others.
16	12/24	Achieving Personal Productivity.
17	12/31	Achieving a Rewarding and Satisfying Career
18	1/7	Final Exam

CHENG SHIU UNIVERSITY

409A233 Strategic Management (3 units)
Course Syllabus-18 weeks

SEMESTER: First
DAY/TIME: W2W3W4 9:00~12:00
PROFESSOR: Fu-Sheng Tsai
FACULTY: Department of Business Administration
EMAIL: tsaifs@csu.edu.tw
CLASS: 4A, Department of Business Administration
NUMBER OF STUDENTS: 60 students

COURSE DESCRIPTION

The course requires students to apply the concepts, principles, frameworks cases and tools of SM into real-life, practical settings. For such requirement, local (domestic) cases are introduced and discussed in each week, on the basis of the understandings learnt from the text book that reflects well the mainstream SM thoughts.

METHOD OF INSTRUCTION

Methods of instruction include lecture, case discussion, presentation, and examination with required reading.

COURSE OBJECTIVES(3~5 objectives)

1. Improving students' understanding of Strategic Management
2. Improving students' critical thinking ability
3. Improving students' presentation skills

TEXT AND REQUIRED SUPPLIES:

1. Textbook (required): TITLE and author
2. Textbook (supplement): TITLE and author
3. Supplies and/or tools:

GRADING CRITERIA:

1. Attendance/Participation	30%
2. Presentation	20%
3. Midterm Exam	30%
4. Final Exam	20%
Total	**100%**

CLASS SCHEDULE:

Week	Date	Topics	Materials
1		Introduction & Course Overview	
2		(A1) Fundamentals of Strategic Management (C1) Case Study (1)	Ch. 1
3		(A2) Strategic Analysis (I): External Environments (C1) Case Study (2)	Ch. 2
4		(A3) Strategic Analysis (II): Internal Capabilities (C1) Case Study (3)	Ch. 3
5		(A4) Strategy Formulation-Corporate Level (C1) Case Study (4)	Ch. 6
6		(A5) Strategy Formulation- Corporate Level (II) (C1) Case Study (5)	Ch. 7,8
7		(A5) Strategy Formulation- Corporate Level (III) (C1) Case Study (6)	Ch. 9,10
8		(A6) Strategy Formulation- SBU; Functional Level (C1) Case Study (7)	Ch. 4,5
9		(A7) Strategy Implementation & Leadership (I) (C1) Case Study (8)	Execution Ch. 1, 6
10		(A8) Strategy Implementation & Leadership (II) (C1) Case Study (9)	Execution Ch. 7-9
11		(D1) Mid-term Problem-solving exercise- Part I	
12		(D1) Mid-term Problem-solving exercise- Part II	
13		(B1) Theoretical Perspectives in Strategy (I)	Basics / IO / TCE
14		(B2) Theoretical Perspectives in Strategy (II)	InT / RDP / OEco
15		(B3) Theoretical Perspectives in Strategy (III)	RBV/KBV/DC
16		(B4) Special Topics in Strategic Management (I) (C1) Case Study (10)	TMT & Cognition
17		(B5) Special Topics in Strategic Management (II) (C1) Case Study (11)	Inter-org relationships
18		(D2) Final Exam	

CHENG SHIU UNIVERSITY

409A152 Financial Management (3 units)

Course Syllabus-18 weeks

SEMESTER: First
DAY/TIME: M6M7M8 13:00~16:00
PROFESSOR: Dr. Shuenn-Ren Cheng
FACULTY: Department of Business Administration
EMAIL: krystl0926@gmail.com
CLASS: 2A, Department of Business Administration
NUMBER OF STUDENTS: 64 students

COURSE DESCRIPTION

This course aims to teach business students the basic things they need to know in the financial aspects of a business and even in their personal life. It will teach the students the most important concepts and principles and yet, the most fundamental and the most useful ones. Since the students taking this class are not finance majors but business majors, the course covers the topics in a more managerial aspect which is analyzing rather than the focusing on stuff like creating financial statements.

METHOD OF INSTRUCTION

Lecture is primary form of instruction. However, seatworks and homeworks will be given to the students. Midterm and final exams are the only exams involved in this class.

COURSE OBJECTIVES (3~5 objectives)

1. To understand the fundamental and essential concepts and principles of financial management.
2. To be able to understand and analyze simple financial statements.
3. To let students view financial management in a managerial point of view.

TEXT AND REQUIRED SUPPLIES:

1. Textbook (required): CORPORATE FINANCE ESSENTIALS (Jordan, Westerfield and Ross)
2. Textbook (supplement): CORPORATE FINANCE-THE CORE (Berk and DeMarzo)
3. Tool: a calculator

GRADING CRITERIA:

1. Attendance/Participation	15%
2. Homework/Seatwork	35%
3. Midterm Exam	25%
4. Final Exam	25%
Total	**100%**

CLASS SCHEDULE:

WEEK	DATE	TOPIC/ACTIVITY
01	Sept. 9	Introduction to Financial Management
02	Sept. 16	Financial Statements, Taxes and Cash Flow Working with Financial Statements
03	Sept. 23	Introduction to Valuation: The Time Value of Money
04	Sept. 30	Discounted Cash Flow Valuation
05	Oct. 7	Interest Rates and Bond Valuation
06	Oct. 14	Equity Markets and Stock Evaluation
07	Oct. 21	Review for Midterms
08	Oct. 28	Midterm Exam
09	Nov. 4	Net Present Value and Other Investment Criteria Making Capital Investment Decisions
10	Nov. 11	Some Lessons from Capital Market History
11	Nov. 18	Risk and Return
12	Nov. 25	Cost of Capital Leverage and Capital Structure
13	Dec. 2	Dividends and Dividend Policy Raising Capital
14	Dec. 9	Short-Term Financial Planning
15	Dec. 16	Working Capital Management
16	Dec. 23	International Aspects of Financial Management
17	Dec. 30	Review for Final Exam
18	Jan. 6	Final Exam

CHENG SHIU UNIVERSITY
40MN301 Ergonomics (2)
Course Syllabus-18 weeks

SEMESTER: First
DAY/TIME: T6T7 13:10~15:00
PROFESSOR: Li-Ling Tsao 曹莉玲
FACULTY: Department of Architecture Design
EMAIL: t865302t77@yahoo.com.tw
CLASS: 1A, Department of Architecture Design
NUMBER OF STUDENTS: 60 students

COURSE DESCRIPTION

Ergonomics derives from two Greek words: ergon, meaning work, and nomoi, meaning natural laws. Combined they create a word that means the science of work and a person's relationship to that work.

In the course of Ergonomics. We will mainly focus on the body dimensions and the relationships between spaces and activities in our daily lives. In application ergonomics is a discipline focused on making spaces, products and tasks in a safe, comfortable and efficient for the user. Also Ergonomics will help students to create a basic concept for their future education in Architectural Design and Interior Design as well.

METHOD OF INSTRUCTION
1.Lecture will be the primary form of instruction.
2.Mid-term exam will be held for a better learning result.
3. Assignment at the end of the semester is required for a final conclusion.

COURSE OBJECTIVES(3~5 objectives)

1. Objective 1:An overall understanding of human Dimensions scales.
2. Objective 2:Enhance the relationship between human body and activities.
3. Objective 3:How human scales define spaces.
4. Objective 4 : Create a basic concept for the future education in Architectural and Interior Design.

TEXT AND REQUIRED SUPPLIES:

1. Textbook (required):
   Planning Office Spaces/ Juriaan van Meel, Yuri Martens, Hermen Jan van Ree
2. Textbook (supplement):
   World Leading-edge Interior Products/ edited by Fumio Shimizu
3. Supplies and/or tools:
   Slides and Websites for references

GRADING CRITERIA:

1. Attendance/Participation	20%
2. Midterm Exam	30%
5. Final Assignment/Exam	50%
Total	**100%**

CLASS SCHEDULE:

WEEK	DATE	TOPIC/ACTIVITY
01	09/12	Introduction of Body dimensions
02	09/19	**Moon festival (1 day off)**
03	09/26	Human Scales and Postures
04	10/03	dimensions in Restaurant and Kitchen space
05	10/10	**Double 10th Day (1 day off)**
06	10/17	dimensions in Office Space and restroom
07	10/24	Ergonomics and Furniture Design
08	10/31	**Midterm Exam**
09	11/07	Examples of Furniture Design
10	11/14	Examples of Furniture Design
11	11/21	Ergonomics Guidelines for Residence Design
12	11/28	Ergonomics Guidelines for Residence Design
13	12/05	Ergonomics Guidelines for Office Design
14	12/12	Ergonomics Guidelines for Office Design
15	12/19	Aesthetics and ergonomics in product design
16	12/26	Aesthetics and ergonomics in product design
17	01/02	Working with aesthetics and ergonomics
18	01/09	**Final Exam**

CHENG SHIU UNIVERSITY

40KA161

Asia-Pacific Trade, Economy and Market (2 credits)

Course Syllabus-18 weeks

SEMESTER: First
DAY/TIME: M3M4 10:00~12:00
PROFESSOR: DR. Tai Wan-Ping
FACULTY: Department of International Business
EMAIL: wptai@csu.edu.tw
CLASS: 4A, Department of International Business
NUMBER OF STUDENTS: 54 students

COURSE DESCRIPTION

1. Area Studies
2. Countries Studies in Asia Pacific
3. Issus Studies in Asia Pacific

METHOD OF INSTRUCTION

1. Group discussions
2. Personal Report
3. teacher teach.

COURSE OBJECTIVES(3~5 objectives)

1. Knowledge: International Trade, Situation Analysis Trade, Economy and Market
2. Skills: market understanding and research capabilities.
3. Attitude: cross-cultural understanding.

TEXT AND REQUIRED SUPPLIES:

1. Samuel Cy Ku, Tai WanPing , Weng Chun Jie, Xiaowen Xuan, Asia-Pacific Economic Market (Taipei: Future Publishing, 2010).
2. Other Resource by Professor Appointment.

GRADING CRITERIA:

1. Attendance/Participation	10%
2. Project	30%
3. Midterm Exam	30%
4. Final Exam	30%
Total	**100%**

CLASS SCHEDULE:

WEEK	DATE	TOPIC/ACTIVITY
01	9/9	Course Description
02	9/16	Overview of the Asia-Pacific region (historical background)
03	9/23	Asia-Pacific political and economic changes
04	9/30	The economic situation in Asia-Pacific countries - China
05	10/7	The economic situation in Asia-Pacific countries - Japan and South Korea
06	10/14	The economic situation in Asia-Pacific countries - Singapore and Malaysia
07	10/21	The economic situation in Asia-Pacific countries -Vietnam
08	**10/28**	Midterm
09	11/4	The economic situation in Asia-Pacific countries - Thailand
10	11/11	The economic situation in Asia-Pacific countries - Indonesia
11	11/18	The economic situation in Asia-Pacific countries - the Philippines
12	11/25	Asia-Pacific region and cross-border economic and trade issues-ASEAN regional economic
13	12/2	Asia-Pacific region and cross-border economic and trade issues-APEC regional economic
14	12/9	Chinese transnational networks
15	12/16	Taiwanese transnational networks
16	12/23	Transnational labor, immigration and marriage
17	12/30	Regional economic cooperation and trade agreements
18	**1/6**	Final Exam

CHENG SHIU UNIVERSITY
40IA551 Algorithms (3 Credits)
Course Syllabus-18 weeks

SEMESTER: Fall Semester (102 First)
DAY/TIME: W5W6W7 / 13:10~16:00
PROFESSOR: 程深 Shen Cherng
FACULTY: Department of Computer science and Information engineering
EMAIL: k0523@csu.edu.tw; cherngs@csu.edu.tw
CLASS: 3A, Department of Computer science and Information engineering
NUMBER OF STUDENTS: 60 students

COURSE DESCRIPTION

This course is designed to train the students to understand the basic data structure and algorithms as well as to use C++ for programming in practice.

METHOD OF INSTRUCTION

The lecture, on-line lab, group discussion and quiz are basically proposed as the method of instruction.

COURSE OBJECTIVES (3~5 objectives)

1. Objective 1: Understand the basic data structure and algorithms
2. Objective 2: Promote the skill of C++ programming capability
3. Objective 3: Train the Logic thinking

TEXT AND REQUIRED SUPPLIES:

1. Textbook (required): No Text book is required.
2. Supplies : Handouts 【http://openhome.cc/Gossip/AlgorithmGossip/index.html】

GRADING CRITERIA:

1. Attendance/Participation	15%
2. Homework/Seatwork	15%
3. Project	20%
4. Midterm Exam	25%
5. Final Exam	25%
Total	**100%**

CLASS SCHEDULE:

WEEK	DATE	TOPIC/ACTIVITY
01	**9-11**	Introduction to data structure and Algorithm
02	**18**	Basic of analysis of Fibonacci Series
03	**25**	Basic of analysis of Tower of Hanoi
04	**10-2**	quiz
05	**9**	Tree Search
06	**16**	Interpolation Search
07	**23**	Hashing Search
08	**30**	Mid term
09	**11-6**	Binary Search
10	**13**	Selection sort, Insertion sort and Bubble sort
11	**20**	Merge Sort
12	**27**	Radix Sort
13	**12-4**	quiz
14	**11**	Gray Code
15	**18**	Random Number Analysis
16	**25**	Group study
17	**1-1**	Holiday
18	**8**	Final Exam

CHENG SHIU UNIVERSITY

4040103 Basic Computer Concepts (3 units)

Course Syllabus-18 weeks

SEMESTER: First
DAY/TIME: T1T2T3 8:00~11:00
PROFESSOR: Long-Bing Hsieh
FACULTY: Department of Computer Science and Information Engineering
EMAIL: lbhsieh@csu.edu.tw
CLASS: 1C, Department of Mechanical Engineering
NUMBER OF STUDENTS: 54 students

COURSE DESCRIPTION

Students will gain basic hands-on experience using the integrated programs of Microsoft Office 2007. This course is designed to use the basic features of Word, Excel, and PowerPoint, and to integrate data between the applications.

METHOD OF INSTRUCTION

Lecture, 1 hours per week; lab, 2 hours per week.

COURSE OBJECTIVES(3~5 objectives)

1. Gain basic knowledge of modern-day computing technology
2. Text editing and formatting using Word 2007
3. Spreadsheet manipulation using Excel 2007
4. Presentations using PowerPoint 2007

TEXT AND REQUIRED SUPPLIES:

1. Lecture Notes (in PPT format) prepared by the Lecturer.

GRADING CRITERIA:

1. Attendance/Participation	5%
2. Homework/Seatwork	25%
3. Project	10%
4. Midterm Exam	30%
5. Final Exam	30%
Total	**100%**

CLASS SCHEDULE:

WEEK	DATE	TOPIC/ACTIVITY
01	9/10	Word 2007 – Create your first document
02	9/17	Make documents look great
03	9/24	Table of contents (I)
04	10/1	Table of contents (II)
05	10/8	Mail merge(I)
06	10/15	Mail merge (II)
07	10/22	Excel 2007 – Create your first workbook
08	10/29	Enter formulas
09	11/5	**Midterm**
10	11/12	Figure out dates using formulas
11	11/19	Create a chart
12	11/26	Get started with Pivot Table reports
13	12/3	PowerPoint 2007 – Create your first presentation
14	12/10	Add sound effects and photos to a presentation
15	12/17	Personalize your slide design
16	12/24	Discover the power of custom layouts
17	12/31	Get visual with SmartArt graphics
18	1/7/2014	**Final Examination**

CHENG SHIU UNIVERSITY

40B2271 Information Security (3 units)

Course Syllabus-18 weeks

SEMESTER: First
DAY/TIME: T6T7T8 13:10~16:00
PROFESSOR: Dr. Wei-ming Ma
FACULTY: Department of Information Management
EMAIL: wma@csu.edu.tw
CLASS: 4A(班級), Department of Information Management
NUMBER OF STUDENTS: 53 students

COURSE DESCRIPTION

Information security provides a comprehensive ethical hacking and network security educational program to meet the standards of highly skilled security professionals.

METHOD OF INSTRUCTION

The course lectures will be given on theory of Information security, the labs on each unit are hand-on activities to help student master ethical hacking technologies. There are four quizzes on each three units, midterm on the ninth week, and final. Students are required to read material posted on the ilms.csu.edu.tw. It will be one field trip to visit information security industry in Kaohsiung.

COURSE OBJECTIVES(3~5 objectives)

1. Objective 1 The object of this course is to help student master an ethical hacking methodology that can be used in a penetration testing or ethical hacking situation.
2. Objective 2 The class will immerse the students into a hands-on environment where they will be shown how to conduct ethical hacking.
3. Objective 3 to help student master ethical hacking technologies

TEXT AND REQUIRED SUPPLIES:

1. Textbook (required): Certification of Ethetic Hacker, Version 8, EC-Council IT Security Courses Certification Training materials.
2. Supplies and/or tools: Handout by Dr. Wei-ming Ma

GRADING CRITERIA:

1. Attendance/Participation	20%
2. Homework/Seatwork	20%
3. Midterm Exam	30%
4. Final Exam	30%
Total	**100%**

CLASS SCHEDULE:

WEEK	DATE	TOPIC/ACTIVITY
01	9/10	Introduction to Ethical Hacking
02	9/17	Footprinting and Reconnaissance
03	9/24	Scanning Networks
04	10/01	Enumeration
05	10/08	System Hacking
06	10/15	Trojans and Backdoors
07	10/22	Viruses and Worms
08	10/29	Midterm
09	11/05	Sniffers
10	11/12	Social Engineering
11	11/19	Denial-of-Service
12	11/26	Session Hijacking
13	12/03	Hacking Webservers
14	12/10	Hacking Web Application
15	12/17	SQL Injection
16	12/24	Hacking Wireless Network
17	12/31	Evading IDS, Firewalls and Honeypots
18	1/07	Final

CHENG SHIU UNIVERSITY
【D0B2081】【Seminar III】 【1 units】
Course Syllabus-18 weeks

SEMESTER: 102, First.
DAY/TIME: S5,S6 13:10~15:00
PROFESSOR: Yeong-Cheng Pao
FACULTY: Department of Information Management.
EMAIL: ycliou@csu.edu.tw
CLASS: 2A, Department of Information Management.
NUMBER OF STUDENTS: 15 students

COURSE DESCRIPTION

By presentation to let students understand the research field of faculty and information services facilities provided by university, to help students look for suitable advisor and defense thesis.

METHOD OF INSTRUCTION

1. Way of problem-based learn
2. Way to teach courses and through practical examples to explain
3. Through the actual writing and presentation students are family with the skill of scientific writing and group learning

COURSE OBJECTIVES(3~5 objectives)

1. Assist students guidance reported to thesis
2. Be family with the skill of scientific writing and research
3. Let students understand the research areas of teachers and school research information services

TEXT AND REQUIRED SUPPLIES:

1. Textbook (required): Instructor's PowerPoint slides and Notes
2. Textbook (supplement): Instructor's PowerPoint slides and Notes

GRADING CRITERIA:

1. Attendance/Participation	20%
2. Homework/Seatwork	50%
3. Project	30%
4. Midterm Exam	0%
5. Final Exam	0%
Total	**100%**

CLASS SCHEDULE:

WEEK	DATE	TOPIC/ACTIVITY
01	09/11	What thesis is and types of thesis
02	09/18	How to find title of thesis and essay
03	09/25	The importance of literature review and search tools of literatures
04	10/02	Survey, analysis methods and summary of literatures
05	10/09	Modeling the problem of thesis
06	10/16	Assumptions, architecture and analysis of the problem model
07	10/23	Problem model method (1): main results
08	10/30	Problem model method (2): theoretical issues, applications, empirical issues
09	11/06	Midterm- Outside experts lecturing (1)
10	11/13	Problem model (3): proof, system analysis, numerical analysis, statistical analysis
11	11/20	Validation and testing of the problem model: questionnaire v.s. simulation
12	11/27	Concludes and discussions
13	12/04	Existence of appendix and index
14	12/11	Briefing and presentation of thesis and papers
15	12/18	Papers submitted and oral test
16	12/25	Outside experts lecturing (2)
17	01/02	Outside experts lecturing (3)
18	01/09	Final Project Report-Thesis advisor selected and the graduation thresholds Of MIS

CHENG SHIU UNIVERSITY

40BA10 Interactive web design (3 units)

Course Syllabus-18 weeks

SEMESTER: First
DAY/TIME: W2W3W4 09:10~12:00
PROFESSOR: Dr. Hui-To Lin (資管系林輝鐸)
FACULTY: Department of Information Management
EMAIL: hunton@csu.edu.tw
CLASS: 2A(班級), Department of Information Management
NUMBER OF STUDENTS: 55 students

COURSE DESCRIPTION

Writing full-blown web-based applications, without a good development environment can be a daunting task. Developers often have to struggle with the web's unique requirements when building web applications. Issues such as: lack of persistence in the HTTP protocol, limited user interface elements, and limited language support can make even the simplest program seem difficult to write.

But Microsoft's ASP.NET was designed to address many of these issues. ASP.NET is the combination of two Microsoft technologies: ASP or "Active Server Pages" - for creating dynamic web pages, and the .NET Framework - for building and running robust enterprise applications. Together, they make writing Web applications quiet easy. Let's take a look at a very basic ASP.NET page:

If you recall - in module 3 we populated a DropDown list by dynamically instantiating a set of "list items" and then adding them to the DropDown - one at a time. Adding content dynamically is actually quiet common, and in real world applications many controls get their data from an external data source. This data source may be a "database table", or some other collection of data.

For example, a list of items in a shopping cart may be kept in an array-list in the Session object. A list of shipping options may be kept in a database.

When a control needs to get data from these external sources, it has two options: One is to go to the external source - get each individual item, and dynamically add them to the control - just as we did in module 3, or it can simply use "Data Binding".

Data binding lets us bind a control to an external source . And with a simple call - have the source populate the control. No more looping through the data, to instantiate and add items.

Many controls that contain lists, support data binding. Controls such as: DropDowns, ListBoxes, CheckBoxLists and RadioButtonLists all support data binding. Let's use data binding on a DropDown list.

METHOD OF INSTRUCTION

The course lectures will be given on theory of Interactive web design, the labs on each unit are hand-on activities to help student master ethical hacking technologies. At least one program on each units, midterm on the ninth week, and final. Will test student programming ability.

COURSE OBJECTIVES(3~5 objectives)

1. **ASP.NET Controls**: Button.. Controls let users interact with our web application. We saw some simple controls in the previous module. In this module we'll take a closer look at basic controls available in ASP.NET

2.TextBoxes: Another important - and often used - control is the "TextBox". There are 3 types of TextBoxes in ASP.NET. A single-line TextBox, a multi-line TextBox,and a "password" TextBox. A password TextBox displays stars instead of letters when the user types in their text and is useful for password entries. All three use the <asp:TextBox... server control. The "TextMode" property determines which type of TextBox to use:

3. **Image/Link Buttons:** Although buttons are a common way of initiating actions - you may prefer to use links or even images to perform the same action.

ASP.NET provides us with two controls for this purpose: An ImageButton, turns an image into an action button and an LinkButton which does the same for a link.

ASP.NET also provides a HyperLink control which - at first - seems similar to the above button controls. But it has one fundamental difference. Unlike the button controls, the hyperlink doesn't go back to the server. It immediately re-directs the browser to the new page. So it acts like a pure HTML link. This is useful if you need to jump to another page and you do not need to process any of the controls on your current page.

TEXT AND REQUIRED SUPPLIES:

1. Textbook (required): **Interactive Guide to ASP.NET**. **Joe Grip's**

GRADING CRITERIA:

1. Attendance/Participation 10%
2. Homework/Seatwork 30%

3. Midterm Exam	30%
4. Final Exam	30%
Total	**100%**

CLASS SCHEDULE:

WEEK	DATE	TOPIC/ACTIVITY
01	9/11	Introduction to ASP.NET
02	9/18	HTML(1)
03	9/25	HTML(2)
04	10/02	Your First ASP.NET Program
05	10/09	Event-driven Programming
06	10/16	Virtual Directories
07	10/23	Understanding Controls: Buttons，TextBoxes
08	10/30	Image and Link buttons
09	11/06	**Mid-Term**
10	11/13	Checkboxes
11	11/20	Radio Buttons
12	11/27	DropDown Menus
13	12/04	ListBoxes
14	12/11	Dynamic Content
15	12/18	Panels
16	12/25	Code-Behind
17	01/01	Sessions
18	1/08	**Final Text**

CHENG SHIU UNIVERSITY

403A112, Engineering Mathematics, (3 units)

Course Syllabus-18 weeks

SEMESTER: First
DAY/TIME: M1 8:10~9:00, W3 13:10~15:00
PROFESSOR: Chao, Kuo-Chien
FACULTY: Department of Electronics Engineering
EMAIL: kcchao@csu.edu.tw
CLASS: 2B, Department of Electronics Engineering
NUMBER OF STUDENTS: 45 students

COURSE DESCRIPTION

Engineering mathematics is an important tool for exploring and resolving engineering problems. The objectives of this course are to expose students to the problems frequently encountered in engineering fields, to make students grasp the fundamental capability of engineering mathematics, and to apply mathematics in mechanical engineering fields. The contents of this course are: 1. Analytical solutions of the first, second and higher order of ordinary differential equations; 2. Laplace transform.

METHOD OF INSTRUCTION

This course introduces students of engineering to those areas of mathematics which are important in connection with practical engineering problems. The material in this course is arranged accordingly in four parts: (1) Fist-order, second-order and higher order differential equations. (2) Systems of differential equations. (3) Series solutions of differential equations and special function. (4) Laplace transforms. The teaching methods of this course are adopted as following: 1.Lecturing; 2.Group discussion; and 3. Case study. Moreover, the ability index of each student is required as bellow：(1)Handing in homework on time; (2) Passing the necessary tests; (3) Active learning and questioning.

COURSE OBJECTIVES

1. **Introduction to Differential Equations**：The purpose of this topic is twofold: to introduce the basic terminology of differential equations and to briefly examine how differential equations arise in an attempt to describe or model physical phenomena in mathematical terms.
2. **First-Order Differential Equations**：In this topic we illustrate the three different ways differential equations can be studied: qualitatively, analytically, and numerically.
3. **Higher-Order Differential Equations**：The topic concludes with higher-order linear and nonlinear mathematical models and the first of several methods to be considered on solving systems of linear.
4. **The Laplace Transform**：Solving the differential equation of the circuit could be difficult using the techniques of above topics. The Laplace transform studied in this topic is an invaluable tool that simplifies the solution of problems such as these.

5. Series Solutions of Linear Differential Equations：In this topic, we will see that solutions of the linear second-order equations are defined by infinite series.

TEXT AND REQUIRED SUPPLIES:

1. Textbook: Zill and Wright, Advanced Engineering Mathematics, 2013.
2. Reference book: Kreyszig, Advanced Engineering Mathematics, 2013.

GRADING CRITERIA:

1. Attendance/Participation	20%
2. Homework/Seatwork	20%
3. Midterm Exam	30%
4. Final Exam	30%
Total	**100%**

CLASS SCHEDULE:

WEEK	DATE	TOPIC/ACTIVITY
01	09/9, 09/11	1-1 Definitions and Terminology; 1-2 Initial-Value Problems
02	09/16, 09/18	1-3 Differential Equations as Mathematical Models
03	09/23, 09/25	2-2 Separable Equations; 2-3 Linear Equations
04	09/30, 10/02	2-4 Exact Equations; 2-5 Solutions by Substitutions
05	10/07, 10/09	3-3 Homogeneous Linear Equations with Constant Coefficients
06	10/14, 10/16	3-4 Undetermined Coefficients; 3-5 Variation of Parameters
07	10/21, 10/23	3-6 Cauchy-Euler Equation
08	**10/ 30**	Midterm Exam
09	11/04, 110/6	4-1 Definition of the Laplace Transform
10	11/11, 11/13	4-2 The Inverse Transform and Transforms of Derivatives
11	11/18, 11/20	4-3 Translation Theorems
12	11/25, 11/27	4-4 Additional Operational Properties
13	12/02, 12/04	4-5 The Dirac Delta Function
14	12/09, 12/11	4-6 Systems of Linear Differential Equations
15	12/16, 12/18	5-1 Solutions about Ordinary Points
16	12/23, 12/25	5-2 Solutions about Singular Points
17	12/30, 01/01	5-3 Special Functions
18	**01/ 08**	Final Exam

CHENG SHIU UNIVERSITY

432A091 3D Animation Manufacturing (3 units)

Course Syllabus-18 weeks

SEMESTER: First
DAY/TIME: M2M3M4 9:00~12:00
PROFESSOR: Wu, Chia-Lin
FACULTY: Department of Digital Multimedia Design
EMAIL: maxwu@mail.csu.edu.tw
CLASS: 二甲, Department of Digital Multimedia Design
NUMBER OF STUDENTS: 60 students

COURSE DESCRIPTION

This course introduces students to all the major features of Maya: modeling, animation, texture, lighting, rendering, and popular workflow. Concepts are quickly reviewed and explained and then demonstrated using Maya. Students will gain proficiency by following class examples as well as creating projects and exercises.

METHOD OF INSTRUCTION

The coursework is designed to make sure the student is exposed to all relevant aspects of CG creation with Maya with an eye toward giving the student a base foundation from which to explore and expand. As such, the course will be flexible to the needs and pace of the class itself, and will use the following weekly schedule as a basis only. Therefore, it is of the utmost importance to keep pace as best as possible and not allow weekly assignments to accumulate over time.

Personally, I believe education is a highly flexible matter, and I intend on reading the capability of the class to continually adjust the needs and goals of the course accordingly over time. The final intention is to leave the student with a general foundation of all aspects of production in Maya as well as deeper coverage of the most important needs of CG production workflow: lighting, rendering, and integration.

The course will aim to teach such concepts and practicalities of workflow in each lecture, and will put the onus on the student to practice with Maya in lab time as well personal time. Weekly exercises emphasizing design and production technique will force the student to discover Maya. Be prepared to work outside of class to explore. I simply cannot show you how Maya works; it must be self-discovered, as there are tons of different workflows that can accomplish the same goal. It's aggravating at times, but it's the best way to learn.

COURSE OBJECTIVES(3~5 objectives)

1. Objective 1 : Theory and Practical Training in Modeling
2. Objective 2 : Theory and Practical Training in Animation
3. Objective 3 : Theory and Practical Training in Rendering
4. Objective 4 : Workflow in 3D Animation Design
5. Objective 5 : The ways to self-discovered knowledge in Maya

TEXT AND REQUIRED SUPPLIES:

1. Textbook : Official Autodesk Maya Training Documents from http://www.autodesk.com
2. Supplies and/or tools: None

GRADING CRITERIA:

1. Attendance/Participation	20%
2. Homework/Seatwork	20%
3. Project	20%
4. Midterm Exam	20%
5. Final Exam	20%
Total	**100%**

CLASS SCHEDULE:

WEEK	DATE	TOPIC/ACTIVITY
01	9/9	Introduction to 3D Animation
02	9/16	Maya Basics
03	9/23	Polygon Modeling (I)
04	9/30	Polygonal Modeling (II)
05	10/7	NURBS Modeling (I)
06	10/14	NURBS Modeling (II)
07	10/21	Subdivision Surface
08	**10/28**	Midterm
09	11/4	Animation (I)
10	11/11	Animation (II)
11	11/18	Character Control (I)
12	11/25	Character Control (II)
13	12/2	Texturing (I)
14	12/9	Texturing (II)
15	12/16	Rendering (I)
16	12/23	Rendering (II)
17	12/30	Practical in 3D Animation Design
18	**1/6**	Final Term

CHENG SHIU UNIVERSITY

M0D8551 Linear System Theory and Application (3 credits)
Course Syllabus-18 weeks

SEMESTER: First
DAY/TIME: Monday A-C,6:40-21:20 p.m.
PROFESSOR: Yun-Ping Sun (孫允平)
FACULTY: Department of Mechanical Engineering
EMAIL: ypsun@csu.edu.tw
CLASS: 1A(班級), Institute of Mectronic Engineering
NUMBER OF STUDENTS: 10 students

COURSE DESCRIPTION

This course deals with mathematical modeling and response analyses of dynamic systems that is required in most mechanical and other engineering curricula. This course is suitable for graduate level students and presents a comprehensive treatment of modeling and analyses of dynamic systems and an introduction to control theory.

METHOD OF INSTRUCTION

The activities in this course includes lecture, paper reading and group discussion, hands-on exercise, quizzes, and mid-term and final exams.

COURSE OBJECTIVES(3~5 objectives)

1. Objective 1: To understand what is a control system
2. Objective 2: To know how to analyze the response of dynamic system
3. Objective 3: To know how to design a feedback control system to meet stability and performance requirements
4. Objective 4: To know how to use the computer aided software engineering tool - MATLAB

TEXT AND REQUIRED SUPPLIES:

1. Textbook (required): Control Theory – A Guided Tour, 3rd Ed., J. R. Leigh, The Institution of Engineering and Technology, 2012.
2. Textbook (supplement): Introduction to MATLAB 7 for Engineers, William J. Palm III, McGraw-Hill, 2005.

GRADING CRITERIA:

1. Attendance/Participation	25%
2. Hand-on exercise/Homework	25%
3. Midterm Exam	25%
4. Final Exam	25%
Total	**100%**

CLASS SCHEDULE:

WEEK	DATE	TOPIC/ACTIVITY
01	Sep 9	Control concepts
02	Sep 16	MATLAB: An Overview of MATLAB
03	Sep 23	Control design ideas
04	Sep 30	MATLAB: Array and Matrix
05	Oct 7	Synthesis of automatic feedback control loops
06	Oct 14	MATLAB: Functions and Files
07	Oct 21	How the Laplace transform greatly simplifies system representation and manipulation
08	Oct 28	MATLAB: Programming with MATLAB
09	Nov 4	Frequency response methods
10	Nov 11	MATLAB: Plotting and Model Building
11	Nov 18	Mathematical modelling
12	Nov 25	MATLAB: Linear Algebraic Equations
13	Dec 2	Limits of performance
14	Dec 9	MATLAB: Probabilities, statistics, and interpolation
15	Dec 16	Linearization
16	Dec 23	MATLAB: Differential Equations
17	Dec 30	Discrete time and computer control
18	Jan 6	Final Exam