CHENG SHIU UNIVERSITY
D0B8641 Information and Network Security Special Topics (3 units)
Course Syllabus-18 weeks

SEMESTER: First
DAY/TIME: S6S7S8 15:10~18:00
PROFESSOR: Dr. Wei-ming Ma
FACULTY: Department of Information Management
EMAIL: wma@csu.edu.tw
CLASS: 1 Master (班級), Department of Information Management
NUMBER OF STUDENTS: 15 students

COURSE DESCRIPTION

Information security provides a comprehensive ethical hacking and network security management 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 modules, midterm on the ninth week, and final. Students are required to read material posted on the ilms.csu.edu.tw.

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.
4. Objective 4 to help student master network and information security management.

TEXT AND REQUIRED SUPPLIES:

1. Textbook (required): Certification of Ethetic Hacker, Version 8, EC-Council IT Security Courses Certification Training materials.
2. Textbook (Option): Network Security Essentials, Stallings William, Baker & Taylor Books, 2013.
3. Supplies and/or tools: Software and Handout edited 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	2/25	Introduction to Ethical Hacking and information security management
02	3/04	Footprinting and Reconnaissance
03	3/11	Scanning Networks
04	3/18	Enumeration
05	3/25	System Hacking
06	4/01	Trojans and Backdoors
07	4/08	Viruses and Worms
08	4/15	Sniffers
09	4/22	Social Engineering
10	4/29	Midterm
11	5/06	Denial-of-Service
12	5/13	Session Hijacking
13	5/20	Hacking Webservers
14	5/27	Hacking Web Application
15	6/03	SQL Injection and Case study for information security management
16	6/10	Hacking Wireless Network
17	6/17	Evading IDS, Firewalls and Honeypots
18	6/24	Final

CHENG SHIU UNIVERSITY
M0G8311
Entrepreneurship and Innovation Management (3 units)
Course Syllabus-18 weeks

SEMESTER: Second
DAY/TIME: To be arranged 9:00~12:00
PROFESSOR: Fu-Sheng Tsai
FACULTY: Department of Business Administration
EMAIL: tsaifs@csu.edu.tw
CLASS: MBA-1, Department of Business Administration
NUMBER OF STUDENTS: 10 students

COURSE DESCRIPTION

The course requires students to apply the concepts, principles, frameworks cases and tools of Entrepreneurship and Innovation 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 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 Entrepreneurship and Innovation
2. Improving students' critical thinking ability
3. Improving students' presentation skills

TEXT AND REQUIRED SUPPLIES:

1. Textbook (required): Birley, S. (2010) Entrepreneurship
2. Textbook (supplement): Will print each week
3. Supplies and/or tools:NA

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	As noted above.
2		Ch. 1	
3		Ch. 2	
4		Ch. 3	
5		Ch. 4	
6		Ch. 5	
7		Ch. 6	
8		Ch. 7	
9		Mid-term Problem-solving exercise- Part I	
10		Ch. 8	
11		Ch. 9	
12		Ch. 10	
13		Ch. 11	
14		Case 1	
15		Case 2	
16		Case 3	
17		Case 14	
18		Final Exam	

CHENG SHIU UNIVERSITY
403A112, Engineering Mathematics, (3 units)
Course Syllabus-18 weeks

SEMESTER: Second
DAY/TIME: T1T2 8:10~10:00, W1 08:10~09:00
PROFESSOR: Lu, Chia-Hung
FACULTY: Department of Electronics Engineering
EMAIL: rockylu@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. Vectors; 2. Matrices and 3.Vector Calculus 4. Introduction of Fourier Transforms

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) **Vectors in 2-Space**, Vectors in 3-Space. (2) Dot Product and Cross Product follow by Lines and Planes in 3-Space. (3) Matrix Algebra and Systems of Linear Algebra Equations. (4) The Eigenvalue Problem and Power of Matrices follow by Orthogonal Matrices. (5) The Introduction of Fourier 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 Vectors and** Matrix ：The purpose of this course is to introduce the basic terminology of **Vectors** / Matrix.
2. **Briefly examine how Vectors /** Matrix arise in an attempt to describe or model physical phenomena in mathematical terms.
3. **Vector Calculus:**In this topic we illustrate Gradient, divergence and curl, vector identities, directional derivatives, line, surface and volume integrals, Stokes, Gauss and Green's theorems (without proofs) applications.
4. **Transform Theory:** introduction of Fourier transform, Laplace transform, Z-transform.

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	02/25, 02/26	7.1 Vectors in 2-Space and 7.2 Vectors in 3-Space
02	03/04, 03/05	7.3 Dot Product
03	03/11, 03/12	7.4 Cross Product
04	03/18, 03/19	7.5 Lines and Planes in 3-Space
05	03/25, 03/26	7.6 Vector Spaces
06	04/01, 04/02	7.7 Gram-Schmidt Orthogonalization Process
07	04/08, 04/09	8.1 Matrix Algebra
08	04/15, 04/16	8.2 Systems of Linear Algebra Equations
09	**04/ 21**	Midterm Exam
10	04/29, 04/30	8.3 Rank of a Matrix and 8.4 Determinants
11	05/06, 05/07	8.5 Properties of Determinants and 8.6 Inverse of a Matrix
12	05/13, 05/14	8.7 Cramer's Rule
13	05/20, 05/21	8.8 The Eigenvalue Problem
14	05/27, 05/28	Vector Calculus I
15	06/03, 06/04	Vector Calculus II
16	06/10, 06/11	Integral Transform Method I
17	06/17, 06/18	Integral Transform Method II
18	**06/ 24**	Final Exam

CHENG SHIU UNIVERSITY
40IN042　Principle and Practice of Computer Networks Ⅱ (2 units)
Course Syllabus-18 weeks

SEMESTER: Second
DAY/TIME: W5W6W7 12:10~15:00
PROFESSOR: Long-Bing Hsieh
FACULTY: Department of Computer Science and Information Engineering
EMAIL: lbhsieh@csu.edu.tw
CLASS: 2B, Department of Computer Science and Information Engineering
NUMBER OF STUDENTS: 60 students

COURSE DESCRIPTION
- This course introduces the architecture, structure, functions, components, and models of the Internet and other computer networks
- Emphasize critical thinking, problem solving, collaboration, and the practical application of skills

METHOD OF INSTRUCTION
In-class Lecture; hands-on Labs; Demonstration and Simulation

COURSE OBJECTIVES(3~5 objectives)
1. Understand the nature and roles of protocols and services at the application, network, data link, and physical layers
2. Understand the principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations
3. Understand the architecture, components, and operation of routers, and the principles of routing and routing protocols

TEXT AND REQUIRED SUPPLIES:
1. CCNA Exploration –　by Cisco Learning Network
2. Packet Tracer -- Networking technology simulation software by Cisco

GRADING CRITERIA:
1. Attendance/Participation	5%
2. Homework/Seatwork	10%
3. Quiz	15%
4. Project	10%
5. Midterm Exam	30%
6. Final Exam	30%
Total	**100%**

CLASS SCHEDULE:

WEEK	DATE	TOPIC/ACTIVITY
01	2/26	Living in a NetworkCenter World
02	3/5	Communicating over the Network
03	3/12	Application layer functionality and Protocols
04	3/19	OSI Transport Layer
05	3/26	OSI Network Layer
06	4/2	Addressing the Network-IPv4
07	4/9	Data Link Layer
08	4/16	OSI Physical Layer
09	4/23	Midterm
10	4/40	Ethernet
11	5/7	Introduction to Routing and Packet Forwarding
12	5/14	Static Routing
13	5/21	Overview Routing Protocol Concepts and Dynamic Routing Protocols
14	5/28	Wireless Technologies
15	6/4	Configuring a Wireless Router
16	6/11	Network Security
17	6/18	Case Study
18	6/25	Final Examination

CHENG SHIU UNIVERSITY
409E012 Operations Management (3 units)
Course Syllabus-18 weeks

SEMESTER: Second
DAY/TIME: F3F4F5   10:10~13:00
PROFESSOR: Cheng, Shuenn-Ren
FACULTY: Department of Business Administration
EMAIL: krystl0926@gmail.com
CLASS: 2B, Department of Business Administration
NUMBER OF STUDENTS: 59 students

COURSE DESCRIPTION

This course provides concepts, techniques and tools to design, analyze and improve operational capabilities of an organization. The course covers a broad range of application domains and industries. The topics covered include: process analysis and innovation, capacity analysis, inventory management, production control, supply chain design, coordination, and sustainability, operational risk, quality management, revenue management and pricing.

METHOD OF INSTRUCTION

In-class Lecture, Exercises

COURSE OBJECTIVES (3~5 objectives)

1. Understanding the production and operations management function in any organization.
2. Understand the importance of productivity and competitiveness to both organizations and nations.
3. To understand the importance of an effective production and operations strategy to an organization.
4. To understand the various production and operations design decisions and how they relate to the overall strategies of organizations.
5. To understand the importance of product and service design decisions and its impact other design decisions and operations.

TEXT AND REQUIRED SUPPLIES:

Operations Management: Processes and Supply Chains 10th Edition
ISBN-13: 978-0-273-76683-4

GRADING CRITERIA:

1. Attendance	10%
2. Exams	30%
3. Report	30%
4. Exercise/Homework	30%
Total	**100%**

CLASS SCHEDULE:

WEEK	DATE	TOPIC/ACTIVITY
01	2/25	Introduction
02	3/7	Using Operations to Compete
03	3/14	Decision Making Models
04	3/21	Managing Effective Projects
05	3/28	Developing a Process Strategy
06	4/4	Analyzing Processes
07	4/11	Simulation Models
08	4/18	Review for Midterm
09	4/25	Midterm
10	5/2	Managing Quality
11	5/9	Planning Capacity
12	5/16	Waiting Line Models
13	5/23	Managing Process Constraints
14	5/30	Designing Lean Systems
15	6/6	Designing Effective Supply Chains
16	6/13	Integrating the Supply Chain
17	6/20	Final Report
18	6/27	Final Report

CHENG SHIU UNIVERSITY
(40IN871) Advanced IC Design (3 units)
Course Syllabus-18 weeks

SEMESTER: Second
DAY/TIME: F2F3F4 9:00~12:00
PROFESSOR: Tzung-Je Lee
FACULTY: Department of Computer Science and Information Engineering
EMAIL: tjlee@csu.edu.tw
CLASS: 4A, Bachelor of Department of Computer Science and Information Engineering
NUMBER OF STUDENTS: 30 students

COURSE DESCRIPTION

This course includes the analog model of MOS transistors, amplifiers, frequency compensation, current mirrors, current reference, voltage reference, two-stage OTA, folded-cascoded OTA, and basic power management IC design examples. This course introduces you to the basic theory analysis and focuses on the labs practice. Let student understand skills of IC design by practicing these labs. Finally, students are recommended to design a analog circuit project and give a presentation.

METHOD OF INSTRUCTION

The course is introduced with lecture and lab. There are 10 homeworks for the student to be familiar with the Full-custom IC design procedure and corresponding EDA tools, e.g., Cadence Virtuso, Analog Artist, Synopsys Hspice, Laker and Mentor Calibre. The homeworks are requested to be hand-in in time. Late submission results in the discounting of the grades. There are two exams in the semester. There is a project announced on the 10th week. The student needs to accomplish the project and hand in a corresponding report due on the end of the semester.

COURSE OBJECTIVES(3~5 objectives)

1. Let the student use and familiarize the EDA tools for analog IC.
2. Let the student understand the key analog IC components.
3. Give the student an understanding of analog IC design and implementation.
4. To prepare the student to be an entry-level industrial Full-custom IC designer.

TEXT AND REQUIRED SUPPLIES:

1. Textbook (required): R. J. Baker, H. W. Li, and D. E. Boyce, CMOS circuit design, layout, and simulation, 2nd Ed., New York: Wiley-Interscien (Free electric version is available on the official web site now.)
2. Textbook (supplement): M. C. W. Sansen, Analog design essentials, Springer, 2006.
3. Supplies and/or tools: Lectures and labs slides.

GRADING CRITERIA:

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

CLASS SCHEDULE:

WEEK	DATE	TOPIC/ACTIVITY
01	2/28	228 Memorial Day
02	3/07	Analog IC applications and products introductions
03	3/14	Models for digital design – Inverter
04	3/21	Models for digital design – Inverter
05	3/28	Models for analog design – Diode-connected MOS
06	4/04	Children's Day
07	4/11	Amplifier and Bode Plot
08	4/18	Current Mirror
09	**4/25**	**Midterms**
10	5/02	Two-stage OTA (1)
11	5/09	Two-stage OTA (2)
12	5/16	Key components and data Survey
13	5/23	Project design (1)
14	5/30	Project design (2)
15	6/06	Project design (3)
16	6/13	Presenting skills
17	6/20	Presentation Prepare
18	**6/27**	**Final Project Presentations**

CHENG SHIU UNIVERSITY
40P8391, Hospitality English, 2 units
Course Syllabus-14 weeks

SEMESTER: Second
DAY/TIME: M8M9 15:10~17:00
PROFESSOR: Chang, Wei-Hsiung
FACULTY: Department of Tourism & Recreation
EMAIL: hector629@gmail.com
CLASS: 4A, Department of Tourism & Recreation
NUMBER OF STUDENTS: 27 students

COURSE DESCRIPTION

This course is to develop hospitality terms and communication skills for students at workplace. Listening and speaking are to be trained for students in order to cultivate their English proficiency skills as well.

METHOD OF INSTRUCTION
1. **Focused Lecture.**
2. **Group Discussion.**
3. **Role-play.**
4. **Simulated presentation/Dialogue practice.**

COURSE OBJECTIVES(3~5 objectives)
1. Introduction to the importance of English usage in hospitality industry.
2. Terms of common usage in hospitality industry.
3. Hotel English teaching.
4. Food & Beverage English teaching.
5. Drills Practice & Presentation.

TEXT AND REQUIRED SUPPLIES:

Supplementary Handouts / CAI offered.

GRADING CRITERIA:

1. Attendance/Participation	40%
2. Homework	10%
3. Midterm Exam	20%
4. Final Exam	30%
Total	**100%**

CLASS SCHEDULE:

WEEK	DATE	TOPIC/ACTIVITY
01	2/24	Introduction to course objectives
02	3/3	I work at a Hotel
03	3/10	I work at a Hotel
04	3/17	How can I help you?
05	3/24	How can I help you?
06	3/31	It's on the second floor
07	4/7	It's on the second floor
08	4/15	May I take a message?
09	4/21	Midterm Exam
10	4/28	May I take a message?
11	5/5	May I take your order?
12	5/12	May I take your order?
13	5/19	Role-play
14	5/26	Role-play/Final
15		
16		
17		
18		

CHENG SHIU UNIVERSITY
【M0B2101】【Seminar II】 【2 units】
Course Syllabus-18 weeks

SEMESTER: 102, Second
DAY/TIME: W6W7 13:10~15:00
PROFESSOR: Yeong-Cheng Pao
FACULTY: Department of Information Management.
EMAIL: ycliou@csu.edu.tw
CLASS: 1A, Institute of Information Management.
NUMBER OF STUDENTS: 9 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 learning with innovative tools
2. Way to teach courses and through practical examples to explain and discuss
3. Through the actual writing and presentation students are family with the skill of scientific writing and group learning
4. Though the lecture of experts in academic students can test what they learn

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): Ted Website

GRADING CRITERIA:

1. Attendance/Participation	20%	
2. Homework/Seatwork	40%	
3. Project	0%	
4. Midterm Exam	10%	
5. Final Exam	30%	
Total	**100%**	

CLASS SCHEDULE:

WEEK	DATE	TOPIC/ACTIVITY
01	09/11	What thesis is and types of thesis
02	09/18	How to find topics and 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
432A121 Multimedia Application Seminar (3 units)
Course Syllabus-18 weeks

SEMESTER: Second
DAY/TIME: M6M7M8 13:10~16:00
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 multimedia application seminar. Concepts are quickly reviewed and explained and then demonstrated using 3D animation design software: 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 computer graphic 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. The capability of the class will be continually adjusted to match 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 multimedia animation design as well as deeper coverage of the most important needs of computer graphic production workflow.

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.

COURSE OBJECTIVES(3~5 objectives)

1. Objective 1 : Theory and Practical Training in multimedia design.
2. Objective 2 : Theory and Practical Training in Animation design.
3. Objective 3 : Theory and Practical Training in integrated project design.
4. Objective 5 : The ways to self-discovered knowledge in multimedia project design.

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	2/24	Introduction to multimedia design seminar
02	3/3	Advanced Maya Polygonal Modeling (I)
03	3/10	Advanced Maya Polygonal Modeling (II)
04	3/17	Advanced Maya NURBS Modeling (I)
05	3/24	Advanced Maya NURBS Modeling (II)
06	3/31	Advanced Texturing
07	4/7	Advanced Lighting
08	4/14	Midterm
09	4/21	Human IK
10	4/28	Dynamics (I)
11	5/5	Dynamics (II)
12	5/12	Painting
13	5/19	Expressions
14	5/26	Fluid Effects
15	6/2	Fur
16	6/9	Multimedia Project Management
17	6/16	Practical in Multimedia Project Management
18	6/23	Final Term

CHENG SHIU UNIVERSITY
70B8101 Database Programming Design (3 units 學分)
Course Syllabus-18 weeks

SEMESTER: Second
DAY/TIME: S5S63S7 11:40~15:05
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: 54 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.

The .NET Framework gives us data base access via ADO.NET. ADO.NET consists of a set of components and classes that perform data access and retrieval. There are 2 core components - and classes - in ADO.NET. One, for basic database connection and data access, and another - more powerful one - that supports disconnected data access plus access to other data sources such as XML files and even applications - such as Excel.

METHOD OF INSTRUCTION
The course lectures will be given on theory of Data Base Programming 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. **Data Binding**
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.

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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.

2. **The DataGrid**

In many real world ASP.NET applications, it is common to display a table of data. For example an application may display a list of books matching a specific search criteria. Another application may display a list of products that are currently on sale. These tables often need to be created dynamically. ASP.NET provides a couple of controls for creating a dynamic table of data. Amongst these, the DataGrid is by far the most powerful and the most flexible.

The DatagGrid control supports data binding which also makes it extremely easy to use. The most basic DataGrid usage is to connect it to a data source and just display the data in a table. DataGrids are most useful when they display rows of information, often from a data source such as a database. We'll cover database access in the next section.

In our example we bind our DataGrid to an array list of objects in order to mimic the rows in a database table.

First we need to define our objects. Let's build a class named SiteProduct.

3. **Database Access**

The .NET Framework gives us data base access via ADO.NET. ADO.NET consists of a set of components and classes that perform data access and retrieval. There are 2 core components - and classes - in ADO.NET. One, for basic database connection and data access, and another - more powerful one - that supports disconnected data access plus access to other data sources such as XML files and even applications - such as Excel.

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		Web Configure Distribute of Applied Program
02		Cookies、Session Objects
03		ADO.Net Data Base
04		Data Reader
05		Data Set
06		SQL statement、Select
07		SQL statement、Insert、Update、Delete
08		GridView
09		**Mid-Term**
10		DetailsView
11		ListView and DataPager controls
12		CSS Table
13		Frame controls
14		Menu select control
15		TreeView
16		SiteMapPath、Web path controls
17		Case Study
18		**Final Text**

CHENG SHIU UNIVERSITY
40AV461 Multicultural Education（多元文化教育） (2 units)
Course Syllabus-14 weeks

SEMESTER: Second
DAY/TIME: W3W4 10:10~12:00
PROFESSOR: Dr. Mei-Wen Chiu（邱美文）
FACULTY: Department of Early Childhood Care and Education（幼保系）
EMAIL: joychiu@csu.edu.tw
CLASS: 4A, Department of Early Childhood Care and Education
NUMBER OF STUDENTS: 40 students

COURSE DESCRIPTION

This course provides an analysis of principles for diversity education as applied to curriculum and instruction. Designed to increase students' awareness and knowledge of cultural integrity and cultural diversity, this course familiarizes students with school programs, strategies, and materials for developing and implementing a multicultural curriculum.

METHOD OF INSTRUCTION

Paragraph description indicating lecture, lecture/lab, group discussion, or other primary form of instruction; frequency or number of interim exams/quizzes; reading requirements; hands-on activities; field trips -- roughly how the course described in "A" will be presented.

COURSE OBJECTIVES(3~5 objectives)

1. Define multicultural education.
2. Give rationale for incorporating a multicultural perspective into an existing curriculum.
3. List/identify at least ten resources for multicultural education.
4. Understand/teach about various groups within the Taiwan and abroad.
5. Teach effectively in classrooms that are representative of diverse cultures.

TEXT AND REQUIRED SUPPLIES:

1. Banks, J. (1999) Introduction to Multicultural Education. Allyn and Bacon.
2. Allen, McNeill, Schmidt, (1992). Cultural Awareness for Children, Addison Wesley.

GRADING CRITERIA:

1. Attendance/Participation	15%
2. Three Reaction Papers	15%
3. Project	25%
4. Mid-term Exam	10%
5. Final Exam	10%
6. Group Presentation	25%
Total	**100%**

CLASS SCHEDULE:

WEEK	DATE	TOPIC/ACTIVITY
01	2/26	Introduction
02	3/05	Multicultural Education：Perspectives and Theory
03	3/12	Multicultural education and Gender
04	3/19	Multicultural education and Class
05	3/26	Multicultural education and Ethnic Relations
06	4/02	Aboriginal education and Community education
07	4/09	Multicultural education and Special education
08	4/16	Multicultural education and Transnational marriage
09	4/23	Mid-term
10	4/30	Multicultural curriculum planning
11	5/07	Cultural responsive teaching
12	5/14	Multicultural environments plan
13	5/21	Critical and developing trend of Multicultural education
14	5/28	Final

CHENG SHIU UNIVERSITY
40MR032　Furniture Design (2 units)
Course Syllabus-18 weeks

SEMESTER: Second
DAY/TIME:　W3W4 10:00~12:00 am
PROFESSOR: Li-Ling Tsao　曹莉玲
FACULTY: Department of Architecture Design
EMAIL:　t865302t77@yahoo.com.tw
CLASS: 1B, Department of Architecture and Interior Design
NUMBER OF STUDENTS: 45 students
COURSE DESCRIPTION

Introduction to Furniture Design:

Furniture: an intimate object which provides a comfort way of life in our daily activities. The sense of human scale and creative thoughts are prerequisite in making good furniture design works. Understanding the function composition, materials and stylish models are basis in this course.

METHOD OF INSTRUCTION

This course introduces students to the field of furniture design. Through lectures, case studies, home works and sketch exercises. Students develop ideas and apply creative problem-solving skills in their design works through drawings and models.

COURSE OBJECTIVES(3~5 objectives)

Objective 1 : **Introductions of human scales and activities in furniture design.**

Objective 2: **The history of furniture design**

Objective 3 : **Introduction of furniture structures and materials**

Objective 4 : **Innovative and functional concept in furniture design**

Objective 5 : **Practice in furniture sketches and drawings**

TEXT AND REQUIRED SUPPLIES:
1. Textbook (required):家具設計/正文書局 /徐特雄 編著
2. Textbook (supplement):人體尺度與室內空間 /科技圖書/龔錦編著
3. Supplies and/or tools:室內設計製圖實務/新形象出版社/彭維冠 編著

GRADING CRITERIA:

1. Attendance/Participation	10%
2. Homework	70%
3. Exams	20%
Total	**100%**

CLASS SCHEDULE:

WEEK	DATE	TOPIC/ACTIVITY
01	2/26	Introduction
02	3/5	人類活動行為基本尺度認識 Human Scales and Activities in Ergonomics
03	3/12	傢俱的基礎素描練習（一）Sketch of Furniture
04	3/19	傢俱的基礎素描練習（二）Sketch of Furniture
05	3/26	傢俱的基礎素描練習（三）Sketch of Furniture
06	4/2	傢俱的尺度與功能 The Scales and Functions in Furniture Design
07	4/9	傢俱設計的歷史與風格演變（一）History of Furniture Design
08	4/16	傢俱設計的歷史與風格演變（二）History of Furniture Design
09	4/23	作業講評與解說 Mid-term Assignment
10	4/30	傢俱的創意思考與設計（一）Creative Ideas In Furniture Design
11	5/7	傢俱的創意思考與設計（二）Creative Ideas In Furniture Design
12	5/14	室內空間傢俱的配置關係 The Relationship between Furniture and Interior Spaces
13	5/21	室內空間傢俱的配置關係 The Relationship between Furniture and Interior Spaces
14	5/28	傢俱材料與力學結構的關係 The Relationship between Furniture and Interior Spaces
15	6/4	傢俱設計施工圖繪製（一）Drafting Skills in Furniture Design
16	6/11	傢俱設計施工圖繪製（二）Drafting Skills in Furniture Design
17	6/18	傢俱設計施工圖繪製（三）Drafting Skills in Furniture Design
18	6/25	期末作業講評與解說 Final Assignment

CHENG SHIU UNIVERSITY
40E8461 Financial Marketing (2units)
Course Syllabus-14 weeks

SEMESTER: Second
DAY/TIME: Wed. 13:10~15:00
PROFESSOR: Pei-en Lee
FACULTY: Department of Business Administration
EMAIL: plee1@csu.edu.tw
CLASS: 4A, Department of Financial Management
NUMBER OF STUDENTS: 27 students

COURSE DESCRIPTION

This course introduces and describes about professional marketing knowledge and international perspective for financial marketing participants. In addition, this course examines strategies that financial organizations use to communicate with customers and prospects including advertising, personal selling, sales promotion, publicity and other forms of marketing communications. Students will learn how to develop the attractiveness of marketing plans and how to evaluate the effectiveness of programs.

METHOD OF INSTRUCTION

Teaching Method: Classes will be conducted in a seminar mode with student discussion and interaction. There will be one field trip, opportunities for individual participation and team assignments.

Class Requirements: (1) Regular attendance is expected. (2) Show up on time. (3) High standards of writing and speaking are required and should be maintained. (4) Be open and willing to learn. (5) Respect each other. (6) Students are advised to complete their work on time and to plan ahead. (7) Part of your grade will be based on your class participation.

COURSE OBJECTIVES(3~5 objectives)
1. Identify the marketing process and customer needs
2. Identify the characteristics affecting consumer behavior
3. Recognize the importance of target marketing and positioning in the financial services marketing.
4. Identify roles for communications in the marketing mix.

TEXT AND REQUIRED SUPPLIES:
1. Textbook (required): *Financial Services Marketing professional and Managerial Perspectives*, Guang-hua Zeng and Zeng-gan Huang
2. Textbook (supplement): *Principles of Marketing*, Philip Kotler and Gary Armstrong
3. Supplies and/or tools: powerpoint

GRADING CRITERIA:

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

CLASS SCHEDULE:

WEEK	DATE	TOPIC/ACTIVITY
01	02/26	Introduction of Class Syllabus
02	03/05	Chapter 1 Understanding the Marketing Concept
03	03/12	Chapter 2 Analyzing the Financial Marketing Environment and Ethics
04	03/19	Chapter 3 Consumer Markets and Consumer Buyer Behavior
05	03/26	Chapter 4 Understanding and Capturing Customer Value
06	04/02	Chapter 5 Market Segmentation & Market Targeting
07	04/09	Chapter 6 Positioning Strategy & Branding Strategy
08	04/16	Chapter 7 Pricing Strategies
09	04/23	**Midterm**
10	04/30	Chapter 8 Sales Promotion & Marketing Communication
11	05/07	Chapter 9 Marketing Channels
12	05/14	Chapter 10 Advertising
13	05/21	Group Presentation
14	05/28	**Final exam**
15		
16		
17		
18		

CHENG SHIU UNIVERSITY
404D111 Engineering Mechanics: Statics (3 Credit Hours)
Syllabus – Spring Semester

SEMESTER: Spring
DAY/TIME: H2H3 10:10am – 12:00pm; F4 11:10am~12:00pm
PROFESSOR: Chyouhwu B. Huang, Ph.D.
FACULTY: Department of Mechanical Engineering
EMAIL: cbhuang@csu.edu.tw
OFFICE: 15-0704D
TEL: 07-7310606 ext. 3336
CLASS: 1A, Department of Mechanical Engineering
NUMBER OF STUDENTS: 55 students

COURSE DESCRIPTION

The subject of Statics deals with the analysis of forces acting on rigid bodies in static equilibrium covering coplanar and 3 dimensional forces, concurrent and non-concurrent forces, structural Analysis, friction forces. Majority of time will be spent finding resultant forces for a variety of force systems, as well as analyzing forces acting on bodies to find the reacting forces supporting those bodies. Students will develop critical thinking skills necessary to formulate appropriate approaches to problem solutions.

METHOD OF INSTRUCTION

Lecture is given assists with power points slide. No experiment will be involved in this class.

In order to receive credit for your work, all homework, quiz and exam problems must be presented in a clear, organized manner. Solutions must show evidence of work.

Partial credit may be given if the solution is presented in a logical fashion. Each student must submit his/her own assignment; however, students are encouraged to study as a group. All quizzes, the midterm and final exam are to be completed individually. Failure to comply with this requirement will result in a failing grade for the course.

HW Assignments:	Assignments will be announced upon the completion of an object. Late submissions will be penalized -10%/day (excluding weekends) and can be no later than five (5) days late. You must sumbit a hard copy solution and is written on A4 paper to receive credit. You are expected to complete all assignments within the time allotted since the problems contained within the assignments will be closely related to the quiz given that week.
Quizzes:	There will be 2 closed note/book quizzes, each will be held on Friday during the lecture period. The material for each quiz will reflect the homework set "due" on that day. Not taking a quiz will result in a zero (0) if your absence is not supported, No Makeup Tests Will Be Performed unless I am informed in advance.
Midterm:	There will be one "Closed book" midterm exam on the Thursday of midterm exam respectively. For these exams, you may compile and use a standard scientific calculator.
Final Exam:	There will be one "Closed book" midterm exam on the Thursday of final exam respectively. For these exams, you may compile and use a standard scientific calculator.

COURSE OBJECTIVES

Throughout the semester students will develop an understanding of, and demonstrate their proficiency in the following
1. Concepts and principles pertaining to vector mechanics, statics.
2. Moment caused by a force acting on a rigid body
3. Principle of transmissibility and the line of action
4. Moment due to several concurrent forces
5. Force and moment reactions at the supports and connections of a rigid body
6. Force in members of a truss using the Method of Joints and the Method of Sections

Upon the completion of this course, student should :
1. Be able to analyze and explain Components of a force and the resultant force for a systems of forces
2. Be able to apply different forces and work force problems including the fundamental force of gravity and Newton's laws

TEXT AND REQUIRED SUPPLIES:
Textbook (required): Engineering Mechanics: Statics 13 ed. by R.C. Hibbeler

GRADING CRITERIA:
Methods of evaluation：

Homework	:	20%
Quiz	:	20%
Midterm	:	30%
Final exam.	:	30%
Total	:	100%

CLASS SCHEDULE:

WEEK	DATE	TOPIC/ACTIVITY
01	2/27/2014	General Principles: Mechanics; Fundamental Concepts; Units of Measurement; The International System of Units; Numerical Calculations; General Procedure for Analysis
02	3/6/2014; 3/7/2014	Forced Vectors: Scalar and Vectors; Vector operations; Vector Addition of Forces
03	3/13/2014; 3/14/2014	Forced Vectors: Addition of a system of Coplanar Forces; Cartesian Vectors; Addition of Cartesian Vectors
04	3/20/2014; 3/21/2014	Forced Vectors: Position Vectors; Force Vector Directed Along a Line; Dot Product; Quiz (Friday)
05	3/27/2014; 3/28/2014	Equilibrium of a Particle: Condition for the Equilibrium of a particle; the Free-Body Diagram; Coplanar Force Systems
06	4/3/2014	Equilibrium of a Particle: Coplanar Force Systems; Three Dimensional Force Systems
07	4/10/2014; 4/11/2014	Force System Resultants: Moment of a Force – Scalar Formulation; Cross Product; Moment of a Force – Vector Formulations
08	4/17/2014; 4/18/2014	Force System Resultants: Principle of Moments; Moment of a Force about a Specified Axis; Moment of a Couple
09	4/24/2014	Midterm Examination
10	5/2/2014	Force System Resultants: Simplification of a Force and Couple

		System; Further Simplification of a Force and Couple System; Reduction of a Simple Distributed Loading
11	5/8/2014; 5/9/2014	Equilibrium of a Rigid Body: Conditions for Rigid-Body Equilibrium; Free-Body Diagrams; Equations of Equilibrium
12	5/15/2014; 5/16/2014	Equilibrium of a Rigid Body: Two- and Three-force Members; Free-Body Diagrams; Equations of Equilibrium; Constraints and Statical Determinacy
13	5/22/2014; 5/23/2014	Structural Analysis: Simple Trusses; The Method of Joints; Zero-Force members; Quiz (Friday)
14	5/29/2014; 5/30/2014	Structural Analysis: The Method of Sections; Space Trusses; Frames and machines
15	6/5/2014; 6/6/2014	Friction: Characteristics of Dry Friction; problems Involving Dry Friction; Wedges
16	6/12/2014; 6/13/2014	Friction: Frictional Forces on Screws; Frictional Forces on Flat Belts; Frictional Forces on Collar Bearings, Pivot Bearings, and Disks
17	6/19/2014; 6/20/2014	Friction: Frictional Forces on Journal Bearings; Rolling Resistance
18	6/26/2014	Final Examination