University of Macau
Department of Computer and Information Science
CISB453 – Internship III
Syllabus
1st Semester 2014/2015
Part A – Course Outline

Elective course in Computer Science

Course description:

1.5 credits. Internship provides students a professionally-oriented experience in areas relevant to the fields of study and/or career goal. It is a way for students to experience the working world while receiving guidance and feedback from their academic advocates. Internship is approved jobs and must be arranged through the internship coordinator or the department head. Upon completion of the internship, the students must submit a written report for assessment. To receive credits, the student must work with a faculty member and a work supervisor to develop a significant project in Computer Science.

Prerequisite:

- None

Course objectives*:

1. To provide students an opportunity to gain practical on-the-job experience in the computer science career field [a, f, h, i, j]
2. To provide an opportunity for students to further develop their critical thinking, problem-solving, and skills that we believe to be critical to personal growth, and career readiness [b, c, d, e, k, l]
3. To provide an opportunity for students to develop interpersonal skills and leadership ability in an organization and/or industry related to their career aspirations [d, g]

Internship schedule:

Minimum of 75 hours per semester (14 weeks)

Contribution of course to meet the professional component:

This course prepares students with practical on-the-job experience in the computer science career field.

Relationship to CS program objectives and outcomes:

This course primarily contributes to Computer Science program outcomes that develop student abilities to:

(a) An ability to apply knowledge of mathematics, science, and engineering;
(d) An ability to function on multidisciplinary teams;
(g) An ability to communicate effectively;
(k) An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice appropriate to the degree discipline.

The course secondarily contributes to Computer Science program outcomes that develop student abilities to:

(b) An ability to design and conduct experiments, as well as to analyze and interpret data;
(c) An ability to design a system, component, or process to meet desired needs within realistic constraints, such as economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability;
(e) An ability to identify, formulate, and solve engineering problems.
(f) An understanding of professional and ethical responsibility;
(h) The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental and societal context;
(i) An ability to recognize the need for, and to engage in life-long learning;
(j) A knowledge of contemporary issues;

(l) An ability to use the computer/IT tools relevant to the discipline along with an understanding of their processes and limitations.

Relationship to CS program criteria:

Criterion	DS	PF	AL	AR	OS	NC	PL	HC	GV	IS	IM	SP	SE	CN
Scale: 1 (highest) to 4 (lowest)		2	3	4	4	3	3	4		4	2	2	1	

Discrete Structures (DS), Programming Fundamentals (PF), Algorithms and Complexity (AL), Architecture and Organization (AR), Operating Systems (OS), Net-Centric Computing (NC), Programming Languages (PL), Human-Computer Interaction (HC), Graphics and Visual Computing (GV), Intelligent Systems (IS), Information Management (IM), Social and Professional Issues (SP), Software Engineering (SE), Computational Science (CN).

Course coordinator:

Dr. Sam Chao, Assistant Professor of Computer Science

Persons who prepared this description:

Dr. Wong Fai and Dr. Sam Chao, 12 February 2014

Part B General Course Information and Policies

1st Semester 2014/2015

Instructors: Dr. Sam Chao
Office Hour: by appointment
Email: lidiasc@umac.mo
Office: R108
Phone: 8397-8051

Time/Venue: (*to be announced*)

Assessment:
Final assessment will be determined on the basis of log book and assessment of the host.

Grading Distribution:

Percentage Grade	Final Grade	Percentage Grade	Final Grade
100 - 93	A	92 - 88	A–
87 - 83	B+	82 - 78	B
77 - 73	B–	72 - 68	C+
67 - 63	C	62 - 58	C–
57 - 53	D+	52 - 50	D
below 50	F		