

Maharishi University of Management is an Equal Opportunity Institution.

© Maharishi University of Management

®Transcendental Meditation, TM, TM-Sidhi, Science of Creative Intelligence, Maharishi Transcendental Meditation, Maharishi TM-Sidhi, Maharishi Science of Creative Intelligence, Maharishi Vedic Science, Vedic Science, Maharishi Vedic Science and Technology, Consciousness-Based, Maharishi International University, and Maharishi University of Management are registered or common law trademarks licensed to Maharishi Vedic Education Development Corporation and used under sublicense or with permission.

# **Course Overview**

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Week 1	Intro to CS445 Collaborative Git	Collaborative Git	JS Engine and Modern Web Browsers	Introduction to TypeScript and Bundlers	Introduction to TypeScript and Bundlers	[Quiz 1] JavaScript DOM, Selectors, Events, History API, Geolocation API
	Lab 1		Lab 2	Lab 3		Lab 4
Week 2	JavaScript DOM, Selectors, Events, History API, Geolocation API	Asynchronous JavaScript, Event-Loop, Promises	Advanced Promises, Async/Awaits	[Quiz 2] Review	Review	Midterm
	Lab 4	Lab 5	Lab 6			
Week 3	HTTP Requests, Ajax, Fetch, JSON	HTTP Requests, Ajax, Fetch, JSON	Reactive Programming, RxJS Observables, and Operators	Design Patterns 1: Module, Prototype, Singleton, Observer	Design Patterns 2: Façade, Factory, Decorator, Proxy, Strategy, Memoization	[Quiz 3] Review
	Lab 7		Lab 8	Lab 9	Lab 10	
Week 4	Final Project	Final Project	Final Project Due Date	Final Exam		

## **COURSE GOAL**

Mastering Modern Asynchronous Programming Techniques as a Foundation to Building Single Page Applications.

## **Evaluation Criteria**

Midterm Exam		
<ul> <li>Will not provide extra exam to recover your grade</li> </ul>		
On campus student MUST take paper-based exam		
Final Exam		
<ul> <li>Will not provide extra exam to recover your grade</li> </ul>		
<ul> <li>On campus student MUST take paper-based exam</li> </ul>		
Homework		
<ul> <li>For any late submission which means trying to submit after due date, automatically lose half credit for the lab regardless of correctness of the answers, e.g. 5 out of 10. The late submission is talking about due date on Sakai, doesn't care when you upload to github. Late submission is determined based on Sakai.</li> <li>Try to submit after release the grade, get 0 point.</li> <li>The due date of each lab is listed on Sakai Tests&amp;Quizzes, you MUST take care of your submission by yourself.</li> <li>Copy other students' answers will cause 0 point. No solutions for questions will also resolve 0 point.</li> </ul>		
<ul> <li>Quizzes – All quizzes are on Sakai using ProctorTrack</li> <li>If you're late or didn't do the quiz, no extra quiz will be provided, you'll get 0 for the quiz.</li> <li>The quiz's open datetime and end datetime will be sent to your MIU email account. you MUST take care of it by yourself.</li> <li>If the quiz is done on Sakai, you MUST remember to save your quiz solutions and not wait till the last minute to submit. If your solution is not saved, your quiz credit is 0.</li> </ul>		
Project – single person project		

#### Please find CS445 grading scale:

A+ 97 - 100

A 92 - 96

A- 88 - 91

B+ 84 - 87

B 79 - 83

B- 75 - 78

C+ 71 - 74

C 66-70

C- 62-65

#### **Contact Info**

Rujuan Xing

Assistant Professor of Computer Science

Email: rxing@miu.edu

#### **Class Attendance**

Attendance at all classes is required, because all elements of class — lectures, questions and answers, discussions, laboratory work — contribute to the learning process. Absences are usually excused only if you are sick in bed or have a family emergency.

If you must miss a class, please let your instructor know ahead of time. Call, send an email, or send a note with a friend. There is no such thing as a "personal day." If you have personal business to take care of, please schedule it for after class or during the days between blocks. At the same time, it may occasionally be necessary for you to miss a class (or part of a class) for some reason other than illness or family emergency. Please speak with the instructor beforehand, who will be open to considering your needs.

The first lesson of each course is the most important. Students are expected to be present from the first lesson onward. Any student not present on the first morning (except for such compelling reasons as illness or family emergency) may be asked to withdraw from the course. Unexcused absences may result in the student receiving a grade of NC (No Credit) for the whole course.

### **PUNCTUALITY**

Punctuality is expected and required in the professional world. People commonly lose their jobs for being late — especially new college graduates unfamiliar with professional expectations. Colleges and universities have come under criticism for not properly preparing students in these values.

Therefore we place a similarly high value on arriving on time for every class session. If students are late, they disrupt the learning environment and may miss the wholeness of the lesson. Coming late is unprofessional and shows lack of courtesy to the instructor and to fellow students.

Thus the faculty request that students arrive a couple minutes early, so everyone is seated and settled when the class begins. *Well begun is half done*.

Punctuality also extends to returning from the class break in a timely fashion (as announced by the professor at the beginning of the break). The instructor should not need to go out and round up students.

If you need to be late to class for some reason beyond your control (a dentist appointment, for example), please arrange that with me ahead of time.

### **CLASS PARTICIPATION**

American companies (and universities) expect employees (and students) to be active participants in discussions about projects and plans. This is in contrast to many other cultures in Asia and Africa that many of our students are from. Our classrooms are a great environment to get used to being a more active participant. Being an active participant means volunteering information and asking questions from your side—i.e., raising your hand to make a comment or ask a question without being prompted by the professor. This should always be done in a polite manner, but it is not sufficient to sit silently and passively unless called upon.

#### **DRESS**

#### **LEADERSHIP** — Classic professional [10]

For men, suits, jackets, dress shirts, ties, dress pants, dress shoes with socks. For ladies, suits, career dresses or blouses and skirts (knee length or longer) with jackets and cardigans, pant suits, dress shoes.

**PROFESSIONAL** — Typical of what is expected for most professionals in industry. [9]

For men, dress shirts with collars and sleeves, tucked in and buttoned, dress pants, clean nice shoes with socks. For ladies, sweaters and skirts (knee length or longer), career slacks, dresses (knee length or longer), coordinated outfits.

**OFFICE CASUAL** -- Less professional but acceptable for class [8]

Knit shirts with collar, casual button shirts with collar, casual pants (blue jeans or other colored denim jeans of the blue-jean style are not acceptable).

**LOUNGE CASUAL** – Barely acceptable for class, not acceptable in most professional settings [7]

Knit shirts with no collar, sweatshirts, denim jacket, wrinkled or ill-fitting clothes, untucked shirts unless they are designed to be worn untucked

**BEACH (INAPPROPRIATE)** — Students will be asked to change for class or dining at lunchtime. [0]

For everyone, jeans (blue, black, green, etc),, T-shirts, shorts, asana clothes, flip-flops; torn, dirty, or sloppy clothes. For men, sleeveless shirts or improperly fitting clothes. For ladies, camisole or spaghetti strap tops, skirts or dresses above the knee or with high slits. very tight or low-cut apparel, uncovered midriffs. Hats should not be worn in class or any professional setting.