



COURSE SYLLABUS

Course Number/Section/Name: CIDM 4382/01/Back End Web Development

Semester/Year: Fall 2019

Professor: Dr. Jeffry Babb

Class Days/Times/Location or Other Format: Monday and Wednesday, 11:00 AM to 12:15

Office Location: CC208H

Office Hours: Monday and Wednesday, 3:00 PM to 5:00 PM; Tuesday, 12:00 to 5:00 PM

Office Phone: 806-651-2440

Email: jbabb@wtamu.edu

Social Media: Keep up with the latest happenings of [your COB](#) on [Facebook](#) and [Twitter](#), connect with us on [LinkedIn](#), and check out COB videos on [YouTube](#).

Other: Expect to receive instructions for a Slack and/or Discord server in Blackboard

Terms of Use

A student's continued enrollment in this course signifies acknowledgment of and agreement with the statements, disclaimers, policies, and procedures outlined within this syllabus and elsewhere in the WTClass environment. *This Syllabus is a dynamic document. Elements of the course structure (e.g., dates and topics covered, but not policies) may be changed at the discretion of the professor.*

WTAMU Paul and Virginia Engler College of Business Mission Statement

The mission of the Paul and Virginia Engler College of Business is to provide high quality undergraduate and graduate business education with a global perspective and ethical awareness. We accomplish this through emphasis on excellence in teaching, which is strengthened by faculty scholarship and supported by professional service.

Learning Objectives of the WTAMU Paul and Virginia Engler College of Business Programs

The Paul and Virginia Engler College of Business (COB) at West Texas A&M University (WTAMU) seeks to prepare students in the Bachelor of Business Administration (BBA), Master of Business Administration (MBA), Master of Professional Accounting (MPA), and the Master of Science, Finance and Economics (MSFE) degree programs for careers in business and to foster their professional growth and advancement via key learning goals and objectives.

The learning objectives of the Paul and Virginia Engler College of Business are as follows:

- Leadership
- Communication
- Critical Thinking
- Business Integration
- Core Business Knowledge
- Global Business Environment
- Business Ethics and Corporate Governance

Course Description

Prerequisite: CIDM 2315, CIDM 3350. Design and build web-based applications in a database environment. Students will also learn how to configure http servers, dynamic web content processor languages, database



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interfaces and in-depth SQL and database management in an open source environment. Design and build web-based applications in a database environment. Students will also learn how to configure http servers, dynamic web content processor languages, database interfaces and in-depth SQL and database management in an open source environment. The course is extended using contemporary JavaScript-based approaches that are consistent with emerging trends. Extended topics include: Node.js (server-side JavaScript), templating, Node.js web frameworks with Connect and Express, NoSQL data repositories such as MongoDB, and client-side MVC frameworks such as AngularJS. The course represents the very cutting edge in best practices for building contemporary and data-driven websites with a full end-to-end JavaScript stack. Also explores contemporary document-based NOSQL data stores.

Course Objectives

- Students will gain hands-on experience with using JavaScript, end-to-end, with appropriate contemporary technologies.
- Students will develop web applications using client-side JavaScript libraries for adaptive/responsive presentation.
- Students will develop web applications using client-side MVC frameworks
- Students will utilize SQL, File-System, and NoSQL-based data stores for their web applications.
- Students will develop web applications using JavaScript server-side frameworks and core application engines.
- Students will learn to Unit Test their applications using tools appropriate to the languages and technologies employed.
- Students will learn about deployment, maintenance, and uptime strategies for their web applications.

Map from COB Learning Objectives to Specific Course Objectives

The Paul and Virginia Engler College of Business Learning Goals are related to the course objectives for CIDM4382 are as follows:

Goal 2: Critical Thinking: Graduates will be critical thinkers.

- Students will demonstrate their competencies in critical thinking via The development of a full-stack Javascript web application.

Course Materials (Text, calculator, etc.)

Texts

Title: Getting MEAN with Mongo, Express, Angular, and Node, 2nd Edition

Authors: Simon Holmes and Cliver Harber

ISBN: 978-1617294754

Publisher: Manning

Software

We can achieve everything with free and open source software save for your hosting. I will also demonstrate the utilization of a VPS and will require the use of a VPS, which will cost money (~\$5 per month), near the end of the course.



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Course Grading Policies

I am using a percentage-weighted system for grading. The general categories of work you will engage in to earn these points are as follows:

- **Assignments:** 33.3%
- **Guided Group Project:** 33.3%
- **Individual Final Project:** 33.3%

Late work accepted on a case basis, you will have points reduced according to the degree to which your work is late. Exceptions would be afforded to late work that was coordinated as such with the instructor.

Course Assignment, Examination, and or Project Policies

Your final letter grade will be assessed based on the following point accumulations:

- **Letter grade of "A":** 90% or higher
- **Letter grade of "B":** 80% up to, but not including 90%
- **Letter grade of "C":** 70% up to, but not including 80%
- **Letter grade of "D":** 60% up to, but not including 70%
- **Letter grade of "F":** 59% or lower

Course Topics - Tentative Calendar of Readings, Topics, and Due Dates

Week	Topic/Reading	Assignments/Notes
00 – 08/25 – 08/31	Chapter 01 Full-stack development	Orientation Evolution; mean.io and mean.js
01 – 09/01 – 09/07	Chapter 02 Mean stack	
02 – 09/08 – 09/14	Chapter 03 Create a Mean stack	
03 – 09/15 – 09/21	Chapter 04 Static site	
04 – 09/22 – 09/28	Chapter 05 Data model with MongoDB and Mongoose	
05 – 09/29 – 10/05	Chapter 06 Write a REST API	
06 – 10/06 – 10/12	Chapter 07 Cosume a REST API	
07 – 10/13 – 10/19	Midterm Evolution 1	In-class work
08 – 10/20 – 10/26	Chapter 08 Angular and TypeScript	
09 – 10/27 – 11/02	Chapter 08 Angular and TypeScript	
10 – 11/03 – 11/09	Midterm Evolution 2	In-class work
11 – 11/10 – 11/16	Chapter 09 SPA Foundations	
12 – 11/17 – 11/23	Chapter 10 Next-Level SPA	
13 – 11/24 – 11/30	Chapter 11 Authentication	
14 – 12/01 – 12/07	Chapter 12 Using Authentication APIs	
15 – 12/08 – 12/14	Final Exam	

Additional Course Policies



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Slack and Online Presence: I will provide and maintain a slack and/or Discord server for the course (addresses forthcoming). There are times where your participation will be expected

WTAMU Paul and Virginia Engler COB Student Code of Ethics

Each student enrolled in COB courses accepts personal responsibility to uphold and defend academic integrity and to promote an atmosphere in which all individuals may flourish. The COB Student Code of Ethics strives to set a standard of honest behavior that reflects well on students, the COB and West Texas A&M University. All students enrolled in business courses are expected to follow the explicit behaviors detailed in the Student Code of Ethics.

Code of Ethics

- Do not use notes, texts, solution manuals, or other aids for a quiz or exam without instructor authorization.
- Do not copy the work of others and/or allow others to view your answers or copy your work during a quiz, exam, or on homework assignments.
- Do not allow other parties to assist in the completion of your quiz, exam, homework, paper, or project when not permitted.
- Do not work with other students on projects or assignments without authorization from the course instructor.
- Properly cite and specifically credit the source of text, graphic, and web materials in papers, projects, or other assignments.
- Do not forge the signature of an instructor, advisor, dean, or another student.
- Provide truthful information for class absences when asking faculty for excused absences or for a make-up for a quiz, exam, or homework.
- Provide truthful information on your resume including work history, academic performance, leadership activities, and membership in student organizations.
- Respect the property, personal rights, and learning environment of all members of the academic community.
- Live up to the highest ethical standards in all academic and professional endeavors.

Students violating the Student Code of Ethics will be reported to the Dean's office and are subject to penalties described in the West Texas A&M University Code of Student Life, which may include suspension from the University. In addition, a violator of the Student Code of Ethics may become ineligible for participation in student organizations sponsored by the COB and for recognition for College academic honors, awards, and scholarships.

COB Student Resources Link

The COB has developed a *Student Resources* repository (e.g., APA writing style information, business core reviews, facilities, and other helpful supplements), which can be found on the [COB Website](#). Additionally, WTAMU has developed an Academic Study Skills information site to assist students (e.g., study habits, supplemental instruction, tutoring, writing and math skills), which can be found on the [WTAMU Website](#). For WTAMU Writing Center information (for students needing writing assistance, guidance, and feedback), please



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visit their [website](#).

COB Communications Component

The Paul and Virginia Engler College of Business Communication Component requires students to demonstrate knowledge of communication skills. The COB communications component is a requirement in the following courses: **ACCT 4373** (*Accounting Communications*), **BUSI 1304** (*Business Communication*), **BUSI 3320** (*Digital Collaboration and Communication*), **BUSI 4333** (*Cross-Cultural Issues in Business Communications*), **BUSI 4350** (*Current Issues in Management Communications*), **BUSI 4375** (*Healthcare Communication*), **BUSI 4380** (*Conflict Resolution and Negotiation*), **BUSI 4382** (*Emerging Media Law*), **CIDM 3320** (*Digital Collaboration and Communication*), **ECON 4370** (*Economics of Health Care*), **FIN 3350** (*Personal Financial Planning*), **FIN 4320** (*Investments*), **FIN 4321** (*Portfolio Theory*), **MGT 3335** (*Organizational Behavior*), **MGT 4380** (*Conflict Resolution and Negotiation*), or **MKT 3342** (*Consumer Behavior*).

Student Travel Opportunities

In multiple business courses, there may be opportunities for student travel supplemented by student fees. If you have an interest in such opportunities as they become available, please notify a faculty member.

Dropping/Repeating the Course

Should a student decide to drop the course, it is the student's responsibility to be aware of the final drop dates and adhere to the WTAMU Add/Drop policy. Any student participating in the course after the WTAMU posted drop date will be considered active and a grade will be administered at the end of the course for that student. Students are charged a fee for any course attempted for a third or subsequent time at WTAMU other than a non-degree credit developmental course or exempted courses.

Scholastic Dishonesty

It is the responsibility of students and instructors to help maintain scholastic integrity at the University by refusing to participate in or tolerate scholastic dishonesty. Commission of any of the following acts shall constitute scholastic dishonesty. This listing is not exclusive of any other acts that may reasonably be said to constitute scholastic dishonesty: acquiring or providing information for any assigned work or examination from any unauthorized source; informing any person or persons of the contents of any examination prior to the time the examination is given in subsequent sections of the course or as a makeup; plagiarism; submission of a paper or project that is substantially the same for two courses unless expressly authorized by the instructor to do so; submission of a paper or project prepared by another student as your own. You are responsible for being familiar with the University's Academic Integrity Code, as well as the COB Student Code of Ethics listed in this document.

Academic Integrity

All work must be completed individually unless otherwise stated. Commission of any of the following acts shall constitute scholastic dishonesty: acquiring or providing information for any assigned work or examination from any unauthorized source; informing any person or persons of the contents of any examination prior to the time the exam is given in any subsequent sections of the course or as a makeup; plagiarism; submission of a paper or project that is substantially the same for two courses unless expressly authorized by the instructor to do so. For more information, see the [Code of Student Life](#).



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Viewpoints/External Websites Disclaimer

The views expressed in this document, web-based course materials, and/or classroom presentations and discussions are those of the professor and do not necessarily represent the views of West Texas A&M University, its faculty and staff, or its students. Views expressed by students are likewise those of the person making such statements. It is understood and expected that each individual within this course will respect and allow individual difference of opinion.

Neither the professor, the COB, nor WTAMU are responsible for the content of external websites discussed in the classroom and/or linked to via online course materials, emails, message boards, or other means. Referred websites are for illustrative purposes only, and are neither warranted nor endorsed by the professor, COB, or WTAMU. Web pages change frequently, as does domain name ownership. While every effort is made to ensure proper referencing, it is possible that students may on occasion find materials to be objectionable for reasons beyond our control.

Acceptable Student Behavior

Classroom behavior should not interfere with the instructor's ability to conduct the class or the ability of other students to learn from the instructional program (Code of Student Life). Unacceptable or disruptive behavior will not be tolerated. Students engaging in unacceptable behavior may be instructed to leave the classroom. Inappropriate behavior may result in disciplinary action or referral to the University's Behavioral Intervention Team. This prohibition applies to all instructional forums, including electronic, classroom, labs, discussion groups, field trips, etc.

Technology Requirements

All technological requirements for the successful completion of this course are the responsibility of the student, including access to a working computer and or to a device with secure broadband Internet connection, data storage and retrieval, and state-of-the-art security. The student is responsible for all technological problems not related to WTAMU, including but not limited to equipment failures, power outages, and Internet breakdowns. Furthermore, students are responsible for all necessary technical and operational skills for completing this course, and for being familiar with WTClass (the Blackboard Learning System) both in a general sense and in a specific sense as pertaining to this course and any materials stored within. The professor is not responsible for any technical matters related to WTClass. Students must contact WTClass if they have problems accessing and/or using the WTClass environment.

Physical or Educational Access - ADA Statement

West Texas A&M University seeks to provide reasonable accommodations for all qualified persons with disabilities. This University will adhere to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations as required to afford equal educational opportunity. It is the student's responsibility to register with Student Disability Services (SDS) and to contact faculty members in a timely fashion to arrange for suitable accommodations. Contact Information: [Student Success Center](#), CC 106; phone 806-651-2335.



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Title IX Statement

West Texas A&M University is committed to providing a learning, working, and living environment that promotes personal integrity, civility, and mutual respect in an environment free of sexual misconduct and discrimination. Title IX makes it clear that violence and harassment based on sex and gender are Civil Rights offenses subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories such as race, national origin, etc. Harassment is not acceptable. If you or someone you know has been harassed or assaulted, you can find the appropriate resources

here:

- WTAMU Title IX Coordinator Richard Webb – Kilgore Research Center 147, **or** call 806.651.3199
- WTAMU Counseling Services – Classroom Center 116, **or** call 806.651.2340
- WTAMU Police Department – 806.651.2300, **or** dial 911
- 24-hour Crisis Hotline – 800.273.8255, **or** 806.359.6699, **or** 800.692.4039
- Visit the [Notalone](#) website

For more information, see the [Code of Student Life](#).

WT Attendance Policy for Core Curriculum Classes

For the purposes of learning assessment and strategic planning, all students enrolled in Core Curriculum or developmental courses at West Texas A&M University must swipe their Buff Gold cards through the card reader installed in the classroom/lab for each class/lab meeting.

Evacuation Statement

If you receive notice to evacuate the building, please evacuate promptly but in an orderly manner. Evacuation routes are posted in various locations indicating all exits, outside assemble area, location of fire extinguishers, fire alarm pull stations and emergency telephone numbers (651.5000 or 911). In the event an evacuation is necessary; evacuate immediately do not use elevators; take all personal belongings with you; report to outside assembly area and wait for further information; students needing assistance in the evacuation process should bring this to the attention of the instructor at the beginning of the semester.

Copyright

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** Syllabus template approved by COB Curriculum Committee May 2019. Annual review of the syllabus is a formal part of the COB continuous improvement process.*