

MSDS 6110: Immersion
MSDS 6120: Capstone A
MSDS 6130: Capstone B
Kick-Off Meeting

17 January 2018

Tonight's Outline

- Welcome
- Course Overview (What to Expect Now That You are Expecting)
- Honor Code
- Capstone Project

WELCOME!

Tonight's Outline

- Welcome
- **Course Overview (What to Expect)**
- Honor Code
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Immersion Learning Objectives

- Be **exposed** to **data science** – attend/view some or all seminars
- **Experience** your fellow students
- Begin **relationships** to last a lifetime
- **Attend** the Symposium on Data Science
- **Have FUN!**

Capstone: Learning Objectives

- **Understand** the basics of **ethical** theory
- Ability to discuss **ethical and privacy issues** in the use and collection of **large data sets**
- Ability to discuss the **impact** of large data analysis **on society**
- Develop **data analysis and team skills** through the completion of a group project.
- Develop **problem solving skills** for open ended and ill-defined problems
- Develop **oral and written communication skills** through presenting project results in a formal technical paper and a poster presentation.

Capstone A: Expectations for This Term

- Identify and **take significant strides towards completing a significant project**
- Provide **constructive feedback** on other projects through the Café Talks, wall posts, and other interactions
- Produce **draft** technical papers

Capstone B: Expectations for This Term

- **Complete a significant project** begun last term
- Provide **constructive feedback** on other projects through the Café Talks, paper peer review, wall posts and other interactions
- Produce a **publishable*** technical paper
- Participate** in the **Conference This Term**

*All papers will be submitted and published in the *SMU Data Science Review* journal

** Present your work in Lightning Talk and Poster presentations

Spring 2018 Schedule

- (IAB) Kickoff Webinar – 17 January (Week 2)
- (IAB) Weekly* Seminars – Begin 17 January (Week 2)
- (A) Group Formation – 31 January (Week 4)
- (A) Advisor Commitment – 31 January (Week 4)
- (A) Initial Problem/Plan – 31 January (Week 4)
- (IAB) Online Café Talk – 7 – 8 February (Week 5)
- (A) First Paper Draft – 14 March (Week 10)
- (B) Third Paper Draft – 21 March (Week 11)
- (IAB) Online Café Talk – 21 – 22 March (Week 11)
- (B) Peer Review – 4 April (Week 13)
- (B) Final Papers – 30 April (Week 16+)
- (B) Poster Presentation – 27 April (Week 16)
- (B) Lightning Presentation – 27 April (Week 16)
- (IB) Symposium on DS – 26 – 29 April (Week 16)

*No Seminar 24 January

Immersion: Assessments

[illegible]

Capstone A: Assessments

Component	Due Week	Percent Grade
Group Formation and Design Plan	Week 4	10%
Café Talks	Week 5, Week 11	30% (15% each)
First Paper Draft	Week 10	50%
Meeting with Advisor	6-16 times over term	10%

Capstone B: Assessments

Component	Due Week	Percent Grade
Second Paper Draft	Week 1*	5%
Café Talk	Week 5 or Week 11	15% (attend \geq one)
Third Paper Draft	Week 11	10%
Meeting with Advisor	6-16 times over term	10%
Peer Review	Week 13	10%
Poster Presentation	Week 16	10%
Lightning Presentation	Week 16	10%
Publishable Paper	Week 16	30%

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- **Honor Code**
- Capstone Project

Honor Code

- When you signed your letter of intent to enroll in the program, you initialed the following statement:
- “I have read and agree to abide by the SMU Honor Code available online at:
<http://www.smu.edu/StudentAffairs/StudentLife/StudentHandbook/HonorCode>”
- Please know that the Honor Code is taken very seriously.

Honor Code Violations*

- Academic Sabotage
- Cheating
- Fabrication
- Facilitating academic dishonesty
- Plagiarism

*<http://www.smu.edu/StudentAffairs/StudentLife/StudentHandbook/HonorCode>

Plagiarism

- Here is an example of plagiarism:

A regression is a statistical analysis assessing the association between two variables. It is used to find the relationship between two variables.

- The following is NOT plagiarism:

“A regression is a statistical analysis assessing the association between two variables. It is used to find the relationship between two variables.”¹

- The difference is in the punctuation and the attribution.
- Note that one can self-plagiarize. If you are using something that you wrote (e.g. a blog or a previously published article), please reference yourself.

¹(<https://www.easycalculation.com/statistics/learn-regression.php>).

Consequences

- Plagiarism, sabotage, fabrication, and cheating carry high penalties.
- Instructors may choose to fail the student on the assignment, give a 0 for the assignment, fail the student for the course, and/or bring the student before the Honor Council.
- Honor Council violations (if convicted) go on the student's transcript.

Consequences

- Plagiarism, sabotage, fabrication, and cheating carry the following penalties on the FIRST INSTANCE in this course:
 - Honor Council referral
 - Grade of F for the course

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Project Topic Examples

- **Corporate Activities** – what is impact of corporate activities such as scanning emails and monitoring their users on society?
- **Ethical Implications of Perfect Recall** – how do digital memories, both implanted and recorded, of imperfect data impact law and society?
- **Right to be Forgotten** – what does the right to be forgotten do to true memory and history?
- **Privacy Issues of a Cashless Society** – does a cashless society reduce our privacy?
- **The Return of HAL** – what are the implications of human intelligence in machines?

Project Reports

- **Use the Word template** provided on 2DS for all of your project paper submissions including your initial proposal.
- **Read** the Word template and **follow** its directions as appropriate in writing your paper.
- **Do NOT change** the formatting. Use the template format only.
- Your paper is expected to be publishable
 - High quality research, well written, reproducible results based on paper contents.
 - 15 page minimum in template format.
 - Pretty graphs and figures should be used.

OTHER QUESTIONS?