



**SYLLABUS**

**COLLEGE OF COMPUTING AND SOFTWARE ENGINEERING**

**DEPARTMENT OF INFORMATION TECHNOLOGY**  
IT 4793 (SECTION): Applied Data Driven Solutions

SEMESTER YEAR

Note

This syllabus provides a general guideline for the conduct of this course. However, deviations may be necessary and will be notified during the semester.

# Course Information

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Class meeting time: MEETING TIME

# Instructor

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**Name**: YOUR NAME

**E-mail**: YOUR EMAIL

**Office Location**: YOUR OFFICE

**Office Hours**: T 4PM – 5PM (in office) and M to TH 1PM – 2PM (Virtual MS Teams), and upon request and appointment.

**Course Communication**:

# KSU Email and MS Teams are the best way to reach the instructor. Avoid D2L email if possible.

# Students’ emails will be replied by the end of the next business day, excluding weekends and holidays.

# Put the course number in the subject line. Emails without proper subject line will not be replied.

# Avoid using personal email. Sensitive information (such as your grades) can ONLY be sent to D2L email or KSU email account.

# Course Description

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This course will apply data technologies and applications in a chosen application domain and expose students to real world problems and issues. Students will analyze, design, and develop practical and technical data driven solution in a chosen field, such as healthcare, finance, security, social media, academia, sports, and utilities.

**Prerequisites/Corequisites**:

* Official requirement: IT 3703 Intro to Data Analytics
* Recommended: IT 4713 Business Intelligence Systems

**Credit Hours:** 3-0-3

# Student Learning Outcomes

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By the end of this course, a student should be able to:

# Describe common data concepts, practices, and issues in a chosen domain.

# Analyze practical problems and requirements in a context (a company, organization, or other entities).

# Design and develop a technical solution driven by data technologies to address the problems identified.

# Course Materials and Resources

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## Official course website: D2L Brightspace <https://kennesaw.view.usg.edu>

* Refer to this website for all official teaching and learning materials and activities.
* It’s important to know how to use this learning management system for: following learning modules, submitting assignments, checking grades and feedback, downloading files, participating discussion boards, etc.
* Please check the course site regularly for important announcements and other issues.

## Learning materials

* Required textbook: none. There is no textbook assigned. All readings are assigned in each learning module.
* This course is part of the Affordable Learning Georgia Textbook Transformation Grants, which aim to lower the cost of learning materials. All materials presented on this site are open to the public via <https://facultyweb.kennesaw.edu/spouriye/alg25/D2LExport_2775138_IT4793_swu10_202581015.zip>

## Required software/hardware

* Tableau Desktop/Prep, free for students <http://www.tableau.com/academic/students>
* Other software: software that can open Word/Power Point/PDF files and ZIP files.

## Other readings and resources

* Other readings and resources will be suggested and posted for each week (module). Check D2L regularly.

# Technology Requirements:

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* This class uses D2L as hosting site. Run a system check to ensure your computer work with D2L. Check out UITS D2L training: <http://uits.kennesaw.edu/support/d2ltraining.php> .
* Internet Connection. A high-speed Internet connection such as DSL or cable Internet access is highly recommended. You may also use computer labs on campus to complete the coursework.

# Course Schedule

The course schedule is tentative and is subject to change. Please use D2L course calendar as accurate due dates. *Academic calendar can be found at:* [*https://registrar.kennesaw.edu/academic-calendars/index.php*](https://registrar.kennesaw.edu/academic-calendars/index.php)

The course is project based and weekly work varies depending on the project and student progress. The timing and topics listed offer a general guidance but also keep flexibility. Topics may overlap in some weeks.

1. Introduction of the domain: key businesses, issues, processes, etc. (1-2 weeks)
2. Requirements analysis and problem identification (2-3 weeks)
3. Analyze, research, and training on technologies and tools for the solution (2-4 weeks)
4. Development and prototyping using the selected tools (6 to 8 weeks)
5. Final Presentation (1 to 2 weeks)
6. Conclusion: report writing (1 week)

Course Calendar (tentative)

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| Week | Topic | Assignment |
| 1 | Module1: Introduction | Disc#1 AS#1 |
| 2 | Module2: Problem Identification | Disc#2 AS#2 |
| 3 | AS#3 |
| 4 | AS#4 |
| 5 | Module3: Analyze, research, and training on technologies and tools | AS#5 |
| 6 | Disc#3 |
| 7 | AS#6 |
| 8 | AS#7 |
| 9 | AS#8 |
| 10 | Module4: Development and prototyping | Disc#4 |
| 11 | AS#9 |
| 12 | Disc#5 |
| 13 | AS#10 |
| 14 | Presentation | Final Presentation |
| 15 | Fall Break |
| 16 | Presentation |
| 17 | Review | Conclusion |

# Course Requirements and Assignment

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## Grading Policies

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| --- | --- |
| Assignment (10) | 50% |
| Discussions (5) | 15% |
| Final Project | 35% |
| Total | 100% |

A: [90, 100]; B: [80, 89]; C: [70, 79]; D: [60, 69]; F: [0, 59];

Guides and more details about all items will be provided in the content section in D2L Brightspace. Generally, all grades should be available within 10 days from the due date.

# Course Policies

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# Course Attendance Policy

* For on campus/hybrid section, students are expected to come to each class on time. Stay during the whole class period.
* For both campus/hybrid and online section, students’ attendance is also measured by how often a student login in D2L course website, completion status/time for items in the content section, as well as on-time completion of assignments and labs.

# Grading Items Turnaround Time

* The grades for the quizzes and exams will be available 3 days after the end date
* The grades for labs/assignments/projects will be available in 10 days after the due date

# Assignments & Exam Policy

* All assignments **MUST** be submitted through D2L (<https://kennesaw.view.usg.edu/> ) course website by the deadline specified in course calendar. Email submission will **NOT** be accepted. Any late assignment is subject to 20% penalty. Any assignment that is more than a week is subject to more penalty.
* All quizzes and exams MUST be completed on D2L website by the deadline specified in course calendar. The quizzes exams can’t be opened/submitted after the deadline.
* If you must miss an exam due to illness, you must e-mail or call the instructor before the scheduled time. Failure to notify the instructor prior to the scheduled time will produce an automatic zero for the exam. NO makeup test except for emergencies with proof (e.g. doctor’s slip).

**Student Responsibility**

For this class, you are expected to spend seven to eight hours each week on coursework:

* Check KSU email regularly;
* Login D2L course website frequently to access the course material (at least every other day);
* Follow the weekly study guide in the learning module;
* Study the assigned material such as virtual lectures, textbook chapters and the PowerPoint slides;
* Complete assigned quiz/assignment/discussion/project on time.

**Tips for Effective Online Learning**

For an online class, students can really enjoy the benefits of learning at you own pace and at the place of your choice. Below are some tips for effective online learning.

* *Check D2L course website frequently*. It’s recommended that students should login D2L course site **AT LEAST** every other day. Always be aware of current status of the course. Take advantage of the posted learning material such as recorded lectures.
* *Work with the instructor closely*. If you have any question, contact the instructor immediately. You can either email or text me and your message is guaranteed to be replied within 12 hours.
* *Start your work early*. If you can start a task early, don’t start late. Assuming you spend the same amount of time completing the task, starting later will be much more stressful than starting early. Never start until the last minute! You’ll have no turnaround time if you need help or something happens.
* *Keep up with the work*. Don’t fall behind. If you do, contact the instructor immediately for what you need to do. The instructor may also contact you if he is concerned. Respond to the instructor’s inquiry promptly.

**Class Communication Rules**

In any classroom setting there are communication rules in place that encourage students to respect others and their opinions. In an online environment, the do's and don'ts of online communication are referred to as **Netiquette**. As a student in my course you should:

* Be sensitive and reflective to what others are saying.
* **Avoid typing in all capitals** because it is difficult to read and is considered the electronic version of 'shouting'.
* Don't flame - These are outbursts of extreme emotion or opinion.
* Think before you hit the post (enter/reply) button. You can't take it back! Don't use offensive language.
* Use clear subject lines.
* Don't use abbreviations or acronyms unless the entire class knows them. Be forgiving. Anyone can make a mistake.
* Keep the dialog collegial and professional, humor is difficult to convey in an online environment.
* Always **assume good intent** and **respond accordingly**. If you are unsure of or annoyed by a message, wait 24 hours before responding.

**Institutional Policies**

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* [Federal, BOR, & KSU Course Syllabus Policies](https://cia.kennesaw.edu/instructional-resources/syllabus-policy.php)
* [Academic Integrity Statement](http://scai.kennesaw.edu/codes.php)
  + Examples of violation of academic integrity: 1) copy from others or from Internet; 2) allow others to copy your work; 3) use other’s help or help other in completing the quizzes or exams.
  + The first violation of academic integrity, the student will immediately receive 0 for the associated grading item. For the 2nd violation, the student will receive a fail grade for this course.

# Student Resources

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This link contains information on help and resources available to students: [KSU Student Resources for Course Syllabus](https://curriculum.kennesaw.edu/resources/ksu_student_resources_for_course_syllabus.php)